2013 THIRD ANNUAL REPORT
MONITORED NATURAL ATTENUATION PILOT STUDY
FOR OPERABLE UNIT 1 (OU-1) OF THE
NORTH PENN AREA 5 SUPERFUND SITE

April 1, 2014

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1.0 INTRODUCTION

On behalf of BAE Systems Information and Electronic Systems Integration Inc. (BAE Systems), Environmental Alliance, Inc. (Alliance) is submitting this Annual Report for the Monitored Natural Attenuation (MNA) pilot study for Operable Unit No. 1 (OU-1) of the North Penn Area 5 Superfund Site in Colmar, Montgomery County, Pennsylvania (the "Site"). BAE Systems initiated this work pursuant to the *MNA Monitoring Plan* ("MNA Plan") transmitted to EPA on September 23, 2010 (Alliance, 2010b). While the MNA pilot study is expected to operate for several years, the MNA Plan provided for the submission of annual reports to document the monitoring results.

The results of the first three years of the pilot study support its continuation based on the following:

1. Deactivation of the Pump and Treat ("P&T") system has not caused any adverse effects while the groundwater conditions return to non-pumping equilibrium
2. Site conditions are generally becoming more conducive to anaerobic degradation, which is one of the natural attenuation processes along with physical processes such as dilution and dispersion. The consistent presence of 1,2-dichloroethene ("1,2-DCE"), vinyl chloride ("VC"), and ethene demonstrate anaerobic degradation of trichloroethene ("TCE") is taking place in the capture zone of the former P&T system
3. TCE concentrations in the former P&T system recovery wells (i.e., Recovery Well, RI-20S and RW-1) have generally remained stable since system shutdown, effectively showing that the maximum range of TCE concentrations in these wells is limited.
4. The limited fluctuations in TCE concentrations indicates that residual TCE source material is not present in the vicinity of:
   (i) the former P&T system recovery wells (i.e., Recovery Well, RI-20S and RW-1)
   (ii) the monitoring wells within the capture zone of former P&T system (i.e., MWs A-2, A-3, A-4, A-5, A-6, A-7, A-8, A-9, A-11, A-12, A-13, A-14, A-17,

A-18, PW-1, PW-2, PW-3, PW-4, PW-5, PW-6A, PW-6B, PW-7A, PW-7B, PW-10A, PW-10B, PW-13, PW-14, RI-20D, RW-2, RW-3, and W-1):

(iii) the interior Site monitoring wells, outside the former capture zone (i.e., MWs: PW-8A, PW-8B, PW-9A, PW-9B ,W-14, and W-16); or

(iv) the monitoring wells along the property boundary (i.e., MWs: W-10, W-12, W-13, W-17, PW-11, PW-12, PW-13, PW-14, FOX MW-1, FOX MW-2, and FOX MW-5).

Based on these data, and as further described in the following sections, the MNA pilot study will continue to operate.

1.1 Site Background & History

The history of the various investigations and remedial actions completed at the Site has been presented previously in numerous documents (most recently, the January 2009 Pre-Design Investigation ("PDI") Report (Alliance, 2009). The following is a brief summary of the historic response actions performed at the Site:

- Groundwater contamination was first discovered in OU-1 in 1979 by American Electronics Laboratories ("AEL").
- AEL installed monitoring wells to investigate the groundwater quality in OU-1 in 1980. The primary groundwater contaminant identified at the Site has been TCE, although other chlorinated volatile organic compounds ("VOCs") have also been reported in groundwater.
- AEL removed a waste solvent underground storage tank ("UST") in June of 1980, which is considered the source area of the VOCs identified in groundwater in the vicinity of the former UST.
- AEL signed a consent agreement with PADER in 1981 to investigate and begin remedial actions at the Site.
- AEL began the batch treatment of impacted groundwater in 1981.

- AEL completed the soil investigation and source soil remediation work in 1982, as documented in the PDI Report. This action removed all source soils. No residual source material remains within OU-1.
- AEL installed the groundwater Recovery Well in 1983.
- AEL initiated the groundwater pump and treat program in 1986, which operated for approximately 24 years, until the initiation of this MNA Pilot Test.
- The highest TCE concentration ever reported in groundwater within OU-1 was observed in monitoring well W-1 in 1980 (60,200 ug/l, duplicate sample concentration reported at 70,700). This well is located in close proximity to the former UST that was removed in 1980 and the TCE-contaminated soils that were excavated and treated in 1982. By the time AEL commenced groundwater treatment in 1986, the TCE concentration in this well was reduced by 99.7% to 180 ug/l. The TCE concentration in W-1 groundwater was further reduced to 41 ug/l in August of 2013 or approximately 99.93% of its maximum reported value of 60,200 ug/L in 1980 (See Table 2 in this report).
- BAE Systems voluntarily expanded the pump and treat system in 2004 by adding two additional pumping wells (RW-1 and RI-20S), which operated for approximately 5 years, until the initiation of this MNA Pilot Test.
- In 2008, BAE Systems established and recorded an Environmental Covenant that restricted future groundwater use before it sold the property on which OU-1 is located. This covenant was reviewed and approved by EPA before it was recorded.
- BAE Systems completed a PDI in January 2009 pursuant to a Consent Order and Agreement[1] with EPA Region III as required by the 2004 Record of Decision ("ROD") for OU-1 (EPA, 2004a). Among other things, the PDI documented that the geometric mean concentration of TCE in bedrock groundwater within OU-1 was 29 to 31 ug/l (for the wells that reported TCE in excess of the MCL of 5 ug/L). This calculated mean concentration does not include approximately 24 other wells that reported TCE concentrations less than or equal to 5 ug/l. If all of the OU-1 bedrock groundwater TCE data from the PDI are considered, the geometric mean of TCE during the PDI was between 16 and 17 ug/L. Further, the PDI documented the absence of any residual

[1] Alliance and BAE Systems believe that all conditions of the Consent Order and Agreement have been met, as has been communicated in the monthly progress reports.

source material at the Site and in particular documented the absence of any residual dense non-aqueous phase liquid ("DNAPL") in the subsurface. The PDI also evaluated various potential remedies for the Site and ultimately recommended the implementation of an MNA remedy.

- BAE Systems voluntarily installed four additional monitoring wells (PW-11, PW-12, PW-13, and PW-14) along the property boundary of BAE Systems' former property in 2009.
- In January 2010, BAE Systems submitted the *Evaluation of the Use of Monitored Natural Attenuation for Operable Unit 1 of the North Penn Area 5 Superfund Site* ("*MNA Report*"; Alliance, January 26, 2010) to EPA. This report reviewed the historical data for the Site, which spanned approximately 30 years, and evaluated the rate of improvement in groundwater quality for monitoring wells within the capture zone of the pumping wells versus wells that were outside the capture zone of the pumping wells. This evaluation documented that the rate of reduction in TCE concentrations was faster for the groundwater outside the capture zone of the P&T system pumping wells than for groundwater within the capture zone of these pumping wells. Although it was limited to an analysis of groundwater TCE trends, the MNA Report concluded that a long-term (at least five years) MNA pilot study was appropriate to start to quantify the groundwater TCE attenuation rates and to document the mechanisms responsible for TCE attenuation, including physical processes such as dilution and dispersion and biochemical processes such as anaerobic reduction.

Based on the above analysis, BAE Systems decided to initiate the MNA Pilot Study. As described further in the MNA Plan and summarized below, the MNA Pilot Study consists of deactivating the P&T system and completing groundwater monitoring activities at the Site. EPA representatives stated that EPA did not object to this study and the Pennsylvania Department of Environmental Protection (DEP) agreed that BAE Systems could deactivate the P&T system to conduct this study. It is expected that it will take several more years to collect enough data to understand and quantify how the MNA processes will proceed at the Site after the P&T system was deactivated.

The first year of the MNA Plan was completed in three phases:

- Phase I consisted of background monitoring to establish pre-P&T deactivation conditions prior to shutting down the P&T system. This was a one-time monitoring event performed in August 2010.
- Phase II began after deactivating the P&T system (on August 16, 2010) and consisted of periodic monitoring events to document how the Site responded to the P&T system shutdown. This phase lasted for the three months including and following the P&T system deactivation (August, September, and October 2010).
- Phase III consisted of routine groundwater monitoring on a quarterly basis and a comprehensive annual monitoring event.

The second year of the MNA Plan was completed between September 2011 and August 2012 and consisted of quarterly (November 2011, February 2012, and May 2012) and annual (August 2012) monitoring of groundwater quality as well as physical parameters such as groundwater elevations.

The third year of the MNA Plan was completed between September 2012 and August 2013 and consisted of quarterly (November 2012, February 2013, and May 2013) and annual (August 2013) monitoring of groundwater quality as well as physical parameters such as groundwater elevations.

The primary objective of the MNA pilot study is to track the changes in concentrations of TCE, its daughter products and other VOCs in OU-1 groundwater. Additionally the MNA pilot study monitors geochemical indicators of transformation processes (e.g., oxidation-reduction potential, dissolved oxygen, pH, nitrate, ferrous iron, sulfate, methane, ethane, and ethene) and hydrogeologic parameters (e.g., elevation of ground water in monitoring wells and local precipitation data). Several lines of data were and are being collected to track the conditions in the aquifer along with the concentration of VOCs. Specifically, the following data is being generated by the MNA pilot study:

- Groundwater elevation (hydraulic head) data was collected from certain monitoring wells to evaluate changes in groundwater elevation (rise) following deactivation of the P&T system. Groundwater elevation data are plotted to create potentiometric surface maps to evaluate changes in hydraulic gradients and groundwater flow patterns resulting from returning the aquifer to a natural, non-pumping condition. Precipitation, hydraulic head, and stream flow data were gathered from publicly-available sources (e.g., U.S. Geological Survey) to provide a reference for the changes in groundwater elevations and groundwater quality data from the Site.
- Groundwater quality data (i.e., the concentration of VOCs in groundwater) from certain monitoring wells in OU-1 was collected to record any changes in groundwater quality following deactivation of the P&T system. In addition to sampling wells within OU-1, certain wells within OU-2 have also been monitored (and reported on the enclosed data tables), however the sampling results are not discussed as part of this MNA study.
- Data used to evaluate the potential occurrence of natural biodegradation of TCE was collected from certain wells to monitor for the presence of biologically-facilitated remediation.
- Geochemical data from certain monitoring wells was collected to track geochemical changes in the aquifer to identify when the aquifer conditions are no longer affected by the operation of the P&T system (i.e., to document the return of the aquifer to natural, non-pumping conditions) and to document natural changes in the aquifer due to the hydrologic cycle (e.g., periods of greater and lesser recharge from precipitation events).

2.0 MNA MONITORING METHODS

2.1 Field Monitoring and Sampling Procedures

Unless otherwise noted in this report, all field sampling and laboratory analytical methods utilized in the MNA Monitoring Program followed the EPA-approved *Sampling and Analysis Plan* (SAP; Alliance, August 10, 2006a) that EPA approved for the PDI. For all sampling events, all non-single-use (i.e., disposable) down-hole sampling and monitoring equipment was decontaminated prior to being used in a well. Decontamination procedures were carried out in a designated decontamination area lined with plastic and capable of collecting small amounts of water that might be spilled during the decontamination procedures. Decontamination procedures included scrubbing equipment with a low phosphate detergent and tap water wash, followed by a tap water rinse and light brushing, followed by a distilled water rinse. Pump and associated tubing decontamination included purging at least a gallon of the detergent wash and tap water rinse through the pump and associated tubing. All decontamination water was collected in a mobile storage tank and subsequently treated as necessary through the Facility air stripping tower consistent with the National Pollutant Discharge Elimination System ("NPDES") permit.

A full round of liquid levels were completed at Site wells prior to collecting groundwater samples. For each water level measurement/reading, a decontaminated electric water level meter was used to gauge the depth of the static water level at each well relative to the indicated reference (survey) mark. A measurement of down-hole dissolved oxygen (DO) was collected using a decontaminated DO probe.

Once the static liquid levels and DO readings were collected, groundwater sampling proceeded using the techniques specified in the SAP. A predetermined volume of water was purged from each well at rate of approximately one to two gallons per minute. During purging, the water-quality parameters temperature, pH, turbidity, conductivity, oxygen-reduction potential (ORP), and DO were collected as specified in the SAP. Field analysis of ferrous iron was completed at the end of the purging process. The parameters temperature, pH and DO typically stabilize to within 10% of the previous reading once the predetermined purge volume is reached.

Groundwater generated during the purging process was pumped from the well directly into a mobile storage tank which was pumped out and treated through the Facility air stripper tower as needed, consistent with the NPDES permit.

Once the purging process was satisfactorily completed, the pumping rate was lowered to 100 ml/min and a groundwater sample was collected. Purging and sampling methods used are documented in the field data sheets presented in Appendix I and are consistent with historical sampling procedures for the Site.

Fresh nitrile gloves were donned prior to sampling. Groundwater samples were collected in laboratory supplied bottle ware, labeled, and securely stored in an iced cooler at 4° Celsius along with accompanying quality assurance samples. Quality assurance samples include a minimum of one rinsate blank per sampling event, one field blank per sampling event, one duplicate sample per 20 samples, and one VOC trip blank per cooler.

Field monitoring data sheets are included for reference in Appendix I. Chain-of-custody documentation is included in the laboratory reports in Appendix II.

2.2 MNA Monitoring Wells

For the MNA monitoring program, various monitoring wells in OU-1 and OU-2 were grouped into three general sampling categories as they related to specific monitoring events or specific monitoring data. The three original categories are listed below along with the corresponding wells. Monitoring wells that have been added to the different lists since submittal of the September 2010 Work Plan are underlined; wells that have been removed are crossed out.

All Monitoring Wells ("Long List"): [Original number of wells = 54; Current number of wells = 62]

- OU-1: [W-1, W-10, W-12, W-14, W-16, Recovery Well, RW-1, RW-2, RW-3, RI-20S, RI-20D, PW-1, PW-2, PW-3, PW-4, PW-5, PW-6A, PW-6B, PW-7A, PW-7B, PW-8A,

PW-8B, PW-9A, PW-9B, PW-10A, PW-10B, PW-11, PW-12, PW-13, PW-14, A-2, A-3, A-4, A-5, A-6, A-7, A-8, A-9, A-11, A-12, A-13, A-14, ~~A-16~~, A-17, and A-18]

- Off-site: [Fox MW-1, Fox MW-2, Fox MW-5, W-13, and W-17]
- OU-2: [W-3, W-4, RI-19S, RI-19D, RI-30, RI-31, RW-4S, RW-4I, RW-4D, RW-5S, RW-5I, RW-5D, and W-8]

Key Monitoring Wells ("Short List"): [Original number of wells = 22; Current number of wells = 28]

- OU-1: [W-1, W-10, W-12, W-14, W-16, Recovery Well, RW-1, RI-20S, PW-1, PW-2, PW-8A, PW-8B, PW-9A, PW-9B, PW-10A, PW-10B, PW-11, PW-12, PW-13, PW-14]
- Off-site: [Fox MW-5]
- OU-2: [W-3, W-4, RI-19S,RI-19D, RI-30, RI-31, W-8]

Bioremediation Monitoring Wells: [Original number of wells = 7; Current number of wells = 9*]

- OU-1: [W-1, PW-9A*, PW-9B*, PW-10A, RI-20S, RW-1, PW-8A, PW-11, W-16]
  * PW-9A and PW-9B are sampled for low level VC only, and are not sampled for the full suite of analyses the other Bioremediation Monitoring Wells are.

Well A-2, which was part of the original "Long List" of wells but could not be found during previous reporting periods, was located during the August 2013 sampling event and has been re-added to the sampling scope. Well A-16 has been abandoned and was thus removed from the sampling scope. OU-1 monitoring well locations are shown on Figure 1. OU-2 monitoring well locations are shown on Figure 2.

2.3 Monitoring Events

EPA has defined the term monitored natural attenuation as referring to the reliance on natural attenuation processes to achieve site-specific remediation objectives within a time frame that is

reasonable compared to that offered by other more active methods. The natural attenuation processes that are at work in an MNA program "include a variety of physical, chemical, or biological processes that, under favorable conditions, act without human intervention to reduce the mass, toxicity, mobility, volume, or concentration of contaminants in soil or groundwater" (Office of Solid Waste and Emergency Response, 1999). The MNA monitoring completed during the third year of the pilot test consisted of a series of quarterly monitoring events (November 2012, February 2013, and May 2013) and an annual monitoring event (August 2013). Activities conducted during each of the events are summarized below.

2.3.1 Quarterly Monitoring Events

Quarterly monitoring at the site was conducted in November 2012, February 2013, and May 2013 during the third year of the pilot test. During the quarterly groundwater sampling events, the following activities were performed:

- Depth-to-water was gauged in the Long List monitoring wells to evaluate hydraulic gradients.
- The Short List monitoring wells were sampled for analysis of:
  - VOCs.
  - Field geochemical parameters: pH, temperature, downhole DO, ORP, ferrous iron, specific conductivity, and turbidity.
- The Bioremediation monitoring wells were sampled for analysis of:
  - Low-level VC.

As described above in Section 2.2, since implementation of the MNA study, six wells have been added to the quarterly sampling list (short list). This includes addition of two wells to the Bioremediation Monitoring Well List (see note in Section 2.2).

2.3.2 Annual event

During the annual monitoring event in August 2013, the following activities were performed:

- Depth-to-water was gauged in the Long List monitoring wells to evaluate hydraulic gradients.
- The Long List monitoring wells were sampled for analysis of:
  - VOCs.
  - Field geochemical parameters: pH, temperature, downhole DO, ORP, ferrous iron, specific conductivity, and turbidity.
- The bioremediation monitoring wells (as specified in Section 2.2) were additionally sampled for analysis of:
  - Ethene, ethane, and methane.
  - Total iron, sulfate, sulfide, nitrate, nitrite, alkalinity, total organic carbon (TOC), and dissolved organic carbon (DOC).
  - Volatile fatty acids (VFAs): lactate, pyruvate, acetate, propionate, formate, and butyrate.
  - Low-level VC.

Since implementation of the MNA study, nine wells have been added to the annual sampling list (Long List) and two wells have been added to the Bioremediation Monitoring Well List (see note in Section 2.2).

For the quarterly and annual monitoring events, VOCs samples were analyzed by Lancaster Laboratories, Inc. (LLI) of Lancaster, Pennsylvania by Method 8260B. Low-level VC samples were analyzed by LLI by Method 8260B Selective Ion Monitoring (SIM). Ethene, ethane, and methane were analyzed by Vapor Tech of Valencia, Pennsylvania by Method RSK-175. Total iron samples were analyzed by LLI via Method 6010B. Ferrous iron was field analyzed using a Hach color-wheel field kit and/or a Hach DR890 colorimeter. Sulfate was analyzed by LLI via Method 300.0. Sulfide was analyzed by LLI via Method SM4500-S2. Nitrate and Nitrite were analyzed by LLI via Method 353.2. Total Alkalinity and Phenolphthalein Alkalinity were

analyzed by LLI via Method SM2320B. TOC was analyzed by LLI via Method SM5310C. DOC was analyzed by LLI via Method 415.1 modified. VFAs were analyzed by Sirem Laboratories of Guelph, Ontario, Canada by Ion Chromatography Sirem SOP #63. Laboratory certificates of analysis and chains-of-custody are included in Appendix II.

3.0 MNA MONITORING RESULTS

3.1 Groundwater Elevation Monitoring Results

3.1.1 Groundwater Elevation Trends

Groundwater elevation monitoring data are presented on Table 1. A hydrograph (Figure 3) of nearby U.S. Geological Survey (USGS) Montgomery County, Pennsylvania monitoring well MG-917 shows a general increase in groundwater elevations with increased precipitation as shown on Figure 4 and a corresponding decrease in groundwater elevations with reduced precipitation. Similarly, a graph (Figure 5) plotting measured stream flow at the USGS gauging station on Neshaminy Creek near Rushland, Pennsylvania (station #01464750) over the monitoring period shows a general increase in stream flow in conjunction with increased precipitation. Generally, as shown on the hydrographs for select Short List monitoring wells (Figures 6A through 6Y), the site monitoring wells showed a similar trend, with groundwater elevations increasing in response to precipitation/recharge events and declining during dry periods. Additionally and as expected, P&T system recovery wells (RI-20S, RW-1, and Recovery Well) and site monitoring wells near the system recovery wells (e.g., W-1, PW-1, and PW-2) showed a short term rapid rebound in groundwater elevations as a result of deactivating the P&T system in August 2010.

3.1.2 Hydraulic Gradients

Figure 7 shows the shallow bedrock groundwater elevation contours during August 2010, while the P&T system was still active with Recovery Well and RI-20S pumping. Due to a mechanical problem with the pump, RW-1 was only pumping at approximately 0.17 gpm during August 2010. This map shows an overall hydraulic gradient to the northwest and a cone of depression surrounding Recovery Well. Previous contour maps generated during P&T system operation demonstrate the estimated capture zones for pumping wells Recovery Well, RW-1, and RI-20S.

Shallow bedrock groundwater contours during the quarterly and annual monitoring events during the third year of the MNA pilot test are illustrated on Figure 8 (November 2012), Figure 9 (February 2013), Figure 10 (May 2013), and Figure 11 (August 2013). All four groundwater contour maps show an overall hydraulic gradient to the northwest and the absence of a cone of depression (no pumping occurring) surrounding the P&T system wells and a steeper hydraulic gradient than when the P&T system was active. These indicate, as expected, the return of the aquifer to a natural hydraulic gradient and are consistent with gradients observed during the first and second year of MNA monitoring. However, even though the hydraulic gradient is to the northwest, groundwater flow and contaminant transport are dominated by the secondary porosity of the master joints and fractures, which are oriented in the northeast to southwest direction. See the PDI for a more detailed discussion.

3.2 Groundwater TCE Monitoring Results

The results of the groundwater VOC sampling events during the first three years of the MNA pilot study (August 2010 through August 2013) are summarized in the Sections below. The monitoring wells were evaluated with respect to four categories: former P&T system extraction wells, monitoring wells within the former P&T capture zone, monitoring wells outside the former P&T capture zone, and property boundary/off-site wells. Note that there is some overlap to these categories.

The results of the groundwater VOCs sampling for the wells that are monitored as part of the MNA pilot study are summarized on Table 2. All available historical analytical data for these wells is included for reference. Groundwater VOCs data for A-series (regolith) wells are plotted on Figure 12 (August 2010/ pre-P&T system deactivation) and Figure 13 (August 2013). Groundwater VOC data for the bedrock wells are plotted on Figure 14 (August 2010/pre-P&T system deactivation), Figure 15 (November 2012), Figure 16 (February 2013), Figure 17 (May 2013), and Figure 18 (August 2013). Groundwater TCE concentrations over time for the original Short List monitoring wells plus PW-9A, PW-9B and W-16 are plotted along with the groundwater elevation hydrographs on Figures 6A through 6Y (the Short List monitoring wells

are plotted since these wells are sampled on a quarterly basis and thus have the most data available for presentation purposes).

Data from all site wells over the past three years of MNA support the PDI conclusions that not only is there no direct or inferable evidence of DNAPL at the Site but there continues to be no evidence or indication of residual source material present (as defined by EPA[2]). Typically, aqueous concentrations near 1% of the aqueous solubility of TCE (1,100,000 ug/L) are the cutoff for the inference that TCE DNAPL is present at a Site (Cohen & Mercer, 1993). In comparison, TCE concentrations in OU-1 are nowhere near this criteria and only range from the tens to low hundred ug/l (i.e., approximately 1/1000th to 1/100th of a percent of TCE's aqueous solubility). Considering OU-1 groundwater concentrations are two to three orders of magnitude below the 1% cutoff mark described in the EPA funded Cohen and Mercer text, there is no evidence that DNAPL is present at the Site. The following summarizes groundwater TCE results over the first three years of MNA monitoring following deactivation of the P&T system.

3.2.1 Former P&T System Extraction Wells

The former P&T system consisted of three extraction wells: Recovery Well, RW-1, and RI-20S. Groundwater TCE results from the first three years (after the August 16, 2010 system shutdown) of the MNA pilot study for the former groundwater recovery wells is summarized below:

- TCE concentrations in Recovery Well during the first three years of the MNA pilot study were observed to remain generally stable and/or slightly increasing, ranging from 120 ug/L (May 2013) to 30 ug/L (May 2011). The magnitude and fluctuations of the TCE concentrations do not indicate residual source material[2] or DNAPL in the vicinity of the

[2] In the MNA Guidance Document (EPA 1999), EPA states "Source material is defined as material that includes or contains hazardous substances, pollutants or contaminants that act as a reservoir [either stationary or mobile] for migration of contamination to the groundwater, to surface water, to air, [or other environmental media] or act as a source for direct exposure. Contaminated groundwater generally is not considered to be a source material although non-aqueous phase liquids (NAPLS [occurring either as residual- or free-phase]) may be viewed as source materials." (footnote 6 of MNA Guidance)

well. Historic TCE concentrations for the Recovery Well are presented graphically on Figure 6F.

- TCE concentrations in RW-1 during the first three years of the MNA pilot study were observed to remain stable and/or slightly increasing ranging from 85 ug/L (May 2013) to 55 ug/L (November 2010). The magnitude of fluctuations in the TCE concentrations does not indicate residual source material in the vicinity of the well and these fluctuations are within the historic range for this well prior to deactivation of the P&T System. TCE concentrations for RW-1 are presented graphically on Figure 6G.
- TCE concentrations at RI-20S during the first three years of the MNA pilot study were observed to remain stable following deactivation of the P&T system, ranging from 170 ug/L (August 2011 and May 2013) to 130 ug/L (May 2012). The magnitude of fluctuations in the TCE concentrations does not indicate residual source material in the vicinity of the well. Results from RI-20S are presented graphically on Figure 6H.

3.2.2 Monitoring Wells within the Former P&T Capture Zone

Based on the analysis presented in the MNA Report (Alliance, 2010), the following list of wells are considered to be within the former P&T capture zone as illustrated on Figure 19 and Figure 20:, A-2, A-3, A-4, A-5, A-6, A-7, A-8, A-9, A-11, A-12, A-13, A-14, A-17, A-18, PW-1, PW-2, PW-3, PW-4, PW-5, PW-6A, PW-6B, PW-7A, PW-7B, PW-10A, PW-10B, PW-13, PW-14, RI-20D, RW-2, RW-3, and W-1. Note that PW-13 and PW-14 are also discussed as property line wells in Section 3.2.4. Groundwater analytical results from the first three years (after the August 16, 2010 system shutdown) of monitoring for the MNA pilot study are summarized below:

- Well W-1 (Figure 6A) is the well that historically had the highest groundwater TCE concentration (60,200 ug/l in February 1980). This well is located 12 feet from Recovery Well. TCE concentrations at W-1 during the first three years of the MNA pilot study were observed to remain stable following deactivation of the P&T system, ranging from 68 ug/L (November 2011 and February 2012) to 14 ug/L (February 2011 and August 2012). The magnitude of fluctuations in the TCE concentrations is consistent with the

data from this well when the pump and treat system was active and does not indicate residual source material is present in the vicinity of the well.

- The A series wells (A-2, A-3, A-4, A-5, A-6, A-7, A-8, A-9, A-11, A-12, A-13, A-14, A-17, and A-18) represent groundwater quality within the shallow overburden aquifer. These wells are generally sampled on an annual basis as part of the MNA pilot study (A-3, A-12, A-13, and A-14 have also been sampled as part of the NPDES permit). All of the A series wells except wells A-7, A-11, A-12, A-13, and A-14 have reported TCE concentrations less than or equal to 5 ug/L during the first three years of the MNA Pilot Study. Wells A-11, A-12, A-13, and A-14 are located within approximately 60 feet of each other and are therefore representative of the same area. These four wells have reported stable concentrations of TCE, ranging from 28 ug/l (A-13 in August 2012 and 2013) to < 1 ug/L (A-12 in February 2012) during the first three years of the MNA pilot study. Well A-7 is located approximately 25 feet from wells A-14 and A-6 and approximately 50-feet southwest of W-1. A-7 is sampled annually and reported concentrations of TCE ranging from <1 ug/L (November 2010 and August 2011) to 11 ug/L (August 2013) during the first three years of the MNA pilot study.
- PW-1 (Figure 6I), PW-2 (Figure 6J), PW-3, PW-4, PW-5, PW-6A, PW-6B, PW-7A, PW-7B, PW-10A (Figure 6O), PW-10B (Figure 6P), PW-13 (Figure 6S) and PW-14 (Figure 6T) are relatively new monitoring wells installed within the former capture zone of the deactivated P&T system. These wells have reported generally stable concentrations of TCE with the exception of PW-13, which has shown a very gradual, low magnitude increase, which indicates that this well has not yet stabilized following deactivation of the P&T System. TCE concentrations in these wells ranged from 130 ug/l (PW-10A in August 2012 and May 2013) to < 2 J ug/L (PW-14 in May 2011, February 2012 and May 2013) during the first three years of the MNA pilot study. Due to the relatively limited historical data for wells sampled annually (PW-3, PW-4, PW-5, PW-6A, PW-6B, PW-7A, and PW-7B), graphs were not generated for these wells.
- TCE concentrations in RW-2, RW-3, and RI-20D have been stable over the first three years of the MNA pilot study with TCE concentrations less than 5 ug/L for all sampling events.

3.2.3 Monitoring Wells Outside the Former Capture Zone

Based on the analysis presented in the MNA Report (Alliance, 2010), the following list of wells are considered to be outside the former P&T capture zone as illustrated on Figure 19 and Figure 20: PW-8A, PW-8B, PW-9A, PW-9B ,W-14, and W-16. The monitoring wells W-10, W-12, W-13, W-17, PW-11, PW-12, FOX MW-1, FOX MW-2, FOX MW-5 are also located outside the former P&T capture zone but are discussed as part of the property boundary / offsite well analysis provided in Section 3.2.4 of this report:

- As expected, TCE concentrations in monitoring wells outside of the historic P&T system capture zone and off-site monitoring wells have remained relatively stable over the first three years of the MNA pilot study. The natural fluctuations are attributed to precipitation recharge events, corresponding increases and decreases in groundwater elevations, and dilution. Certain wells have demonstrated modest (i.e., low magnitude changes in absolute concentrations) decreases or increases in concentrations as the aquifer returns to non-pumping equilibrium conditions.
- TCE concentrations at PW-8A (Figure 6K), PW-8B (Figure 6L), PW-9A (Figure 6M), and W-14 (Figure 6D) during the first three years of the MNA pilot study were observed to remain relatively stable following deactivation of the P&T system, ranging from 81 ug/L (PW-8A in February 2011) to <1 ug/L (W-14 in November 2010 and February 2011). PW-8A has shown a decrease in concentration after initially increasing immediately after the P&T System was shut down. PW-9A, which had been sampled annually during the first two years of the MNA pilot study, was sampled quarterly beginning in November 2012 to more closely monitor changes at this location (i.e., PW-9B). Results confirmed the slowly declining trend observed in the annual data. TCE concentrations at PW-9A were observed to range from 23 ug/L (August 2010) to 11ug/L (August 2013).
- TCE concentrations at PW-9B (Figure 6N) were observed to range from 58 ug/L (August 2013) to 31 ug/L (November 2010). The changes in TCE concentrations at PW-9B may be attributed to the aquifer stabilizing following deactivation of the P&T and the construction of PW-9A / PW-9B (one inch diameter wells nested within a HQ diameter

core hole). PW-9B, which had been sampled annually during the first two years of the MNA pilot study, was sampled quarterly beginning in November 2012 to more closely monitor changes at this location. Results of the past four events suggest that the groundwater quality at this location has not stabilized, with the year over year (August 2012 to August 2013) TCE concentration increasing from 51 ug/L to 58 ug/L. This low magnitude increase is not considered indicative of source material.

- W-16 (Figure 6E) is located on the upgradient edge of the site and represents background groundwater quality. TCE concentrations at W-16 during the first three years of the MNA pilot study were reported as <1 ug/L during each of the sampling events, which is consistent with historic data for this well.

3.2.4 Property Boundary and Off-Site Wells

The following wells are located along the property boundary of the site and off-site: W-10, W-12, W-13, W-17, PW-11, PW-12, PW-13, PW-14, FOX MW-1, FOX MW-2, and FOX MW-5. Note that PW-13 and PW-14 are within the former P&T capture zone and are also discussed in Section 3.2.2. A summary of the analytical results associated with these points is provided below:

- TCE concentrations in monitoring wells along the property boundary and off-site wells have been generally stable and within historical ranges during first three years of the MNA pilot study. Certain wells have demonstrated modest (i.e., low magnitude changes in absolute concentrations) decreases or increases in concentrations as the aquifer returns to non-pumping equilibrium conditions.
- TCE concentrations at wells W-10 (Figure 6B) and W-12 (Figure 6C) along the western property boundary have consistently reported TCE concentrations <1 ug/L during the first three years of the MNA pilot study.
- TCE concentrations at wells PW-11 (Figure 6Q), PW-12 (Figure 6R), PW-13 (Figure 6S), and PW-14 Figure (6T) located along the southwestern property boundary, were observed to remain relatively stable during the first three years of the MNA pilot study with TCE concentrations ranging from 20 ug/L (May and August 2013 at PW-13) to 2 J

ug/L (May 2011, February 2012 and May 2013 at PW-14). PW-11 has demonstrated a downward trend since deactivation of the P&T System, consistent with PW-8A (discussed previously). PW-12 and PW-13 have experienced small and gradual increases in TCE concentrations and do not appear to have stabilized since deactivation of the P&T System. Concentration ranges at these two wells have ranged from 9 and 12 ug/l in August 2010 to 13 and 20 ug/l in August 2013, respectively. PW-14 TCE concentrations have shown a general decrease in concentrations since deactivation of the P&T system, with concentrations ranging from a maximum of 18 ug/L in November 2010 to a minimum of 2J ug/l in May 2011, February 2012 and May 2013).

- TCE concentrations at FOX MW-5 (Figure 6U) during the first three years of the MNA pilot study were observed to be stable during each of the sampling events. TCE concentrations at PW-11, located along strike between PW-8A / PW-8B and FOX MW-5, ranged from 70 ug/L (August 2011) to 49ug/L (August 2013). When compared with PW-11, FOX MW-5 was observed to have consistently higher TCE concentrations during the first three years of the MNA pilot study ranging from 110 ug/L (August 2010) to 78 ug/L (November 2010).
- TCE concentrations in W-13, W-17, and FOX MW-1 have been stable over the first three years of the MNA pilot study with TCE concentrations less than 5 ug/L for all sampling events. TCE concentrations at FOX MW-2 have been observed to be within the historic range of concentrations, ranging from 15 ug/L (August 2013) to <1 ug/L (November 2010).

3.3 Groundwater Geochemistry Monitoring Results

The results of the groundwater geochemical monitoring are summarized in Table 3 (Field Parameters) and Table 4 (Geochemical Data). The following summarizes groundwater geochemical monitoring results since initiation of the MNA pilot study in August 2010 when the P&T system was deactivated. The ranges of parameter concentrations used below in evaluating the site data are based on EPA's Natural Attenuation Screening Protocol (EPA 1998).

- Across the site, groundwater pH, temperature, specific conductivity, and turbidity have remained consistent over the three year monitoring period with fluctuations attributed to seasonal effects and precipitation recharge.
- Groundwater DO and ORP have fluctuated since deactivation of the P&T system and did not exhibit a discernible trend, additional long-term data is needed to identify any trends in these parameters as they relate to the geochemical environment. DO values fluctuated from slightly aerobic (greater then 0.5 mg/L) to slightly anaerobic (less than 0.5 mg/L). Similarly, ORP values fluctuated from indications of slightly aerobic (greater than +50mV) to slightly anaerobic (less than +50 mV). Fluctuations in DO and ORP values over the monitoring period are attributed to seasonal effects and precipitation recharge.
- Ferrous iron measurements have generally increased at the site since deactivation of the P&T system. Ferrous Iron measurements have increased in wells both inside the historic P&T capture zone and outside the P&T capture zone. Because the recent increases are identified in both capture zone wells and non-capture zone wells (including background well W-16), the increases are not necessarily attributed to the deactivation of the P&T system. However, the increasing ferrous concentrations are indicative of the aquifer becoming more conducive to anaerobic reductive dechlorination. Continued monitoring of ferrous iron will be conducted to determine if the increasing trend continues.
- The average nitrate concentration (1.3 mg/L) was greater than 1 mg/L, indicating slightly aerobic conditions, however, nitrate concentrations are below 1 mg/L in three of the seven wells sampled (PW-8A, PW-10A and PW-11). Nitrite was not detected in any samples during the monitoring period (Average detection limit of 0.015 mg/L).
- The average sulfate concentration (26.7 mg/L) was greater than 20 mg/L, indicating slightly aerobic conditions.
- The TOC concentrations were less than 20 mg/L in all wells sampled.

Additional, long-term groundwater geochemical data is needed to identify any trends in these parameters as they relate to the geochemical environment in the aquifer (under natural, non-pumping conditions).

3.4 Groundwater Bioremediation Parameter Results

The results of the groundwater bioremediation parameter monitoring are summarized in Tables 3 and 4. The following summarizes the results of the bioremediation parameter monitoring and discusses any discernible trends or observations in that data over the first three years of the MNA pilot Study:

- Both ethene and/or ethane were detected at concentrations at or above 0.1 mg/L in select monitoring wells inside the former P&T capture zone and outside the historic P&T capture zone. Ethene is a daughter product of TCE and therefore provides evidence of complete TCE degradation at the Site. Ethane is a daughter product of 1,1,1-Trichloroethane (TCA) and therefore provide evidence of complete TCA degradation. The presence of ethene and ethane provides further evidence that conditions conducive for anaerobic reductive dechlorination are present. Ethene and ethane were not detected in background well W-16, providing additional evidence that the ethene and ethane identified are the result of dechlorination via natural processes.
- Methane has been detected at concentrations ranging from <0.02 mg/L to 7.1 mg/L in monitoring wells inside and outside the historic P&T system capture zone. The presence of methane is an indicator of some anaerobic activity at the Site.
- Vinyl chloride (VC) has been detected in monitoring wells inside and outside the historic P&T system capture zone that also report TCE. VC was not previously detected at the Site due to low parent concentrations of TCE (generally less then 100 ug/L), however utilization of the SIM method for VC has confirmed the presence of VC by providing a lower detection limit (0.010 ug/L) than the standard EPA Method 8260 VOCs analytical method (detection limit of 1 ug/L). VC is a daughter product generated from reductive dechlorination. The presence of VC as well as ethene provides evidence of anaerobic degradation of TCE within the former capture zone of the P&T system.
- Volatile fatty acids (VFAs) were detected in monitoring well locations both inside the historic P&T system capture zone (e.g. PW-10A, RI-20S, RW-1, and W-1) and outside the capture zone (e.g. PW-8A, PW-11, and W-16). VFAs are a carbon and energy source

that can facilitate anaerobic reductive dechlorination of TCE (EPA, 1998) and so provide some evidence of conditions favorable to TCE degradation.

Additional, long-term monitoring of the bioremediation parameters will continue to measure these analytes, to further document the degradation of TCE via naturally occurring anaerobic reductive dechlorination, and to document the return of groundwater in OU-1 to conditions conducive to degradation of TCE.

4.0 CONCLUSIONS & RECOMMENDATIONS

4.1 Discussion

As described above in the previous sections, the groundwater data collected as part of this MNA pilot study has demonstrated that as a result of shutting off the P&T System, no adverse effects have been noted at the Site as the groundwater returns to non-pumping equilibrium. In addition, the data demonstrates that the Site conditions are becoming more favorable for the elements of MNA that are associated with natural degradation of the VOCs present in groundwater. Although the cessation of groundwater pumping reduced the influx of oxygenated groundwater into the capture zone, it was expected that it would take several years for the aquifer to return to natural, non-pumping conditions.

EPA has established objectives for performance monitoring of MNA remedies as described in *Performance Monitoring of MNA Remedies for VOCs in Groundwater* (EPA, April 2004b). As discussed in this document, OSWER Directive 9200.4-17P provides eight specific objectives to be met by the performance monitoring program of an MNA remedy (EPA, 1999). While the current monitoring is being conducted as part of a pilot study and to monitor Site conditions after shutting down the P&T system, the following evaluates the existing data for the Site relative to these eight objectives:

Objective 1) Demonstrate that natural attenuation is occurring to expectations.

The MNA Report already documented in 2010 that natural attenuation was occurring in groundwater outside the capture zone of the P&T system. The first three years of monitoring after the shutdown of the P&T system has demonstrated that there has been no significant rebound of TCE concentrations in groundwater and that no residual source material is present at the Site, as expected. Observed increases of TCE concentrations in groundwater in some areas of the site, while low in magnitude, are indicative of Site groundwater in these areas establishing equilibrium conditions under natural, non-pumping conditions.

Objective 2) Detect changes in environmental conditions (e.g., hydrologic, geochemical, microbiological, or other changes) that may reduce the efficacy of any of the natural attenuation processes.

The results from the first three years of monitoring after the shutdown of the P&T system did not detect any changes in conditions that would negatively affect the natural attenuation processes. The aquifer has returned to a natural and steeper hydraulic gradient, thereby increasing groundwater velocities and corresponding dispersion rates, although the rates of groundwater (and contaminant) movement will still be low given the low hydraulic conductivity of the aquifer. Increases in ferrous iron and detections of methane, ethene, and ethane indicate that the aquifer is slowly returning to more anaerobic conditions conducive for anaerobic reductive dechlorination of TCE. Therefore, environmental conditions are changing that will tend to increase the efficacy of the natural attenuation processes and there is no evidence to suggest that changes in environmental conditions are occurring that may reduce the efficacy of the natural attenuation processes.

Objective 3) Identify any potentially toxic and/or mobile transformation products.

No potentially toxic transformation products were detected in the past three years of groundwater monitoring. As discussed previously, vinyl chloride had not previously been reported at the Site, but as a result of the more sensitive analytical methods used for this pilot study, low levels of vinyl chloride were reported in groundwater at concentrations several orders of magnitude below its MCL. The presence of vinyl chloride is evidence of the biologic degradation of TCE.

Objective 4) Verify that the plume(s) is not expanding downgradient, laterally or vertically.

As discussed previously, the groundwater quality data collected since the P&T system was shut down has consistently been within the historic range of concentrations for each well while the P&T system was operating. The observed modest increase of TCE concentration in certain wells is indicative of the site groundwater in these areas establishing equilibrium conditions under non pumping conditions. The magnitude of the changes in these wells is offset by a decrease of TCE

concentrations in other wells and overall does not suggest a material change in the plume geometry. Further, the shallow bedrock aquifer exhibits relatively low permeability (geometric mean hydraulic conductivity of 0.91 feet/day from slug testing during the PDI), indicating that groundwater and contaminants move slowly through the aquifer.

Objective 5) Verify no unacceptable impact to downgradient receptors.

As discussed in the PDI and the MNA Report, there are no downgradient receptors (e.g., drinking water wells). All of the neighboring properties have been and continue to be supplied public water. No ecological receptors have ever been identified.

Objective 6) Detect new releases of contaminants to the environment that could impact the effectiveness of the natural attenuation remedy.

No new releases of contaminants were detected.

Objective 7) Demonstrate the efficacy of institutional controls that were put in place to protect potential receptors.

The environmental covenant that was established for the former BAE Systems property (that was approved by EPA Region III) is still in place and effective. There are no drinking water wells in the subject area.

Objective 8) Verify attainment of remediation objectives.

The remedial action objective (RAO) for OU-1 is to restore the groundwater quality to EPA Maximum Contaminant Levels (MCLs) for TCE (5 ug/L) and 1, 1-DCE (7 ug/L) within a reasonable timeframe. As demonstrated in the *MNA Report* (Alliance, 2010a), reduction of TCE (and 1,1-DCE) concentrations via MNA would occur at least as fast if not faster than by continuation of P&T technology. Further, reactivating the P&T system would not significantly remediate the site more quickly than MNA because P&T is limited by matrix diffusion. As

pointed out by Parker et al. (2010), "remediation focused only on removal [(e.g., P&T)] or destruction [(e.g., in-situ chemical oxidation)] of mass in the fractures is futile due to back diffusion…regardless of the remedial approach, the time scales to restore groundwater quality are very long…[and] degradation in the rock matrix, if occurring even at slow rates, may play an important role in reducing long-term plume persistence in fractured sedimentary rock, although the time scales are still long." Therefore, MNA will attain the remediation objectives within a reasonable timeframe comparable to if not shorter than for other active remedial alternatives such as P&T.

EPA's MNA Performance Monitoring guidance supports the continuation of this program without any change. Specifically, the data generated during the past three years of the MNA pilot test indicate no significant rebound in contaminant concentrations has occurred. Since the P&T system has been shut down, groundwater concentrations (at wells with meaningful data prior to system deactivation) have remained within the bounds of their recent historic trends. The groundwater flow parameters have not changed, except to the extent expected by the shutdown of the pumping wells. The geochemistry has not changed in a way to negatively affect the natural attenuation processes, but rather has shown signs of becoming more anaerobic and therefore more conducive to anaerobic reductive dechlorination, one component of the several MNA processes that are expected to improve the groundwater quality at the Site. Over the course of the next several years of monitoring, it may be possible to determine the rate of change in the groundwater quality (i.e., VOC concentrations) that are associated with natural processes, unaffected by the operation of the P&T system and the recent shut down of this system. The planned monitoring schedule is discussed below.

4.2 Proposed MNA Monitoring Schedule for the Next Year

The planned MNA monitoring schedule for the next year will consist of a continuation of the existing monitoring program. Specifically, the monitoring program will consist of the following:

- Quarterly monitoring (November 2013, February 2014, and May 2014):
  - Gauge depth-to-water in the updated Long List monitoring wells to evaluate hydraulic gradients.
  - Sample the updated Short List monitoring wells for VOCs and field geochemical parameters (pH, temperature, downhole DO, ORP, ferrous iron, and specific conductivity).
  - Sample the updated Bioremediation monitoring wells for low-level vinyl chloride.
- Annual monitoring (August 2013):
  - Gauge depth-to-water in the updated Long List monitoring wells to evaluate hydraulic gradients.
  - Sample the updated Long List monitoring wells for VOCs and field geochemical parameters (pH, temperature, downhole DO, ORP, ferrous iron, and specific conductivity).
  - Sample the updated Bioremediation monitoring wells for:
    - Ethene, ethane, and methane.
    - Total iron, ferrous iron (field analysis), sulfate, sulfide, nitrate, nitrite, alkalinity, TOC, and DOC.
    - VFAs (lactate, pyruvate, acetate, propionate, formate, and butyrate); and
    - Low-level vinyl chloride.

At the end of the fourth year of monitoring, an annual monitoring report will be prepared to evaluate the data.

5.0 REFERENCES

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TABLES

Table 1
MNA Pilot Study
Groundwater Elevation Data
Former BAE Facility
Lansdale, Pennsylvania

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Groundwater Elevation (ft)
A-2	NM	08/09/10	Dry	--
		08/05/13	8.69	--
A-3	317.26	08/09/10	6.83	310.43
		11/16/10	6.59	310.67
		02/07/11	2.00	315.26
		05/02/11	3.58	313.68
		08/15/11	2.43	314.83
		11/07/11	4.49	312.77
		02/13/12	3.31	313.95
		05/01/12	2.20	315.06
		08/13/12	2.00	315.26
		11/15/12	3.60	313.66
		02/04/13	2.74	314.52
		05/06/13	5.05	312.21
		08/05/13	3.66	313.60
A-4	317.83	08/09/10	Dry	--
		11/16/10	10.16	307.67
		02/07/11	7.45	310.38
		05/02/11	8.33	309.50
		08/15/11	10.04	307.79
		11/07/11	8.98	308.85
		02/13/12	9.96	307.87
		05/01/12	9.48	308.35
		08/13/12	9.44	308.39
		11/15/12	10.36	307.47
		02/04/13	7.61	310.22
		05/06/13	9.33	308.50
		08/05/13	9.62	308.21
A-5	316.61	08/09/10	Dry	--
		11/16/10	11.90	304.71
		02/07/11	8.49	308.12
		05/02/11	8.12	308.49
		08/15/11	11.22	305.39
		11/07/11	8.86	307.75
		02/13/12	10.68	305.93
		05/01/12	10.50	306.11
		08/13/12	10.92	305.69
		11/15/12	11.86	304.75
		02/04/13	8.62	307.99
		05/06/13	10.52	306.09
		08/05/13	10.42	306.19
A-6	316.54	08/09/10	Dry	--
		11/16/10	11.91	304.63
		02/07/11	Buried in Snow	
		05/02/11	8.45	308.09
		08/15/11	9.39	307.15
		11/07/11	8.46	308.08
		02/13/12	10.47	306.07
		05/01/12	10.18	306.36
		08/13/12	10.44	306.10
		11/15/12	11.77	304.77
		02/04/13	8.73	307.81
		05/06/13	10.24	306.30
		08/05/13	10.20	306.34

Table 1
MNA Pilot Study
Groundwater Elevation Data
Former BAE Facility
Lansdale, Pennsylvania

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Groundwater Elevation (ft)
A-7	317.23	08/09/10	Dry	--
		11/16/10	12.69	304.54
		02/07/11	10.00	307.23
	314.12	05/02/11	9.60	307.63
	314.12	08/15/11	7.23	306.89
		11/07/11	6.95	307.17
		02/13/12	8.28	305.84
		05/01/12	7.82	306.30
		08/13/12	7.62	306.50
		11/15/12	9.28	304.84
		02/04/13	6.81	307.31
		05/06/13	7.76	306.36
		08/05/13	7.99	306.13
A-8	317.76	08/09/10	Dry	--
		11/16/10	Dry	--
		02/07/11	7.20	310.56
		05/02/11	7.10	310.66
		08/15/11	8.42	309.34
		11/07/11	7.70	310.06
		02/13/12	9.26	308.50
		05/01/12	9.05	308.71
		08/13/12	8.35	309.41
		11/15/12	DRY	--
		02/04/13	7.42	310.34
		05/06/13	8.99	308.77
		08/05/13	8.82	308.94
A-9	317.88	08/09/10	Dry	--
		11/16/10	Dry	--
		02/07/11	9.84	308.04
		05/02/11	9.02	308.86
		08/15/11	10.25	307.63
		11/07/11	9.54	308.34
		02/13/12	11.09	306.79
		05/01/12	10.88	307.00
		08/13/12	10.88	307.00
		11/15/12	DRY	--
		02/04/13	9.37	308.51
		05/06/13	10.85	307.03
		08/05/13	10.71	307.17
A-11	314.63	08/09/10	18.70	295.93
		11/16/10	14.92	299.71
		02/07/11	9.56	305.07
		05/02/11	9.37	305.26
		08/15/11	14.79	299.84
		11/07/11	10.53	304.10
		02/13/12	13.60	301.03
		05/01/12	13.11	301.52
		08/13/12	14.95	299.68
		11/15/12	15.50	299.13
		02/04/13	10.52	304.11
		05/06/13	13.31	301.32
		08/05/13	13.69	300.94

Table 1
MNA Pilot Study
Groundwater Elevation Data
Former BAE Facility
Lansdale, Pennsylvania

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Groundwater Elevation (ft)
A-12	316.07	08/09/10	17.30	298.77
		11/16/10	16.13	299.94
		02/07/11	13.20	302.87
		05/02/11	10.93	305.14
		08/15/11	14.96	301.11
		11/07/11	12.01	304.06
		02/13/12	14.90	301.17
		05/01/12	14.19	301.88
		08/13/12	15.54	300.53
		11/15/12	16.37	299.70
		02/04/13	11.95	304.12
		05/06/13	14.50	301.57
		08/05/13	14.78	301.29
A-13	314.82	08/09/10	15.49	299.33
		11/16/10	14.69	300.13
		02/07/11	12.31	302.51
		05/02/11	9.44	305.38
		08/15/11	13.60	301.22
		11/07/11	10.64	304.18
		02/13/12	13.60	301.22
		05/01/12	12.61	302.21
		08/13/12	14.21	300.61
		11/15/12	14.91	299.91
		02/04/13	10.64	304.18
		05/06/13	13.19	301.63
		08/05/13	13.47	301.35
A-14	313.97	08/09/10	14.18	299.79
		11/16/10	13.04	300.93
		02/07/11	10.95	303.02
		05/02/11	8.31	305.66
		08/15/11	12.45	301.52
		11/07/11	9.50	304.47
		02/13/12	11.85	302.12
		05/01/12	11.60	302.37
		08/13/12	12.42	301.55
		11/15/12	12.73	301.24
		02/04/13	9.47	304.50
		05/06/13	11.63	302.34
		08/05/13	11.78	302.19
A-16	310.62	08/09/10	Dry	
		11/16/10	Dry	
		02/07/11	Buried in Snow	
		Abandoned		

Table 1
MNA Pilot Study
Groundwater Elevation Data
Former BAE Facility
Lansdale, Pennsylvania

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Groundwater Elevation (ft)
A-17	316.06	08/09/10	Dry	
		11/16/10	Dry	
		02/07/11	Dry	
		05/02/11	11.60	304.46
	313.70	08/15/11	Dry	
		11/07/11	Dry	
		02/13/12	Dry	
		05/01/12	Dry	
		08/13/12	Dry	
		11/15/12	Dry	
		02/04/13	Dry	
		05/06/13	Dry	
		08/05/13	Dry	
A-18	315.94	08/09/10	Dry	
		11/16/10	Dry	
		02/07/11	Dry	
		05/02/11	10.36	305.58
		08/15/11	Dry	
		11/07/11	11.19	304.75
		02/13/12	Dry	
		05/01/12	Dry	
		08/13/12	Dry	
		11/15/12	Dry	
		02/04/13	Dry	
		05/06/13	Dry	
		08/05/13	Dry	
FOX MW-1	297.23	08/09/10	8.69	288.54
		11/16/10	5.45	291.78
		02/07/11	4.47	292.76
		05/02/11	4.67	292.56
		08/15/11	5.42	291.81
		11/07/11	4.69	292.54
		02/13/12	5.19	292.04
		05/01/12	4.96	292.27
		08/13/12	5.08	292.15
		11/15/12	5.39	291.84
		02/04/13	4.76	292.47
		05/06/13	5.24	291.99
		08/05/13	5.28	291.95

Table 1
MNA Pilot Study
Groundwater Elevation Data
Former BAE Facility
Lansdale, Pennsylvania

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Groundwater Elevation (ft)
FOX MW-2	295.56	08/09/10	11.73	283.83
		11/16/10	10.84	284.72
		02/07/11	10.09	285.47
		05/02/11	10.44	285.12
		08/15/11	10.78	284.78
		11/07/11	10.40	285.16
		02/13/12	10.66	284.90
		05/01/12	10.49	285.07
		08/13/12	10.52	285.04
		11/15/12	10.80	284.76
		02/04/13	10.44	285.12
		05/06/13	10.80	284.76
		08/05/13	10.74	284.82
FOX MW-5	302.58	08/09/10	14.66	287.92
		08/24/10	13.05	289.53
		08/31/10	14.77	287.81
		09/07/10	15.37	287.21
		09/15/10	15.64	286.94
		10/12/10	11.45	291.13
		11/16/10	11.77	290.81
		02/07/11	10.62	291.96
		05/02/11	10.80	291.78
		08/15/11	11.86	290.72
		11/07/11	10.88	291.70
		02/13/12	11.37	291.21
		05/01/12	11.24	291.34
		08/13/12	11.59	290.99
		11/15/12	11.81	290.77
		02/04/13	10.88	291.70
		05/06/13	11.48	291.10
		08/05/13	11.58	291.00
PW-1	315.51	08/09/10	22.49	293.02
		08/24/10	17.28	298.23
		08/31/10	18.36	297.15
		09/07/10	18.58	296.93
		09/15/10	19.64	295.87
		10/12/10	13.36	302.15
		11/16/10	14.14	301.37
		02/07/11	12.00	303.51
		05/02/11	7.34	308.17
		08/15/11	13.54	301.97
		11/07/11	7.27	308.24
		02/13/12	8.76	306.75
		05/01/12	13.45	302.06
		08/13/12	13.44	302.07
		11/15/12	13.15	302.36
		02/04/13	11.55	303.96
		05/06/13	12.95	302.56
		08/05/13	8.58	306.93

Table 1
MNA Pilot Study
Groundwater Elevation Data
Former BAE Facility
Lansdale, Pennsylvania

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Groundwater Elevation (ft)
PW-2	315.57	08/09/10	24.40	291.17
		08/24/10	18.58	296.99
		08/31/10	19.26	296.31
		09/07/10	19.65	295.92
		09/15/10	20.95	294.62
		10/12/10	15.58	299.99
		11/16/10	16.34	299.23
		02/07/11	14.03	301.54
		05/02/11	14.22	301.35
		08/15/11	15.94	299.63
		11/07/11	14.41	301.16
		02/13/12	15.48	300.09
		05/01/12	15.18	300.39
		08/13/12	15.82	299.75
		11/15/12	15.79	299.78
		02/04/13	14.02	301.55
		05/06/13	14.08	301.49
		08/05/13	15.22	300.35
PW-3	313.85	08/09/10	21.86	291.99
		11/16/10	14.20	299.65
		02/07/11	11.99	301.86
		05/02/11	8.63	305.22
		08/15/11	12.17	301.68
		11/07/11	9.58	304.27
		02/13/12	11.75	302.10
		05/01/12	11.21	302.64
		08/13/12	12.58	301.27
		11/15/12	13.68	300.17
		02/04/13	9.30	304.55
		05/06/13	11.68	302.17
		08/05/13	11.84	302.01
PW-4	315.58	08/09/10	12.14	303.44
		11/16/10	9.48	306.10
		02/07/11	6.58	309.00
		05/02/11	6.22	309.36
		08/15/11	7.78	307.80
		11/07/11	9.75	305.83
		02/13/12	8.37	307.21
		05/01/12	8.45	307.13
		08/13/12	8.61	306.97
		11/15/12	9.71	305.87
		02/04/13	6.74	308.84
		05/06/13	8.25	307.33
		08/05/13	8.15	307.43
PW-5	315.33	08/09/10	11.83	303.50
		11/16/10	10.58	304.75
		02/07/11	9.00	306.33
		05/02/11	6.52	308.81
		08/15/11	7.54	307.79
		11/07/11	7.30	308.03
		02/13/12	8.34	306.99
		05/01/12	8.36	306.97
		08/13/12	8.58	306.75
		11/15/12	9.92	305.41
		02/04/13	6.63	308.70
		05/06/13	8.03	307.30
		08/05/13	7.94	307.39

Table 1
MNA Pilot Study
Groundwater Elevation Data
Former BAE Facility
Lansdale, Pennsylvania

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Groundwater Elevation (ft)
PW-6A	313.55	08/09/10	20.39	293.16
		11/16/10	16.45	297.10
		02/07/11	13.65	299.90
		05/02/11	14.08	299.47
		08/15/11	16.20	297.35
		11/07/11	15.05	298.50
		02/13/12	14.44	299.11
		05/01/12	15.21	298.34
		08/13/12	15.31	298.24
		11/15/12	16.80	296.75
		02/04/13	14.20	299.35
		05/06/13	14.80	298.75
		08/05/13	15.05	298.50
PW-6B	313.55	08/09/10	18.49	295.06
		11/16/10	14.65	298.90
		02/07/11	13.00	300.55
		05/02/11	12.85	300.70
		08/15/11	14.31	299.24
		11/07/11	12.08	301.47
		02/13/12	14.42	299.13
		05/01/12	13.89	299.66
		08/13/12	14.55	299.00
		11/15/12	14.75	298.80
		02/04/13	13.24	300.31
		05/06/13	14.02	299.53
		08/05/13	14.02	299.53
PW-7A	310.63	08/09/10	19.77	290.86
		11/16/10	11.72	298.91
		02/07/11	9.69	300.94
		05/02/11	9.95	300.68
		08/15/11	11.38	299.25
		11/07/11	4.95	305.68
		02/13/12	10.74	299.89
		05/01/12	10.51	300.12
		08/13/12	11.33	299.30
		11/15/12	11.20	299.43
		02/04/13	10.05	300.58
		05/06/13	10.78	299.85
		08/05/13	10.87	299.76
PW-7B	310.61	08/09/10	19.73	290.88
		11/16/10	11.72	298.89
		02/07/11	9.71	300.90
		05/02/11	9.98	300.63
		08/15/11	11.43	299.18
		11/07/11	4.97	305.64
		02/13/12	10.75	299.86
		05/01/12	10.52	300.09
		08/13/12	11.35	299.26
		11/15/12	11.21	299.40
		02/04/13	10.07	300.54
		05/06/13	10.82	299.79
		08/05/13	10.94	299.67

Table 1
MNA Pilot Study
Groundwater Elevation Data
Former BAE Facility
Lansdale, Pennsylvania

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Groundwater Elevation (ft)
PW-8A	304.75	08/09/10	16.16	288.59
		08/24/10	15.03	289.72
		08/31/10	16.28	288.47
		09/07/10	16.85	287.90
		09/15/10	17.11	287.64
		10/12/10	13.56	291.19
		11/16/10	12.83	291.92
		02/07/11	12.42	292.33
		05/02/11	12.97	291.78
		08/15/11	13.92	290.83
		11/07/11	12.43	292.32
		02/13/12	13.15	291.60
		05/01/12	13.04	291.71
		08/13/12	14.05	290.70
		11/15/12	14.03	290.72
		02/04/13	12.82	291.93
		05/06/13	13.50	291.25
		08/05/13	13.71	291.04
PW-8B	304.71	08/09/10	15.05	289.66
		08/24/10	13.51	291.20
		08/31/10	14.66	290.05
		09/07/10	15.30	289.41
		09/15/10	15.58	289.13
		10/12/10	11.79	292.92
		11/16/10	12.02	292.69
		02/07/11	10.90	293.81
		05/02/11	10.88	293.83
		08/15/11	12.10	292.61
		11/07/11	10.02	294.69
		02/13/12	11.55	293.16
		05/01/12	11.41	293.30
		08/13/12	14.36	290.35
		11/15/12	12.40	292.31
		02/04/13	11.39	293.32
		05/06/13	11.99	292.72
		08/05/13	12.14	292.57
PW-9A	310.76	08/09/10	19.65	291.11
		11/16/10	18.37	292.39
		02/07/11	17.77	292.99
		05/02/11	15.94	294.82
		08/15/11	17.90	292.86
		11/07/11	16.93	293.83
		02/13/12	17.15	293.61
		05/01/12	17.05	293.71
		08/13/12	18.10	292.66
		11/15/12	17.31	293.45
		02/04/13	16.43	294.33
		05/06/13	17.08	293.68
		08/05/13	17.14	293.62

Table 1
MNA Pilot Study
Groundwater Elevation Data
Former BAE Facility
Lansdale, Pennsylvania

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Groundwater Elevation (ft)
PW-9B	310.63	08/09/10	21.30	289.33
		11/16/10	18.04	292.59
		02/07/11	16.52	294.11
		05/02/11	16.41	294.22
		08/15/11	17.66	292.97
		11/07/11	16.52	294.11
		02/13/12	17.13	293.50
		05/01/12	17.03	293.60
		08/13/12	17.76	292.87
		11/15/12	17.56	293.07
		02/04/13	16.44	294.19
		05/06/13	17.12	293.51
		08/05/13	17.24	293.39
PW-10A	310.42	08/09/10	19.79	290.63
		08/24/10	18.52	291.90
		08/31/10	18.41	292.01
		09/07/10	20.05	290.37
		09/15/10	20.36	290.06
		10/12/10	16.69	293.73
		11/16/10	16.35	294.07
		02/07/11	15.72	294.70
		05/02/11	15.52	294.90
		08/15/11	16.95	293.47
		11/07/11	15.59	294.83
		02/13/12	16.30	294.12
		05/01/12	16.21	294.21
		08/13/12	16.96	293.46
		11/15/12	17.44	292.98
		02/04/13	15.61	294.81
		05/06/13	16.90	293.52
		08/05/13	16.95	293.47
PW-10B	310.42	08/09/10	19.94	290.48
		08/24/10	15.13	295.29
		08/31/10	16.32	294.10
		09/07/10	16.95	293.47
		09/15/10	17.35	293.07
		10/12/10	12.98	297.44
		11/16/10	13.38	297.04
		02/07/11	11.77	298.65
		05/02/11	11.98	298.44
		08/15/11	13.49	296.93
		11/07/11	12.20	298.22
		02/13/12	12.95	297.47
		05/01/12	12.71	297.71
		08/13/12	13.44	296.98
		11/15/12	13.80	296.62
		02/04/13	11.94	298.48
		05/06/13	13.25	297.17
		08/05/13	13.24	297.18

Table 1
MNA Pilot Study
Groundwater Elevation Data
Former BAE Facility
Lansdale, Pennsylvania

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Groundwater Elevation (ft)
PW-11	304.89	08/09/10	16.50	288.39
		08/24/10	15.07	289.82
		08/31/10	16.50	288.39
		09/07/10	17.12	287.77
		09/15/10	17.37	287.52
		10/12/10	13.48	291.41
		11/16/10	13.73	291.16
		02/07/11	12.54	292.35
		05/02/11	12.61	292.28
		08/15/11	13.80	291.09
		11/07/11	12.62	292.27
		02/13/12	11.51	293.38
		05/01/12	13.12	291.77
		08/13/12	--	--
		11/15/12	13.78	291.11
		02/04/13	12.69	292.20
		05/06/13	13.39	291.50
		08/05/13	13.49	291.40
PW-12	308.17	08/09/10	17.26	290.91
		08/24/10	15.04	293.13
		08/31/10	16.52	291.65
		09/07/10	17.21	290.96
		09/15/10	17.51	290.66
		10/12/10	13.05	295.12
		11/16/10	13.48	294.69
		02/07/11	12.13	296.04
		05/02/11	12.19	295.98
		08/15/11	13.31	294.86
		11/07/11	12.07	296.10
		02/13/12	12.78	295.39
		05/01/12	12.56	295.61
		08/13/12	15.10	293.07
		11/15/12	13.10	295.07
		02/04/13	11.94	296.23
		05/06/13	12.57	295.60
		08/05/13	12.65	295.52
PW-13	312.13	08/09/10	20.41	291.72
		08/24/10	17.12	295.01
		08/31/10	18.17	293.96
		09/07/10	18.92	293.21
		09/15/10	19.34	292.79
		10/12/10	14.66	297.47
		11/16/10	15.05	297.08
		02/07/11	13.40	298.73
		05/02/11	13.22	298.91
		08/15/11	14.90	297.23
		11/07/11	13.43	298.70
		02/13/12	14.30	297.83
		05/01/12	14.08	298.05
		08/13/12	13.10	299.03
		11/15/12	15.02	297.11
		02/04/13	13.40	298.73
		05/06/13	14.33	297.80
		08/05/13	14.45	297.68

Table 1
MNA Pilot Study
Groundwater Elevation Data
Former BAE Facility
Lansdale, Pennsylvania

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Groundwater Elevation (ft)
PW-14	315.79	08/09/10	24.06	291.73
		08/24/10	18.58	297.21
		08/31/10	19.65	296.14
		09/07/10	20.50	295.29
		09/15/10	20.91	294.88
		10/12/10	16.01	299.78
		11/16/10	16.69	299.10
		02/07/11	14.64	301.15
		05/02/11	14.54	301.25
		08/15/11	16.05	299.74
		11/07/11	14.28	301.51
		02/13/12	15.50	300.29
		05/01/12	15.43	300.36
		08/13/12	16.22	299.57
		11/15/12	16.30	299.49
		02/04/13	14.38	301.41
		05/06/13	15.57	300.22
		08/05/13	15.40	300.39
Recovery Well	315.12	08/09/10	33.12	282.00
		08/24/10	17.61	297.51
		08/31/10	18.65	296.47
		09/07/10	19.44	295.68
		09/15/10	19.05	296.07
		10/12/10	14.90	300.22
		11/16/10	15.69	299.43
		02/07/11	13.35	301.77
		05/02/11	10.98	304.14
		08/15/11	15.11	300.01
		11/07/11	13.93	301.19
		02/13/12	13.99	301.13
		05/01/12	14.28	300.84
		08/13/12	15.03	300.09
		11/15/12	15.06	300.06
		02/04/13	13.56	301.56
		05/06/13	14.41	300.71
		08/05/13	14.33	300.79
RI-19D	295.02	08/09/10	6.09	288.93
		08/24/10	6.25	288.77
		08/31/10	6.37	288.65
		09/07/10	6.75	288.27
		09/15/10	6.97	288.05
		10/12/10	5.03	289.99
		11/16/10	4.88	290.14
		02/07/11	3.08	291.94
		05/02/11	3.29	291.73
		08/15/11	4.95	290.07
		11/07/11	3.37	291.65
		02/13/12	4.08	290.94
		05/01/12	4.49	290.53
		08/13/12	5.29	289.73
		11/15/12	4.75	290.27
		02/04/13	3.42	291.60
		05/06/13	4.34	290.68
		08/05/13	4.29	290.73

Table 1
MNA Pilot Study
Groundwater Elevation Data
Former BAE Facility
Lansdale, Pennsylvania

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Groundwater Elevation (ft)
RI-19S	294.98	08/09/10	6.08	288.90
		08/24/10	6.24	288.74
		08/31/10	6.38	288.60
		09/07/10	6.74	288.24
		09/15/10	6.96	288.02
		10/12/10	5.03	289.95
		11/16/10	4.80	290.18
		02/07/11	3.06	291.92
		05/02/11	3.24	291.74
		08/15/11	4.94	290.04
		11/07/11	3.34	291.64
		02/13/12	4.02	290.96
		05/01/12	4.48	290.50
		08/13/12	5.30	289.68
		11/15/12	4.74	290.24
		02/04/13	3.38	291.60
		05/06/13	4.31	290.67
		08/05/13	4.26	290.72
RI-20D	304.94	08/09/10	14.05	290.89
		11/16/10	9.83	295.11
		02/07/11	8.34	296.60
		05/02/11	8.55	296.39
		08/15/11	9.69	295.25
		11/07/11	8.44	296.50
		02/13/12	9.18	295.76
		05/01/12	8.95	295.99
		08/13/12	9.07	295.87
		11/15/12	9.53	295.41
		02/04/13	8.36	296.58
		05/06/13	9.07	295.87
		08/05/13	9.12	295.82
RI-20S	304.94	08/09/10	--	--
		08/24/10	14.47	290.47
		08/31/10	15.51	289.43
		09/07/10	16.15	288.79
		09/15/10	16.42	288.52
		10/12/10	12.76	292.18
		11/16/10	12.93	292.01
		02/07/11	11.83	293.11
		05/02/11	11.79	293.15
		08/15/11	13.01	291.93
		11/07/11	11.80	293.14
		02/13/12	12.49	292.45
		05/01/12	12.38	292.56
		08/13/12	13.09	291.85
		11/15/12	12.92	292.02
		02/04/13	11.83	293.11
		05/06/13	12.48	292.46
		08/05/13	12.58	292.36
RI-30	NM	05/06/13	5.20	--
		08/05/13	5.08	--
RI-31	NM	05/02/12	6.99	--
		11/11/12	7.75	--
		08/13/12	8.15	--
		02/04/13	5.49	--
		05/06/13	6.58	--
		08/05/13	6.86	--

Table 1
MNA Pilot Study
Groundwater Elevation Data
Former BAE Facility
Lansdale, Pennsylvania

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Groundwater Elevation (ft)
RW-1	313.36	08/09/10	21.90	291.46
		08/24/10	17.09	296.27
		08/31/10	18.14	295.22
		09/07/10	18.91	294.45
		09/15/10	19.30	294.06
		10/12/10	14.75	298.61
		11/16/10	15.31	298.05
		02/07/11	13.47	299.89
		05/02/11	13.55	299.81
		08/15/11	15.10	298.26
		11/07/11	13.72	299.64
		02/13/12	14.65	298.71
		05/01/12	14.39	298.97
		08/13/12	15.10	298.26
		11/15/12	15.11	298.25
		02/04/13	13.47	299.89
		05/06/13	14.31	299.05
		08/05/13	14.48	298.88
RW-2	314.96	08/09/10	16.30	298.66
		11/16/10	11.81	303.15
		02/07/11	9.26	305.70
		05/02/11	9.15	305.81
		08/15/11	11.50	303.46
		11/07/11	4.67	310.29
		02/13/12	10.43	304.53
		05/01/12	10.57	304.39
		08/13/12	11.72	303.24
		11/15/12	11.30	303.66
		02/04/13	9.40	305.56
		05/06/13	10.13	304.83
		08/05/13	10.31	304.65
RW-3	317.57	08/09/10	9.40	308.17
		11/16/10	6.25	311.32
		02/07/11	2.26	315.31
		05/02/11	1.28	316.29
		08/15/11	6.24	311.33
		11/07/11	2.29	315.28
		02/13/12	3.72	313.85
		05/01/12	4.24	313.33
		08/13/12	6.49	311.08
		11/15/12	5.38	312.19
		02/04/13	1.82	315.75
		05/06/13	3.04	314.53
		08/05/13	3.65	313.92
RW-4D	NM	08/13/12	10.48	--
		11/11/12	9.06	--
		02/04/13	7.40	--
		05/06/13	8.42	--
		08/05/13	8.74	--
RW-4I	NM	08/13/12	8.87	--
		11/11/12	6.97	--
		02/04/13	5.17	--
		05/06/13	6.04	--
		08/05/13	6.45	--
RW-4S	NM	08/13/12	8.53	--
		11/11/12	6.70	--
		02/04/13	4.55	--
		05/06/13	5.63	--
		08/05/13	5.93	--

Table 1
MNA Pilot Study
Groundwater Elevation Data
Former BAE Facility
Lansdale, Pennsylvania

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Groundwater Elevation (ft)
RW-5D	NM	08/13/12	12.13	--
		11/11/12	10.47	--
		02/04/13	8.68	--
		05/06/13	9.80	--
		08/05/13	9.76	--
RW-5I	NM	08/13/12	12.55	--
		11/11/12	10.94	--
		02/04/13	8.98	--
		05/06/13	9.95	--
		08/05/13	10.15	--
RW-5S	NM	08/13/12	12.45	--
		11/11/12	10.75	--
		02/04/13	8.54	--
		05/06/13	9.67	--
		08/05/13	9.91	--
W-1	314.58	08/09/10	12.29	302.29
		08/24/10	10.42	304.16
		08/31/10	13.88	300.70
		09/07/10	17.61	296.97
		09/15/10	17.82	296.76
		10/12/10	19.95	294.63
		11/16/10	9.58	305.00
		02/07/11	6.07	308.51
		05/02/11	6.54	308.04
		08/15/11	7.95	306.63
		11/07/11	7.18	307.40
		02/13/12	8.35	306.23
		05/01/12	8.09	306.49
		08/13/12	8.12	306.46
		11/15/12	9.46	305.12
		02/04/13	6.72	307.86
		05/06/13	8.43	306.15
		08/05/13	7.97	306.61
W-3	289.15	08/24/10	8.78	280.37
		08/31/10	8.92	280.23
		09/07/10	9.35	279.80
		09/15/10	9.65	279.50
		10/12/10	8.10	281.05
		11/16/10	7.08	282.07
		02/07/11	5.16	283.99
		05/02/11	5.25	283.90
		08/15/11	8.15	281.00
		11/07/11	5.19	283.96
		02/13/12	6.24	282.91
		05/01/12	3.42	285.73
		08/13/12	8.09	281.06
		11/15/12	7.06	282.09
		02/04/13	5.51	283.64
		05/06/13	6.37	282.78
		08/05/13	6.83	282.32

Table 1
MNA Pilot Study
Groundwater Elevation Data
Former BAE Facility
Lansdale, Pennsylvania

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Groundwater Elevation (ft)
W-4	293.40	08/09/10	8.92	284.48
		08/24/10	9.41	283.99
		08/31/10	9.62	283.78
		09/07/10	9.87	283.53
		09/15/10	10.18	283.22
		10/12/10	8.15	285.25
		11/16/10	7.10	286.30
		02/07/11	4.70	288.70
		05/02/11	4.56	288.84
		08/15/11	8.29	285.11
		11/07/11	5.01	288.39
		02/13/12	5.60	287.80
		05/01/12	6.36	287.04
		08/13/12	8.80	284.60
		11/15/12	6.97	286.43
		02/04/13	4.89	288.51
		05/06/13	6.00	287.40
		08/05/13	6.67	286.73
W-8	290.79	02/07/11	1.98	288.81
		05/02/11	2.06	288.73
		08/15/11	5.74	285.05
		11/07/11	2.49	288.30
		02/13/12	3.03	287.76
		05/01/12	3.77	287.02
		08/13/12	6.19	284.60
		11/15/12	4.39	286.40
		02/04/13	2.38	288.41
		05/06/13	3.50	287.29
		08/05/13	3.70	287.09
W-10	297.99	08/09/10	12.33	285.66
		08/24/10	12.14	285.85
		08/31/10	12.52	285.47
		09/07/10	12.92	285.07
		09/15/10	13.09	284.90
		10/12/10	11.25	286.74
		11/16/10	11.30	286.69
		02/07/11	8.55	289.44
		05/02/11	8.68	289.31
		08/15/11	11.30	286.69
		11/07/11	9.03	288.96
		02/13/12	9.63	288.36
		05/01/12	9.37	288.62
		08/13/12	11.42	286.57
		11/15/12	11.13	286.86
		02/04/13	9.23	288.76
		05/06/13	9.64	288.35
		08/05/13	10.80	287.19

Table 1
MNA Pilot Study
Groundwater Elevation Data
Former BAE Facility
Lansdale, Pennsylvania

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Groundwater Elevation (ft)
W-12	298.99	08/09/10	9.99	289.00
		08/24/10	10.35	288.64
		08/31/10	11.22	287.77
		09/07/10	11.90	287.09
		09/15/10	12.31	286.68
		10/12/10	9.28	289.71
		11/16/10	8.98	290.01
		02/07/11	6.90	292.09
		05/02/11	4.93	294.06
		08/15/11	9.19	289.80
		11/07/11	6.75	292.24
		02/13/12	6.82	292.17
		05/01/12	7.65	291.34
		08/13/12	9.42	289.57
		11/15/12	8.90	290.09
		02/04/13	7.10	291.89
		05/06/13	7.49	291.50
		08/05/13	8.63	290.36
W-13	NM	08/09/10	6.49	--
		11/16/10	5.85	--
		02/07/11	5.09	--
		05/02/11	5.42	--
		08/15/11	5.75	--
		11/07/11	5.32	--
		02/13/12	5.55	--
		05/01/12	5.54	--
		08/13/12	5.58	--
		11/15/12	5.88	--
		02/04/13	5.42	--
		05/06/13	5.75	--
		08/05/13	5.84	--

Table 1
MNA Pilot Study
Groundwater Elevation Data
Former BAE Facility
Lansdale, Pennsylvania

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Groundwater Elevation (ft)
W-14	302.84	08/09/10	14.75	288.09
		08/24/10	13.81	289.03
		08/31/10	14.92	287.92
		09/07/10	15.44	287.40
		09/15/10	15.78	287.06
		10/12/10	12.35	290.49
		11/16/10	12.43	290.41
		02/07/11	11.09	291.75
		05/02/11	10.91	291.93
		08/15/11	12.78	290.06
		11/07/11	10.96	291.88
		02/13/12	11.68	291.16
		05/01/12	11.56	291.28
		08/13/12	12.58	290.26
		11/15/12	12.41	290.43
		02/04/13	10.93	291.91
		05/06/13	11.84	291.00
		08/05/13	12.13	290.71
W-16	319.15	08/09/10	18.41	300.74
		11/16/10	14.18	304.97
		02/07/11	12.60	306.55
		05/02/11	10.84	308.31
		08/15/11	14.01	305.14
		11/07/11	11.60	307.55
		02/13/12	12.48	306.67
		05/01/12	12.92	306.23
		08/13/12	14.31	304.84
		11/15/12	13.74	305.41
		02/04/13	11.49	307.66
		05/06/13	12.26	306.89
		08/05/13	12.56	306.59
W-17	NM	08/09/10	9.81	--
		11/16/10	8.73	--
		02/07/11	7.93	--
		05/02/11	8.23	--
		08/15/11	8.68	--
		11/07/11	8.22	--
		02/13/12	8.43	--
		05/01/12	8.50	--
		08/13/12	8.58	--
		11/15/12	8.70	--
		02/04/13	8.08	--
		05/06/13	10.09	--
		08/05/13	8.64	--

NM = Not Measured
-- = Not Available/Not Applicable
TOC = Top of casing
ft = feet

Table 2
Summary of Groundwater Volatile Organic Compounds (VOCs) Analyses
Former BAE Facility
Lansdale, Pennsylvania

Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
A-1 (unknown)	05/27/80	GWM	--	--	--	--	--	7.1	--	55	--	--
	04/07/81	GWM	--	--	--	--	--	--	--	< 0.1	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	< 0.1	--	--
	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	60	--	--
A-2 (0-9.5')	05/27/80	GWM	--	--	--	--	--	132	--	1,290	--	--
	04/07/81	GWM	--	--	--	--	--	--	--	13	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	14.7	--	--
	04/20/82	CH2M-HILL	1.3	--	< 0.5	< 0.5	< 0.5	68.4	--	400	--	--
	04/20/82	CH2M-HILL	--	--	--	--	--	2	--	260.9	--	--
	05/17/83	CH2M-HILL	--	--	--	--	--	--	--	1	--	--
	11/17/92	GWM	5	5	5	5	--	5	5	5	10	--
	04/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	< 10	--	< 10	--	--
	03/24/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/13/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
A-3 (0-11')	05/27/80	GWM	--	--	--	--	--	0.1	--	55.5	1.1	--
	03/01/80	CH2M-HILL	--	--	--	--	--	< 1	--	--	--	--
	06/01/80	CH2M-HILL	< 1	< 1	< 1	--	< 1	< 1	< 1	6.8	--	--
	12/05/80	GWM	--	--	--	--	--	--	--	1.6	--	--
	04/07/81	GWM	--	--	--	--	--	--	--	0.8	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	12	--	--
	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	3.9	--	--
	05/17/83	CH2M-HILL	--	--	--	--	--	--	--	0.3	--	--
	03/18/86	CH2M-HILL	--	--	--	--	--	--	--	5	--	--
	05/01/86	CH2M-HILL	--	--	--	--	--	--	--	30	--	--
	06/10/86	GWM	--	--	--	--	--	--	--	19.5	--	--
	07/29/86	CH2M-HILL	--	--	--	--	--	--	--	19.5	--	--
	03/15/87	GWM	--	--	--	--	--	--	--	26.5	--	--
	09/01/87	CH2M-HILL	--	--	--	--	--	< 1	--	--	--	--
	09/15/87	GWM	--	--	--	--	--	--	--	0.8	--	--
	03/01/88	CH2M-HILL	--	--	--	--	--	< 1	--	--	--	--
	03/15/88	GWM	--	--	--	--	--	--	--	12	--	--
	03/21/88	CH2M-HILL	--	--	--	--	--	--	--	0.12	--	--
	09/15/88	GWM	--	--	--	--	--	--	--	< 1	--	--
	03/01/89	GWM	--	--	--	--	--	--	--	12	--	--
	10/16/89	GWM	--	--	--	--	--	ND	--	ND	--	--
	06/09/92	GWM	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5.0	< 5.0	< 5.0	< 10	--
	09/17/92	GWM	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5.0	< 5.0	< 5.0	< 10	--
	11/17/92	GWM	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5.0	< 5.0	< 5.0	< 10	--
	03/11/93	GWM	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5.0	< 5.0	< 5.0	< 10	--
	06/11/93	GWM	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5.0	< 5.0	< 5.0	< 10	--
	09/30/93	GWM	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5.0	< 5.0	< 5.0	< 10	--
	11/22/93	GWM	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5.0	< 5.0	< 5.0	< 10	--
	06/07/94	GWM	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5.0	< 5.0	< 5.0	< 10	--
	08/05/94	GWM	ND	ND	ND	ND	--	ND	ND	ND	ND	--
	11/09/94	GWM	< 1.1	< 1.4	< 2.1	< 1.9	--	< 1.3	< 1.8	< 1.7	< 2.6	--
	03/16/95	GWM	< 1	< 1	< 1	< 1	1	< 1	< 1	3.2	< 1	--

Table 2
Summary of Groundwater Volatile Organic Compounds (VOCs) Analyses
Former BAE Facility
Lansdale, Pennsylvania

Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
A-3 (cont'd)	05/16/95	GWM	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--
Duplicate	08/21/95	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	< 5	< 10	--
(0-11')	11/08/95	GWM	1	1	1	1	1	1	1	0.7	1	--
	03/29/96	GWM	< 1	< 1	< 1	< 2	--	< 1	< 1	ND	< 2	--
	06/14/96	GWM	< 1	< 1	< 1	< 2	--	< 1	< 1	ND	< 2	--
	09/19/96	GWM	< 1	< 1	< 1	< 2	--	< 1	< 1	4	< 2	--
	12/13/96	GWM	< 1	< 1	< 1	< 2	--	< 1	< 1	2	< 2	--
	03/26/97	GWM	< 1	< 1	< 1	< 2	--	< 1	< 1	4	< 2	--
	06/04/97	GWM	< 1	< 1	< 1	< 2	--	< 1	< 1	ND	< 2	--
	04/01/98	EPA RI/FS	< 10	< 10	< 10	ND	--	< 10	--	2 J	< 10	--
	04/29/98	GWM	< 1	< 1	< 1	< 2	--	< 1	< 1	1.6	< 2	--
Duplicate	08/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	< 10	--	< 10	< 10	--
	08/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	< 10	--	< 10	< 10	--
	10/15/98	GWM	ND	< 1	< 1	< 2	--	ND	< 1	ND	ND	--
	06/18/99	GWM	< 1	< 1	< 1	< 2	--	< 1	< 1	< 1	< 2	--
	10/06/99	GWM	< 1	< 1	< 1	< 2	--	< 1	< 1	< 1	< 2	--
Duplicate	05/31/00	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 2	--
	10/31/00	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 2	--
Duplicate	05/10/01	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	1.5	< 2	--
	11/08/01	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 2	--
	04/11/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 2	--
	06/13/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 2	--
	06/13/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 2	--
	11/18/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 2	--
	11/06/03	GWM	< 1	< 1	< 1	< 1	--	< 2	< 1	< 1	< 1	--
	04/22/04	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	--
	09/27/04	GWM	< 2	< 2	< 2	< 2	--	< 1	< 2	< 1	< 2	--
	09/27/04	GWM	< 2	< 2	< 2	< 2	--	< 1	< 2	< 1	< 2	--
	01/27/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 5	< 2	--
	01/27/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 5	< 2	--
	04/26/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 5	< 2	--
	04/12/06	GWM	--	< 2	< 2	< 2	--	< 1	< 2	< 1	< 2	--
	10/11/06	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	04/26/07	GWM	--	< 5	< 5	< 5	--	< 5	< 5	< 5	< 5	--
	03/19/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 1	< 1	< 1	--
	06/17/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	03/19/08*	GWM	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	< 1	< 2	--
	08/04/09	GWM	--	< 1	< 0.9	< 1	--	< 1	< 1	< 1	< 2	--
	03/02/10	GWM	--	< 1	< 0.9	< 1	--	< 1	< 1	< 1	< 2	--
	08/05/10	GWM	--	< 1	< 0.9	< 1	--	< 1	< 1	< 1	< 2	--
	08/11/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	11/16/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	02/16/11	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	08/17/11*	MNA/GWM	--	< 1	< 0.8	< 1	--	< 0.8	< 0.8	< 0.8	< 1	--
	02/16/12	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	08/22/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/08/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--

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Former BAE Facility
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Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
A-4	12/05/80	GWM	--	--	--	--	--	--	--	1	--	--
(0-10')	04/07/81	GWM	--	--	--	--	--	--	--	< 0.1	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	1.1	--	--
	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	2.4	--	--
	05/17/83	CH2M-HILL	--	--	--	--	--	--	--	3.5	--	--
	03/18/86	CH2M-HILL	--	--	--	--	--	--	--	< 1	--	--
	09/17/92	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	< 5	< 10	--
	06/11/93	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	< 5	< 10	--
	09/30/93	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	< 5	< 10	--
	11/22/93	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	< 5	< 10	--
	04/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	< 10	--	2 B	< 10	--
	11/08/01	GWM	< 1	< 1	< 1	< 1	--	< 2	< 1	< 1	< 2	--
Duplicate	01/27/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 2	< 2	--
	04/26/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	1	< 2	--
	03/21/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	03/21/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	06/17/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	11/16/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/22/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/22/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/08/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
A-5	05/27/80	GWM	--	--	--	--	--	121	--	895	--	--
(0-12')	04/07/81	GWM	--	--	--	--	--	--	--	147	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	240	--	--
	04/19/82	CH2M-HILL	11.2	--	< 0.5	< 0.5	30.8	77.9	--	300	--	--
SS	04/19/82	CH2M-HILL	27.9	--	1.1	< 0.5	67.1	187.7	--	84.7	--	--
TS	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	217.7	--	--
	05/17/83	CH2M-HILL	--	--	--	--	--	--	--	102	--	--
	06/09/92	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	< 5	< 10	--
	04/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	4 J	--	5 B	< 10	--
	01/27/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 2	< 2	--
	04/26/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	3.3	< 2	--
	03/21/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	06/17/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	11/16/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/22/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	1 J	< 1	--
	08/22/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/08/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
A-6	05/27/80	GWM	--	--	--	--	--	254	--	6,040	--	--
(0-12')	04/07/81	GWM	--	--	--	--	--	--	--	386	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	396.5	--	--
	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	700	--	--
	05/17/83	CH2M-HILL	--	--	--	--	--	--	--	330	--	--
	03/31/94	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	< 5	< 10	--
	04/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	< 10	--	15	< 10	--
	01/27/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 2	< 2	--

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Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
A-6 (cont'd) (0-12')	04/26/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	10	< 2	--
	03/21/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	06/17/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	3 J	< 1	--
	11/16/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/22/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	2 J	< 1	--
	08/22/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	2 J	< 1	--
	08/08/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	5 J	< 1	--
A-7 (0-21')	05/27/80	GWM	--	--	--	--	--	74	--	58,000	--	--
	04/07/81	GWM	--	--	--	--	--	--	--	2,920	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	837	--	--
	04/19/82	CH2M-HILL	316.2	--	13.1	< 0.5	55.7	11.7	--	2,000	--	--
SS	04/19/82	CH2M-HILL	317.1	--	15.3	< 0.5	58.8	14.6	--	1,256	--	--
TS	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	1,490	--	--
	05/17/83	CH2M-HILL	--	--	--	--	--	--	--	720	--	--
	11/17/92	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	< 5	< 10	--
	09/30/93	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	< 5	< 10	--
	04/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	< 10	--	16	< 10	--
	04/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	< 10	--	15	< 10	--
	10/06/99	GWM	< 1	< 1	< 1	< 2	--	< 1	< 1	11	< 2	--
	01/27/05	GWM	< 2	< 2	< 2	< 2	8.3	< 1	< 2	50	< 2	--
	04/26/05	GWM	< 2	< 2	< 2	< 2	9.1	< 1	< 2	53	< 2	--
	03/21/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	06/17/08	PDI	< 0.8	< 1	< 0.8	< 1	1 J	< 0.8	< 0.8	10	< 1	--
	11/16/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/22/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/22/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	2 J	< 1	--
	08/08/13	MNA	< 0.8	< 1	< 0.8	< 1	3 J	< 0.8	< 0.8	11	< 1	--
A-8 (0-12')	05/27/80	GWM	--	--	--	--	--	1	--	4,500	--	--
	04/07/81	GWM	--	--	--	--	--	--	--	4.8	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	765	--	--
	03/11/93	GWM	< 5	< 5	< 5	< 5	--	< 5	--	< 5	< 10	--
	04/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	< 10	--	12	< 10	--
	01/27/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 2	< 2	--
	04/26/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	2.6	< 2	--
	03/20/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/22/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/22/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/13/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
A-9 (0-13')	05/27/80	GWM	--	--	--	--	--	--	--	16,663	--	--
	04/07/81	GWM	--	--	--	--	--	--	--	81	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	223	--	--
	04/19/82	CH2M-HILL	108.4	--	6.6	< 0.5	13.3	7.8	--	1,500	--	--
SS	04/19/82	CH2M-HILL	68.3	--	3.1	< 0.5	10.9	6.8	--	1,090	--	--
TS	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	729	--	--
	05/17/83	CH2M-HILL	--	--	--	--	--	--	--	1,900	--	--
	03/18/86	CH2M-HILL	--	--	--	--	--	--	--	256	--	--
	06/10/86	GWM	--	--	--	--	--	--	--	433.5	--	--

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			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
A-9 (cont'd)	03/15/87	GWM	--	--	--	--	--	--	--	382	--	--
(0-13')	04/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	< 10	--	81	< 10	--
	01/27/05	GWM	< 2	< 2	< 2	< 2	6.9	< 1	< 2	50	< 2	--
	04/26/05	GWM	< 2	< 2	< 2	< 2	3.7	< 1	< 2	32	< 2	--
	03/20/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	1 J	< 1	--
	08/22/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	2 J	< 1	--
Duplicate	08/22/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	2 J	< 1	--
	08/22/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	4 J	< 1	--
	08/13/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
A-10	05/05/80	GWM	--	--	--	--	--	92	--	16,773	--	--
(4-104')	05/27/80	GWM	--	--	--	--	--	39.6	--	9,240	--	--
	04/07/81	GWM	--	--	--	--	--	--	--	796	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	734	--	--
A-11	05/27/80	GWM	--	--	--	--	--	48.9	--	6,810	--	--
(0-22')	02/02/81	CH2M-HILL	--	--	--	--	--	--	--	634	--	--
	02/12/81	GWM	--	--	--	--	--	--	--	211	--	--
	04/07/81	GWM	--	--	--	--	--	--	--	1,340	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	1,606	--	--
	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	450	--	--
	05/17/83	CH2M-HILL	--	--	--	--	--	--	--	1,900	--	--
	07/19/84	CH2M-HILL	--	--	--	--	--	--	--	644	--	--
	03/18/86	CH2M-HILL	--	--	--	--	--	--	--	39.4	--	--
	05/01/86	CH2M-HILL	--	--	--	--	--	--	--	201.8	--	--
	06/10/86	GWM	--	--	--	--	--	--	--	288	--	--
	07/29/86	CH2M-HILL	--	--	--	--	--	--	--	288	--	--
	03/15/87	GWM	--	--	--	--	--	--	--	95.7	--	--
	09/01/87	CH2M-HILL	--	--	--	--	--	3.7	--	--	--	--
	09/15/87	GWM	--	--	--	--	--	--	--	218.5	--	--
	03/15/88	GWM	--	--	--	--	--	--	--	75.9	--	--
	03/21/88	CH2M-HILL	--	--	--	--	--	8.91	--	--	--	--
	09/15/88	GWM	--	--	--	--	--	--	--	190	--	--
	03/01/89	GWM	--	--	--	--	--	--	--	4.1	--	--
	06/09/92	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	26	< 10	--
	09/17/92	GWM	8	< 5	< 5	< 5	--	< 5	< 5	150	< 10	--
	03/01/93	GWM	--	--	--	--	--	--	--	--	ND	--
	03/11/93	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	27	< 10	--
	06/11/93	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	11	< 10	--
	11/22/93	GWM	57	< 5	44	< 5	--	< 5	< 5	99	< 10	--
	11/23/93	GWM	--	--	--	--	--	--	--	--	ND	--
	03/31/94	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	< 5	< 10	--
	11/09/94	GWM	86	< 1.4	110	< 1.9	--	3.3	< 1.8	130	< 2.6	--
	05/16/95	GWM	3	< 1	22	< 1	4.1	3.3	< 1	189	< 1	--
	11/08/95	GWM	5	1	5	1	3	3	1	48	1	--
	12/13/96	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	1	< 2	--
	03/26/97	GWM	1	< 1	< 1	< 2	--	2	< 1	29	< 2	--
	06/04/97	GWM	3	< 1	1	< 2	--	1	< 1	45	< 2	--
	04/01/98	EPA RI/FS	1 J	< 10	< 10	< 10	--	< 10	--	19 L	< 10	--

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			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
A-11 (cont'd) (0-22')	04/29/98	GWM	1.8	< 1	< 1	< 2	--	1.5	< 1	26	< 2	--
	06/01/98	GWM	7	< 10	5 J	< 10	--	2 J	3 J	53	< 10	--
	10/15/98	GWM	20	< 1	7.3	< 2	--	5.2	< 1	200	< 2	--
	12/13/98	GWM	< 1	< 1	< 1	< 2	--	< 1	< 1	1	< 2	--
	06/18/99	GWM	12	< 1	4.8	< 2	--	4	< 1	178	< 2	--
	05/31/00	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	13	< 2	--
	10/31/00	GWM	8.2	2.5	4.8	< 1	--	2.2	< 1	131	< 2	--
	05/10/01	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	12	< 2	--
	11/13/01	GWM	1.6	1.3	1.3	< 1	--	< 1	< 1	36	< 2	--
	04/22/02	GWM	6.2	< 1	2.4	< 1	--	1.7	< 1	85	< 2	--
	11/20/02	GWM	15	1	23	< 1	--	1.3	< 1	86	< 2	--
	06/13/03	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	6.4	< 2	--
	11/06/03	GWM	< 1	< 1	< 1	< 1	--	< 2	< 1	4.2	< 2	--
	04/22/04	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	4.5	< 1	--
	09/27/04	GWM	4.6	< 2	2.1	< 2	--	< 1	< 2	21	< 2	--
	01/27/05	GWM	8.1	< 2	8.3	< 2	--	1.3	< 2	47	< 2	--
	04/26/05	GWM	2.2	< 2	< 2	< 2	--	1.1	< 2	45	< 2	--
	04/12/06	GWM	--	< 2	< 2	< 2	--	< 1	< 2	44	< 2	--
	03/20/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	06/17/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	2 J	< 1	--
	08/12/10	MNA	1 J	< 1	< 0.8	< 1	0.9 J	< 0.8	< 0.8	29	< 1	--
	11/17/10	MNA	< 0.8	< 1	< 0.8	< 1	2 J	< 0.8	< 0.8	18	< 1	--
	08/22/11	MNA	< 0.8	< 1	< 0.8	< 1	1 J	< 0.8	< 0.8	16	< 1	--
	08/22/12	MNA	< 0.8	< 1	< 0.8	< 1	2 J	< 0.8	< 0.8	18	< 1	--
Duplicate	08/22/12	MNA	< 0.8	< 1	< 0.8	< 1	2 J	< 0.8	< 0.8	18	< 1	--
	08/08/13	MNA	< 0.8	< 1	< 0.8	< 1	3 J	< 0.8	< 0.8	15	< 1	--
A-12 (0-24')	05/27/80	GWM	--	--	--	--	--	61	--	17,900	--	--
	02/12/81	GWM	--	--	--	--	--	--	--	346	--	--
	04/07/81	GWM	--	--	--	--	--	--	--	860	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	1,264	--	--
	04/19/82	CH2M-HILL	187.5	--	12.2	< 0.5	51.2	21.5	--	2,000	--	--
SS	04/19/82	CH2M-HILL	180.8	--	16.2	< 0.5	52.8	30.4	--	1,261	--	--
TS	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	1,462	--	--
	05/17/83	CH2M-HILL	--	--	--	--	--	--	--	1,500	--	--
	03/31/94	GWM	--	< 5	< 5	< 5	--	< 5	< 5	< 5	< 10	--
	06/07/94	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	84	< 10	--
	08/05/94	GWM	1.6	< 1	1.4	ND	--	1.9	ND	56	ND	--
	11/09/94	GWM	2.9	< 1.4	2.9	< 1.9	--	1.6	< 1.8	99	< 2.6	--
	03/16/95	GWM	1.8	< 1	ND	ND	1.5	2.2	0	26.4	< 2	--
	05/16/95	GWM	3	< 1	1.8	< 1	3.2	1.9	< 1	82	< 1	--
	08/21/95	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	120	< 10	--
	11/08/95	GWM	2	1	1	1	3	1	1	47	1	--
	03/29/96	GWM	< 1	< 1	< 1	< 1	ND	ND	< 1	5	< 2	--
	06/14/96	GWM	2	< 1	1	< 1	5	2	< 1	80	< 2	--
	09/19/96	GWM	1	< 1	< 1	< 1	--	ND	< 1	36	< 2	--
	12/13/96	GWM	< 1	< 1	< 1	< 2	--	2	< 1	9	ND	--
	03/26/97	GWM	ND	ND	ND	ND	--	1	< 1	21	< 2	--

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Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
A-12 (cont'd) (0-24')	06/04/97	GWM	ND	ND	ND	ND	--	ND	< 1	39	< 2	--
	04/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	< 10	--	12	< 10	--
	04/29/98	GWM	< 1	< 1	< 1	< 2	--	< 1	--	4.2	< 2	--
	08/01/98	EPA RI/FS	25 J	< 200	< 200	< 200	--	28 J	--	1,200[4]	< 200	--
	10/15/98	GWM	1.1	< 1	< 1	< 2	--	ND	< 1	25	< 2	--
	10/30/98	GWM	--	--	--	--	--	< 1	--	4.2	--	--
	06/18/99	GWM	1.2	< 1	< 1	< 2	--	< 1	< 1	29	< 2	--
	10/06/99	GWM	< 1	< 1	< 1	< 2	--	< 1	< 1	16	< 2	--
	05/31/00	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	14	< 2	--
	10/31/00	GWM	1.3	< 1	< 1	< 1	--	1.3	< 1	44	< 2	--
	05/10/01	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	18	< 2	--
	11/14/01	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	34	< 2	--
	04/23/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	8.8	< 2	--
	11/20/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	13	< 2	--
	06/13/03	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	13	< 2	--
	11/06/03	GWM	< 1	< 1	< 1	< 1	--	< 2	< 1	8.4	< 2	--
	04/22/04	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	--
	09/27/04	GWM	< 2	< 2	< 2	< 2	--	< 1	< 2	11	< 2	--
	01/26/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	5.1	< 2	--
	04/26/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	2.7	< 2	--
	04/12/06	GWM	--	< 2	< 2	< 2	--	< 1	< 2	22	< 2	--
	10/11/06	GWM	--	--	--	--	--	0.24 J	--	14	--	--
	04/26/07	GWM	--	< 5	< 5	< 5	--	< 5	< 5	< 5	< 5	--
	03/19/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	2 J	< 1	--
	03/19/08*	GWM	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	2 J	< 2	--
	06/18/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	4 J	< 1	--
	08/04/09	GWM	--	< 1	< 0.9	< 1	--	< 1	< 1	22	< 2	--
	03/02/10	GWM	--	< 1	< 0.9	< 1	--	< 1	< 1	< 1	< 2	--
	08/05/10	GWM	--	< 1	< 0.9	< 1	--	< 1	< 1	15	< 2	--
	08/12/10	MNA	< 0.8	< 1	< 0.8	< 1	1 J	< 0.8	< 0.8	18	< 1	--
	11/17/10	MNA	< 0.8	< 1	< 0.8	< 1	2 J	< 0.8	< 0.8	10	< 1	--
	02/09/11	GWM	--	--	--	--	--	< 1	--	2 J	--	--
	08/22/11*	MNA/GWM	--	< 1	< 0.8	< 1	--	< 0.8	< 0.8	12	< 1	--
	02/16/12	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	08/22/12	MNA	< 0.8	< 1	< 0.8	< 1	1 J	< 0.8	< 0.8	12	< 1	--
	08/08/13	MNA	< 0.8	< 1	< 0.8	< 1	2 J	< 0.8	< 0.8	11	< 1	--
A-13 (0-19')	05/27/80	GWM	--	--	--	--	--	24.5	--	6,580	--	--
	12/05/80	GWM	--	--	--	--	--	--	--	1,828	--	--
	04/07/81	GWM	--	--	--	--	--	--	--	948	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	2,254	--	--
	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	2,000	--	--
	03/17/83	CH2M-HILL	--	--	--	--	--	--	--	1,200	--	--
	03/31/94	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	27	< 10	--
	06/07/94	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	46	< 10	--
	08/05/94	GWM	2	ND	1.3	ND	--	1.9	ND	60	ND	--
	11/09/94	GWM	< 1.1	< 1.4	< 2.1	< 1.9	--	2.5	< 1.8	49	< 2.6	--
	03/16/95	GWM	1.6	< 1	< 1	< 2	2.4	2	< 1	35.1	< 2	--

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Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
A-13 (cont'd) (0-19')	05/16/95	GWM	1.7	< 1	< 1	< 1	7.2	1.6	< 1	56	< 1	--
	08/21/95	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	48	< 10	--
	11/08/95	GWM	2	1	1	1	3	2	1	52	1	--
	03/29/96	GWM	1	< 1	< 1	< 2	5	1	< 1	40	< 2	--
	06/14/96	GWM	1	< 1	< 1	< 1	5	1	< 1	75	< 2	--
	09/19/96	GWM	1	< 1	< 1	< 2	--	2	< 1	40	< 2	--
	12/13/96	GWM	< 1	< 1	< 1	< 2	--	3	< 1	22	< 2	--
	03/26/97	GWM	ND	ND	ND	ND	--	ND	ND	26	ND	--
	06/04/97	GWM	< 1	< 1	< 1	< 2	--	< 1	< 1	8	ND	--
	04/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	< 10	--	19	< 10	--
	04/29/98	GWM	< 1	< 1	< 1	< 2	--	ND	ND	6.9	ND	--
	08/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	2 J	--	31	< 10	--
	10/15/98	GWM	< 1	< 1	< 1	< 2	--	1.4	< 1	35	< 2	--
	10/30/98	GWM	ND	--	--	--	--	ND	--	6.9	--	--
	06/18/99	GWM	1.3	< 1	< 1	< 2	--	< 1	< 1	26	< 2	--
	10/06/99	GWM	1.3	< 1	< 1	< 2	--	< 1	< 1	23	< 2	--
	05/31/00	GWM	1.2	< 1	< 1	< 1	--	< 1	< 1	< 1	< 2	--
	10/31/00	GWM	1	< 1	< 1	< 1	--	< 1	< 1	21	< 2	--
	06/06/01	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	28	< 2	--
	11/13/01	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	21	< 2	--
	04/11/02	GWM	1.5	< 1	< 1	< 1	--	< 1	< 1	23	< 2	--
	11/19/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	15	< 2	--
	06/13/03	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	20.6	< 2	--
	11/06/03	GWM	< 1	< 1	< 1	< 1	--	< 2	< 1	11.6	< 2	--
	04/22/04	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	6.8	< 1	--
	09/27/04	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	24	< 2	--
	01/26/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	20	< 2	--
	04/26/05	GWM	< 2	< 2	< 2	< 2	2.5	< 1	< 2	25	< 2	--
	04/12/06	GWM	--	< 2	< 2	< 2	--	< 1	< 2	16	< 2	--
	10/11/06	GWM	--	--	--	--	--	0.56 J	--	17	--	--
	04/26/07	GWM	--	< 5	< 5	< 5	--	< 5	< 5	6.9	< 5	--
	03/19/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	9	< 1	--
	03/19/08*	GWM	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	8	< 2	--
	06/18/08	PDI	< 0.8	< 1	< 0.8	< 1	1 J	< 0.8	< 0.8	14	< 1	--
	08/04/09	GWM	--	< 1	< 0.9	< 1	--	< 1	< 1	24	< 2	--
	03/02/10	GWM	--	< 1	< 0.9	< 1	--	< 1	< 1	24	< 2	--
	08/05/10	GWM	--	< 1	< 0.9	< 1	--	< 1	< 1	22	< 2	--
	08/12/10	MNA	< 0.8	< 1	< 0.8	< 1	2 J	1 J	< 0.8	23	< 1	--
	11/17/10	MNA	< 0.8	< 1	< 0.8	< 1	2 J	0.9 J	< 0.8	24	< 1	--
	02/09/11	GWM	--	--	--	--	--	< 1	--	23	--	--
	08/22/11*	MNA/GWM	--	< 1	< 0.8	< 1	--	< 0.8	< 0.8	15	< 1	--
	02/16/12	GWM	--	--	--	--	--	< 1	--	22	--	--
	08/22/12	MNA	< 0.8	< 1	< 0.8	< 1	2 J	1 J	< 0.8	28	< 1	--
	08/08/13	MNA	0.8 J	< 1	< 0.8	< 1	3 J	0.9 J	< 0.8	28	< 1	--
A-14 (0-19')	05/27/80	GWM	--	--	--	--	--	22.1	--	1,815	--	--
	12/05/80	GWM	--	--	--	--	--	--	--	424	--	--
	04/07/81	GWM	--	--	--	--	--	--	--	33	--	--

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			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
A-14 (cont'd) (0-19')	05/08/81	GWM	--	--	--	--	--	--	--	1,289	--	--
	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	800	--	--
	05/17/83	CH2M-HILL	--	--	--	--	--	--	--	400	--	--
	03/18/86	CH2M-HILL	--	--	--	--	--	--	--	85.2	--	--
	05/01/86	CH2M-HILL	--	--	--	--	--	--	--	161.2	--	--
	06/10/86	GWM	--	--	--	--	--	--	--	267	--	--
	03/15/87	GWM	--	--	--	--	--	--	--	55.3	--	--
	09/01/87	CH2M-HILL	--	--	--	--	--	8.1	--	--	--	--
	09/15/87	GWM	--	--	--	--	--	--	--	246	--	--
	03/15/88	GWM	--	--	--	--	--	--	--	117	--	--
	03/21/88	CH2M-HILL	--	--	--	--	--	9.71	--	--	--	--
	09/15/88	GWM	--	--	--	--	--	--	--	190	--	--
	03/01/89	GWM	--	--	--	--	--	--	--	40	--	--
	06/09/92	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	37	< 10	--
	09/17/92	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	67	< 10	--
	11/17/92	GWM	< 6	< 5	< 5	< 5	--	5	< 5	110	< 5	--
	06/11/93	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	63	< 10	--
	09/30/93	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	87	< 10	--
	11/22/93	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	78	< 10	--
	06/07/94	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	69	< 10	--
	08/05/94	GWM	1.9	ND	1.3	ND	--	2.2	ND	65	ND	--
	11/09/94	GWM	< 2.2	< 2.8	< 4.2	< 3.8	--	3.8	< 3.6	100	< 5.2	--
	03/16/95	GWM	1.2	< 1	1.1	< 1	1.6	1.3	< 1	31.9	< 1	--
	05/16/95	GWM	2.2	< 1	1.1	< 1	3.4	1.8	< 1	83	< 1	--
	08/21/95	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	110	< 10	--
	11/08/95	GWM	2	1	1	1	4	2	1	52	1	--
	03/29/96	GWM	< 5	< 5	< 5	< 5	2	1	< 1	27	< 2	--
	06/14/96	GWM	< 5	< 5	< 5	< 5	2	< 1	< 1	37	< 2	--
	09/19/96	GWM	2	< 1	< 1	< 2	--	2	< 1	58	< 2	--
	12/13/96	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	10	< 1	--
	03/26/97	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	20	< 1	--
	06/04/97	GWM	< 1	< 1	< 1	< 2	--	< 1	< 1	20	< 2	--
	04/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	< 10	--	22	< 10	--
	04/29/98	GWM	< 1	< 1	< 1	< 2	--	1.1	< 1	7.6	< 2	--
	08/01/98	EPA RI/FS	2	< 10	< 10	< 10	--	1 J	--	70	< 10	--
	10/15/98	GWM	2.1	< 1	< 1	< 2	--	1.6	< 1	60	< 2	--
	04/26/04	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	11	< 2	--
	09/27/04	GWM	< 2	< 2	< 2	< 2	5.9	< 1	< 2	3.8	< 2	--
	01/26/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	10	< 2	--
	04/26/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	11	< 2	--
	10/11/06	GWM	--	--	--	--	--	< 1	--	1.3	--	--
	04/26/07	GWM	--	< 5	< 5	< 5	--	< 5	< 5	< 5	< 5	--
	03/20/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 1	3 J	< 1	--
	06/18/08	PDI	< 0.8	< 1	< 0.8	< 1	2 J	< 0.8	< 0.8	9	< 1	--
	03/20/08*	GWM	< 1	< 1	< 0.9	< 1	< 1	< 1	< 1	2 J	< 2	--
	08/04/09	GWM	--	< 1	< 0.9	< 1	--	< 1	< 1	2 J	< 2	--
	03/02/10	GWM	--	< 1	< 0.9	< 1	--	< 1	< 1	< 1	< 2	--

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Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
A-14 (cont'd) (0-19')	08/05/10	GWM	--	< 1	< 0.9	< 1	--	< 1	< 1	7	< 2	--
	08/11/10	MNA	< 0.8	< 1	< 0.8	< 1	1 J	< 0.8	< 0.8	3 J	< 1	--
	11/17/10	MNA	< 0.8	< 1	< 0.8	< 1	2 J	< 0.8	< 0.8	19	< 1	--
	02/09/11	GWM	--	--	--	--	--	< 1	--	7	--	--
	08/22/11*	MNA/GWM	--	< 1	< 0.8	< 1	--	< 0.8	< 0.8	11	< 1	--
	02/16/12	GWM	--	--	--	--	--	< 1	--	6	--	--
	08/22/12	MNA	< 0.8	< 1	< 0.8	< 1	3 J	< 0.8	< 0.8	4 J	< 1	--
	08/08/13	MNA	< 0.8	< 1	< 0.8	< 1	3 J	< 0.8	< 0.8	5 J	< 1	--
A-15 (unknown)	04/07/81	GWM	--	--	--	--	--	--	--	2.3	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	7.3	--	--
	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	18.8	--	--
	05/17/83	CH2M-HILL	--	--	--	--	--	--	--	6.3	--	--
A-16 (0-9.5')	04/07/81	GWM	--	--	--	--	--	--	--	7.6	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	17.9	--	--
	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	65	--	--
	05/17/83	CH2M-HILL	--	--	--	--	--	--	--	70	--	--
	03/19/86	CH2M-HILL	--	--	--	--	--	--	--	< 1	--	--
	03/11/93	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	< 5	< 10	--
	03/17/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
A-17 (0-11.5')	04/07/81	GWM	--	--	--	--	--	--	--	1,890	--	--
	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	6,000	--	--
Duplicate	03/17/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	3 J	< 1	--
	03/17/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	3 J	< 1	--
	08/15/11	DRY										
A-18 (0-13')	06/10/81	GWM	--	--	--	--	--	--	--	201.1	--	--
	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	6,000	--	--
	03/19/86	CH2M-HILL	--	--	--	--	--	--	--	221	--	--
	05/01/86	CH2M-HILL	--	--	--	--	--	--	--	201	--	--
	03/15/87	GWM	--	--	--	--	--	--	--	< 1	--	--
	04/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	< 10	--	17 L	< 10	--
	01/26/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 1	< 2	--
	03/17/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	4 J	< 1	--
	08/15/11	DRY										
FOX MW-1 (unknown)	04/11/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 2	--
	05/14/03	GWM	< 10	< 10	< 10	< 10	6 B	< 10	< 10	< 4 B	< 10	--
	01/25/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 1	< 2	--
	04/27/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 1	< 2	--
	06/19/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/10/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	11/19/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/19/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/06/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
FOX MW-2 (unknown)	04/11/02	GWM	10	< 10	6.7	< 10	--	< 10	< 10	14	< 2	--
	05/01/03	GWM	12	< 0.5	8 J	< 0.5	< 0.5	< 0.5	< 0.5	13	< 0.5	--
	05/14/03	GWM	11	< 10	7 J	< 10	11 B	< 10	< 10	23	6 B	--
	01/25/05	GWM	9.8	< 2	6.7	< 2	< 2	< 1	< 2	12	< 2	--
Duplicate	04/27/05	GWM	13	< 2	9.2	< 2	< 2	< 1	< 2	16	< 2	--

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Former BAE Facility
Lansdale, Pennsylvania

Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
FOX MW-2 (cont'd)	04/27/05	GWM	13	< 2	9.2	< 2	< 2	< 1	< 2	16	< 2	--
Duplicate	06/19/08	PDI	11	< 1	6	< 1	< 0.8	< 0.8	< 0.8	12	< 1	--
	06/19/08	PDI	11	< 1	7	< 1	< 0.8	< 0.8	< 0.8	13	< 1	--
	08/10/10	MNA	8	< 1	7	< 1	< 0.8	< 0.8	< 0.8	12	< 1	--
	11/16/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/16/11	MNA	7	< 1	6	< 1	< 0.8	< 0.8	< 0.8	11	< 1	--
	08/15/12	MNA	8	< 1	9	< 1	< 0.8	< 0.8	< 0.8	12	< 1	--
	08/07/13	MNA	11	< 1	11	< 1	< 0.8	< 0.8	< 0.8	15	< 1	--
FOX MW-3	04/11/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	--
(unknown)	05/17/03	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 2	--
FOX MW-4	05/14/03	GWM	< 10	< 10	< 10	< 10	2 B	< 10	< 10	< 10	< 10	--
(unknown)	01/25/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 1	< 2	--
FOX MW-5	04/11/02	GWM	6.5	6.3	< 10	< 10	--	1.1	< 10	56	ND	--
(unknown)	05/20/02	GWM	6.5	6.3	< 1	< 1	--	1.1	< 1	56	< 2	--
Duplicate	05/14/03	GWM	15	< 10	5 J	< 10	6 B	2 J	< 10	120	8 B	--
	05/14/03	GWM	18	< 10	16	< 10	< 3 B	2 J	< 10	130	< 10	--
	01/25/05	GWM	17	< 2	12	< 2	< 2	1.5	< 2	93	< 2	--
	04/27/05	GWM	20	< 2	17	< 2	< 2	1.5	< 2	93	< 2	--
	06/19/08	PDI	19	< 1	1 J	< 1	2 J	1 J	< 0.8	100	< 1	--
	08/24/09	PDI	17	< 1	19	< 1	2 J	1 J	< 0.8	100	< 1	--
	08/10/10	MNA	15	< 1	19	< 1	2 J	2 J	< 0.8	110	< 1	--
	11/16/10	MNA	10	< 1	3 J	< 1	1 J	1 J	< 0.8	78	< 1	--
	02/16/11	MNA	12	< 1	13	< 1	2 J	1 J	< 0.8	92	< 1	--
	05/03/11	MNA	12	< 1	< 0.8	< 1	1 J	1 J	< 0.8	79	< 1	--
	08/16/11	MNA	12	< 1	< 0.8	< 1	1 J	1 J	< 0.8	92	< 1	--
	11/08/11	MNA	11	< 1	10	< 1	1 J	1 J	< 0.8	81	< 1	--
	02/14/12	MNA	13	< 1	7	< 1	2 J	2 J	< 0.8	96	< 1	--
	05/02/12	MNA	15	< 1	14	< 1	2 J	2 J	< 0.8	94	< 1	--
	08/15/12	MNA	13	< 1	14	< 1	2 J	2 J	< 0.8	92	< 1	--
	11/20/12	MNA	9	< 1	11	< 1	2 J	2 J	< 0.8	93	< 1	--
Duplicate	11/20/12	MNA	10	< 1	11	< 1	2 J	2 J	< 0.8	92	< 1	--
	02/07/13	MNA	12	< 1	15	< 1	1 J	1 J	< 0.8	84	< 1	--
	05/09/13	MNA	14	< 1	20	< 1	2 J	2 J	< 0.8	100	< 1	--
	08/12/13	MNA	14	< 1	15	< 1	1 J	2 J	< 0.8	93	< 1	--
NP-21	09/29/80	GWM	7.2	--	--	--	--	0.9	--	5.9	--	--
(50-500')	04/08/80	CH2M-HILL	--	--	--	--	--	--	--	5.7	--	--
	05/01/80	CH2M-HILL	--	--	--	--	--	--	--	30	--	--
	06/01/80	CH2M-HILL	4	--	< 1	< 1	< 1	< 1	< 1	11	--	--
	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	20 J	--	--
	01/03/84	CH2M-HILL	5.3	--	0.6	--	0.2	--	--	10.8	--	--
	01/09/84	CH2M-HILL	6.4	--	0.7	--	< 0.2	--	--	11.2	--	--
	01/23/84	CH2M-HILL	5.6	--	2.3	--	0.2	--	--	11	--	--
	01/30/84	CH2M-HILL	5.6	--	0.8	--	0.2	--	--	10.6	--	--
	02/02/84	CH2M-HILL	5.5	--	0.8	--	< 0.2	--	--	10.2	--	--
	02/06/84	CH2M-HILL	5.3	--	0.8	--	0.3	--	--	10.2	--	--

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Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
NP-21 (cont'd) (50-500')	02/10/84	CH2M-HILL	5.5	--	0.8	--	0.2	--	--	10	--	--
	02/13/84	CH2M-HILL	5.4	--	0.9	--	0.2	--	--	10.4	--	--
	02/16/84	CH2M-HILL	5.2	--	0.8	--	0.5	--	--	9.9	--	--
	02/21/84	CH2M-HILL	4.5	--	0.8	--	0.2	--	--	8.1	--	--
	02/27/84	CH2M-HILL	8.9	--	1.3	--	0.2	--	--	14.2	--	--
	03/12/84	CH2M-HILL	8.9	--	1.2	--	0.3	--	--	10.2	--	--
	03/19/84	CH2M-HILL	9.3	--	1.3	--	1.2	--	--	8.9	--	--
	03/20/84	CH2M-HILL	9.5	--	1.3	--	0.2	--	--	8.9	--	--
	03/26/84	CH2M-HILL	10.1	--	3	--	0.5	--	--	8.8	--	--
	04/09/84	CH2M-HILL	13.8	--	1.7	--	0.3	--	--	9.9	--	--
	04/23/84	CH2M-HILL	13.5	--	2.5	--	0.2	--	--	8.1	--	--
	05/07/84	CH2M-HILL	11.4	--	2.1	--	0.2	--	--	10.1	--	--
	05/21/84	CH2M-HILL	9.4	--	0.9	--	0.2	--	--	9.4	--	--
	07/19/84	CH2M-HILL	--	--	--	--	--	--	--	11.9	--	--
	08/06/84	CH2M-HILL	14.6	--	1.2	--	0.2	--	--	13.5	--	--
	08/27/84	CH2M-HILL	12.1	--	1	--	< 0.5	--	--	8.6	--	--
	08/31/84	CH2M-HILL	9.5	--	1.1	--	< 0.5	--	--	10.5	--	--
	10/22/84	CH2M-HILL	9	--	1.5	--	< 0.5	--	--	11.2	--	--
	11/12/84	CH2M-HILL	7.4	--	2	--	< 0.5	--	--	9.4	--	--
	11/26/84	CH2M-HILL	7.1	--	1.7	--	< 0.5	--	--	9.1	--	--
	12/10/84	CH2M-HILL	5.5	--	2	--	< 0.5	--	--	10.5	--	--
	01/07/85	CH2M-HILL	9.4	--	2.1	--	< 0.5	--	--	10.5	--	--
	01/21/85	CH2M-HILL	7.3	--	1.3	--	< 0.5	--	--	13.2	--	--
	02/11/85	CH2M-HILL	5.1	--	1.4	--	< 0.5	--	--	7.8	--	--
	02/25/85	CH2M-HILL	6.3	--	1.5	--	< 0.5	--	--	9.9	--	--
	03/13/85	CH2M-HILL	7	--	1.7	--	< 0.5	--	--	12.2	--	--
	03/25/85	CH2M-HILL	9	--	1.4	--	< 0.5	--	--	10.8	--	--
	04/22/85	CH2M-HILL	8.3	--	1.2	--	< 0.5	--	--	8.3	--	--
	05/06/85	CH2M-HILL	12	--	2.5	--	< 0.5	--	--	19.8	--	--
	05/20/85	CH2M-HILL	4.8	--	1.2	--	< 0.5	--	--	10	--	--
	06/03/85	CH2M-HILL	7.1	--	1.3	--	< 0.5	--	--	13.7	--	--
	06/17/85	CH2M-HILL	6	--	0.7	--	< 0.5	--	--	9.6	--	--
	06/24/85	CH2M-HILL	3.9	--	0.8	--	< 0.5	--	--	7.8	--	--
	07/08/85	CH2M-HILL	5.7	--	0.9	--	< 0.5	--	--	8.8	--	--
	07/22/85	CH2M-HILL	6.4	--	< 0.5	--	< 0.5	--	--	1.7	--	--
	08/05/85	CH2M-HILL	5	--	< 0.5	--	< 0.5	--	--	5.1	--	--
	08/19/85	CH2M-HILL	4.1	--	< 0.5	--	< 0.5	--	--	2.1	--	--
	09/03/85	CH2M-HILL	4.8	--	0.5	--	< 0.5	--	--	5.5	--	--
	09/16/85	CH2M-HILL	4.6	--	< 0.5	--	< 0.5	--	--	1.6	--	--
	10/07/85	CH2M-HILL	3.9	--	1.1	--	< 0.5	--	--	11.7	--	--
	10/21/85	CH2M-HILL	3.8	--	0.5	--	< 0.5	--	--	7.7	--	--
	11/04/85	CH2M-HILL	3	--	< 0.5	--	< 0.5	--	--	7.5	--	--
	12/09/85	CH2M-HILL	4	--	< 0.5	--	< 0.5	--	--	9.6	--	--
	12/30/85	CH2M-HILL	3.2	--	< 0.5	--	< 0.5	--	--	8.5	--	--
	03/18/86	CH2M-HILL	--	--	--	--	--	--	--	4.2	--	--
SS	03/18/86	CH2M-HILL	--	--	--	--	--	--	--	4.2	--	--
	01/12/87	CH2M-HILL	5.5	--	0.8	--	--	--	--	9.2	--	--

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			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
NP-21 (cont'd) (50-500')	01/19/87	CH2M-HILL	5.8	--	0.9	--	--	--	--	8.8	--	--
	02/02/87	CH2M-HILL	5.3	--	0.9	--	--	--	--	7.2	--	--
	02/17/87	CH2M-HILL	5.3	--	0.7	--	--	--	--	7.8	--	--
	03/02/87	CH2M-HILL	6.9	--	0.8	--	--	--	--	8.5	--	--
	03/16/87	CH2M-HILL	5.5	--	0.9	--	--	--	--	7.2	--	--
	03/30/87	CH2M-HILL	7.1	--	1	--	--	--	--	8.4	--	--
	04/13/87	CH2M-HILL	6.8	--	0.9	--	--	--	--	8.6	--	--
	04/27/87	CH2M-HILL	6.4	--	0.9	--	--	--	--	9.9	--	--
	05/04/87	CH2M-HILL	4.8	--	0.8	--	--	--	--	7.9	--	--
	05/18/87	CH2M-HILL	5.9	--	0.8	--	--	--	--	8.3	--	--
	06/01/87	CH2M-HILL	4.4	--	0.6	--	--	--	--	6.2	--	--
	06/03/87	CH2M-HILL	9.8	--	1.1	--	--	--	--	11.2	--	--
	06/15/87	CH2M-HILL	5.8	--	0.7	--	--	--	--	6.2	--	--
	06/29/87	CH2M-HILL	7.6	--	0.7	--	--	--	--	6.4	--	--
	07/20/87	CH2M-HILL	2.9	--	< 0.5	--	--	--	--	5.5	--	--
	07/27/87	CH2M-HILL	6.6	--	0.9	--	--	--	--	9.7	--	--
	08/12/87	CH2M-HILL	3.5	--	0.5	--	--	--	--	6.1	--	--
	08/24/87	CH2M-HILL	3.7	--	0.5	--	--	--	--	6.3	--	--
	09/08/87	CH2M-HILL	6.1	--	< 0.5	--	--	--	--	3.3	--	--
	09/21/87	CH2M-HILL	5.3	--	0.5	--	--	--	--	7	--	--
	10/05/87	CH2M-HILL	5	--	0.6	--	--	--	--	6.9	--	--
	10/19/87	CH2M-HILL	3.4	--	< 0.5	--	--	--	--	4.6	--	--
	11/02/87	CH2M-HILL	3.2	--	< 0.5	--	--	--	--	6.5	--	--
	11/11/87	CH2M-HILL	3.1	--	< 0.5	--	--	--	--	6.2	--	--
	11/23/87	CH2M-HILL	2.3	--	< 0.5	--	--	--	--	5.5	--	--
	12/07/87	CH2M-HILL	2.8	--	0.5	--	--	--	--	5.7	--	--
	12/21/87	CH2M-HILL	4	--	< 0.5	--	--	--	--	8.4	--	--
	04/14/88	CH2M-HILL	3.6	--	< 0.5	< 0.5	< 0.5	--	< 0.5	7.3	< 0.5	--
	06/17/88	CH2M-HILL	--	--	--	--	--	--	--	6.2	--	--
	07/01/88	GWM	ND	--	1.1	--	--	--	--	14.2	--	--
	07/19/88	CH2M-HILL	3.1	--	0.6	< 0.5	< 0.5	--	< 0.5	5	< 0.5	--
	08/02/88	CH2M-HILL	--	--	--	--	--	--	--	8.6	--	--
	09/07/88	CH2M-HILL	< 0.5	--	1.1	< 0.5	< 0.5	--	< 0.5	14.2	< 0.5	--
	01/01/89	GWM	2.7	--	ND	--	--	--	--	3.5	--	--
	04/01/89	GWM	1.7	--	ND	--	--	--	--	4.6	--	--
	07/09/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
NP-87 (103-476')	06/01/98	EPA RI/FS	1 J	< 10	< 10	< 10	--	< 10	--	< 1 B	< 10	--
	08/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	< 10	--	1 J	< 10	--
	04/11/02	GWM	< 10	< 10	< 10	< 10	--	< 10	< 10	1.3	< 20	--
	05/20/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	1.3	< 2	--
Duplicate	07/09/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	07/09/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
PROD WELL (unknown)	02/26/80	GWM	--	--	--	--	--	ND	--	ND	--	--
	08/30/79	CH2M-HILL	--	--	--	--	--	--	--	< 0.1	--	--
	09/19/79	CH2M-HILL	--	--	--	--	--	< 0.1	--	< 0.1	--	--
	10/12/79	CH2M-HILL	--	--	--	--	--	< 0.1	--	< 0.1	--	--
	03/12/80	GWM	--	--	--	--	--	0.1	--	0.1	--	--

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Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
PROD WELL (cont'd) (unknown)	03/24/80	GWM	--	--	--	--	--	0.1	--	14.3‡	--	--
	04/08/80	GWM	--	--	--	--	--	0.1	--	3	--	--
	05/02/80	GWM	--	--	--	--	--	1	--	1.1	--	--
	05/29/80	GWM	--	--	--	--	--	0.1	--	0.6	--	--
	07/11/80	GWM	--	--	--	--	--	ND	--	ND	--	--
	08/11/80	GWM	--	--	--	--	--	0.2	--	ND	--	--
	09/04/80	CH2M-HILL	--	--	--	--	--	--	--	< 0.1	--	--
	09/04/80	GWM	--	--	--	--	--	0.2	--	ND	--	--
	11/06/80	GWM	--	--	--	--	--	ND	--	ND	--	--
	12/05/80	CH2M-HILL	--	--	--	--	--	--	--	< 0.1	--	--
	12/05/80	GWM	--	--	--	--	--	ND	--	ND	--	--
	01/30/81	GWM	--	--	--	--	--	ND	--	ND	--	--
	02/27/81	GWM	--	--	--	--	--	ND	--	ND	--	--
	03/26/81	GWM	--	--	--	--	--	ND	--	2.9	--	--
	04/24/81	GWM	--	--	--	--	--	ND	--	ND	--	--
	05/08/81	GWM	--	--	--	--	--	ND	--	1.4	--	--
	06/23/81	GWM	--	--	--	--	--	ND	--	1.6	--	--
	07/28/81	GWM	--	--	--	--	--	ND	--	ND	--	--
	09/24/81	GWM	--	--	--	--	--	ND	--	0.1	--	--
	11/13/81	GWM	--	--	--	--	--	ND	--	0.4	--	--
	12/02/81	GWM	--	--	--	--	--	ND	--	0.1	--	--
	01/27/82	GWM	--	--	--	--	--	ND	--	0.1	--	--
	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	20	--	--
	05/17/83	CH2M-HILL	--	--	--	--	--	--	--	1.1	--	--
	07/19/84	CH2M-HILL	--	--	--	--	--	--	--	0.4	--	--
	01/20/88	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	02/17/88	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	03/16/88	GWM	--	--	--	--	--	3.4	--	3.1	--	--
	04/20/88	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	05/18/88	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	06/15/88	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	07/20/88	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	08/17/88	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	09/21/88	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	10/19/88	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	11/18/88	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	12/20/88	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	01/18/89	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	02/16/89	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	02/28/08	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	03/20/89	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	04/18/89	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	05/16/89	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	06/20/89	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	07/18/89	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	08/16/89	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	09/20/89	GWM	--	--	--	--	--	< 1	--	< 1	--	--

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Former BAE Facility
Lansdale, Pennsylvania

Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
PROD WELL (cont'd) (unknown)	10/18/89	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	11/15/89	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	12/14/89	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	12/20/89	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	01/16/90	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	02/06/90	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	02/20/90	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	03/20/90	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	04/17/90	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	05/15/90	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	06/19/90	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	07/17/90	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	08/15/90	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	09/18/90	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	10/16/90	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	11/21/90	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	12/04/90	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	12/18/90	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	01/15/91	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	02/20/91	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	03/19/91	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	04/16/91	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	05/14/91	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	06/18/91	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	07/16/91	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	08/20/91	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	09/03/91	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	09/17/91	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	10/15/91	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	11/19/91	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	12/17/91	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	01/14/92	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	02/18/92	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	03/17/92	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	04/14/92	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	05/13/92	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	06/09/92	GWM	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--
	06/18/92	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	07/08/92	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	08/11/92	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	09/09/92	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	10/13/92	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	11/10/92	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	12/08/92	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	01/12/93	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	02/10/93	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	03/09/93	GWM	--	--	--	--	--	< 1	--	< 1	--	--

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Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
PROD WELL (cont'd) (unknown)	04/14/93	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	05/11/93	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	06/08/93	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	07/14/93	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	08/10/93	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	09/08/93	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	10/20/93	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	12/07/93	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	01/11/94	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	02/08/94	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	03/01/94	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	03/08/94	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	04/12/94	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	05/16/94	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	06/07/94	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	07/12/94	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	08/09/94	GWM	< 0.28	< 0.05	< 0.12	< 0.09	--	< 0.11	--	< 0.11	< 0.09	--
	09/13/94	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	10/10/94	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	--
	10/11/94	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	11/09/94	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	12/13/94	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	01/10/95	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	02/07/95	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	03/07/95	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	04/11/95	GWM	--	--	--	--	--	< 0.43	--	< 0.43	--	--
	05/09/95	GWM	--	--	--	--	--	< 0.43	--	< 0.43	--	--
	06/13/95	GWM	--	--	--	--	--	< 0.43	--	< 0.43	--	--
	07/12/95	GWM	< 0.52	< 0.4	< 0.69	< 0.56	--	< 0.24	< 0.43	< 0.24	< 0.68	--
	08/08/95	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	--
	08/22/95	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	09/13/95	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	10/11/95	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	--
	11/07/95	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	12/13/95	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	01/10/96	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	02/13/96	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	04/15/96	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	05/09/96	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	06/14/96	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	09/11/96	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	10/05/96	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	11/15/96	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	01/09/97	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	02/12/97	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	03/13/97	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	04/25/97	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--

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			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
PROD WELL (cont'd) (unknown)	05/27/97	GWM	0.5	0.5	0.5	0.5	--	0.5	0.5	0.5	0.5	--
	06/04/97	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	07/10/97	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	08/20/97	GWM	0.5	0.5	0.5	0.5	--	0.5	0.5	0.5	0.5	--
	09/18/97	GWM	0.5	0.5	0.5	0.5	--	0.5	0.5	0.5	0.5	--
	10/13/97	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	11/20/97	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	12/03/97	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	01/16/98	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	02/06/98	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	03/06/98	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	04/09/98	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	05/12/98	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	06/11/98	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	07/10/98	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	08/20/98	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	09/17/98	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	10/15/98	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	11/05/98	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	12/10/98	GWM	ND	ND	ND	ND	--	ND	ND	ND	ND	--
	01/21/99	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	02/11/99	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	03/19/99	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	04/15/99	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	05/06/99	GWM	ND	ND	ND	ND	--	ND	ND	ND	ND	--
	06/10/99	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	07/07/99	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	08/12/99	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	09/02/99	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	10/06/99	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	10/07/99	GWM	ND	ND	ND	ND	--	ND	ND	ND	ND	--
	10/15/99	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	11/11/99	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	12/02/99	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	10/31/00	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	06/06/01	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	11/13/01	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	04/16/02	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	11/18/02	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	04/13/03	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	06/04/03	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	11/14/03	GWM	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	--
	11/22/04	GWM	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--
	12/21/04	GWM	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--
	01/25/05	GWM	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	< 0.5	< 0.5	--
	02/22/05	GWM	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--
	03/23/05	GWM	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--

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			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
PW-1	03/25/08	PDI	2 J	< 1	1 J	< 1	6	3 J	< 0.8	51	< 1	--
(11-60')	06/17/08	PDI	1 J	< 1	< 0.8	< 1	1 J	< 0.8	< 0.8	40	< 1	--
Duplicate	06/17/08	PDI	1 J	< 1	< 0.8	< 1	1 J	< 0.8	< 0.8	39	< 1	--
	08/12/10	MNA	< 0.8	< 1	< 0.8	< 1	1 J	< 0.8	< 0.8	26	< 1	--
	11/17/10	MNA	1 J	< 1	< 0.8	< 1	2 J	< 0.8	< 0.8	34	< 1	--
Duplicate	11/17/10	MNA	< 0.8	< 1	< 0.8	< 1	1 J	< 0.8	< 0.8	30	< 1	--
	02/16/11	MNA	0.8 J	< 1	< 0.8	< 1	2 J	< 0.8	< 0.8	35	< 1	--
	05/04/11	MNA	1 J	< 1	< 0.8	< 1	4 J	< 0.8	< 0.8	44	< 1	--
	08/19/11	MNA	< 0.8	< 1	< 0.8	< 1	3 J	< 0.8	< 0.8	32	< 1	--
	11/09/11	MNA	1 J	< 1	0.9 J	< 1	3 J	< 0.8	< 0.8	38	< 1	--
	02/17/12	MNA	2 J	< 1	2 J	< 1	4 J	1 J	< 0.8	55	< 1	--
	05/03/12	MNA	< 0.8	< 1	< 0.8	< 1	1 J	< 0.8	< 0.8	21	< 1	--
	08/21/12	MNA	< 0.8	< 1	< 0.8	< 1	2 J	< 0.8	< 0.8	31	< 1	--
	11/19/12	MNA	< 0.8	< 1	< 0.8	< 1	2 J	< 0.8	< 0.8	31	< 1	--
	02/07/13	MNA	< 0.8	< 1	< 0.8	< 1	1 J	< 0.8	< 0.8	24	< 1	--
	05/09/13	MNA	< 0.8	< 1	< 0.8	< 1	11	< 0.8	< 0.8	59	< 1	--
	08/12/13	MNA	2 J	< 1	1 J	< 1	3 J	0.9 J	< 0.8	43	< 1	--
PW-2 (12-61')	03/20/08	PDI	6	< 1	2 J	< 1	5 J	3 J	< 0.8	65	< 1	--
Duplicate	06/18/08	PDI	8	< 1	2 J	< 1	5 J	3 J	< 0.8	78	< 1	--
	06/18/08	PDI	8	< 1	2 J	< 1	4 J	3 J	< 0.8	79	< 1	--
	08/16/10	MNA	11	< 1	2 J	< 1	4 J	3 J	< 0.8	96	< 1	--
	11/17/10	MNA	11	< 1	2 J	< 1	4 J	3 J	< 0.8	88	< 1	--
	02/16/11	MNA	5 J	< 1	0.8 J	< 1	2 J	3 J	< 0.8	56	< 1	--
	05/04/11	MNA	4 J	< 1	1 J	< 1	2 J	2 J	< 0.8	46	< 1	--
	08/18/11	MNA	10	< 1	2 J	< 1	4 J	3 J	< 0.8	94	< 1	--
	11/09/11	MNA	6	< 1	2 J	< 1	3 J	2 J	< 0.8	66	< 1	--
	02/16/12	MNA	10	< 1	2 J	< 1	4 J	3 J	< 0.8	95	< 1	--
Duplicate	02/16/12	MNA	10	< 1	2 J	< 1	4 J	3 J	< 0.8	93	< 1	--
	05/03/12	MNA	11	< 1	2 J	< 1	4 J	3 J	< 0.8	91	< 1	--
	08/16/12	MNA	11	< 1	2 J	< 1	4 J	3 J	< 0.8	99	< 1	--
	11/20/12	MNA	9	< 1	2 J	< 1	4 J	3 J	< 0.8	100	< 1	--
	02/07/13	MNA	6	< 1	1 J	< 1	2 J	3 J	< 0.8	56	< 1	--
Duplicate	02/07/13	MNA	6	< 1	1 J	< 1	2 J	3 J	< 0.8	56	< 1	--
	05/09/13	MNA	10	< 1	2 J	< 1	4 J	3 J	< 0.8	94	< 1	--
Duplicate	05/09/13	MNA	10	< 1	2 J	< 1	4 J	3 J	< 0.8	92	< 1	--
	08/12/13	MNA	11	< 1	2 J	< 1	4 J	3 J	< 0.8	92	< 1	--
PW-3 (12-60')	03/20/08	PDI	1 J	< 1	< 0.8	< 1	1 J	2 J	< 0.8	22	< 1	--
Duplicate	03/20/08	PDI	1 J	< 1	< 0.8	< 1	1 J	2 J	< 0.8	21	< 1	--
	06/19/08	PDI	1 J	< 1	< 0.8	< 1	2 J	3 J	< 0.8	31	< 1	--
	08/13/10	MNA	3 J	< 1	< 0.8	< 1	3 J	4 J	< 0.8	49	< 1	--
	11/17/10	MNA	3 J	< 1	< 0.8	< 1	2 J	4 J	< 0.8	39	< 1	--
	08/18/11	MNA	2 J	< 1	< 0.8	< 1	3 J	3 J	< 0.8	38	< 1	--
	08/16/12	MNA	2 J	< 1	0.9 J	< 1	3 J	3 J	< 0.8	39	< 1	--
	08/12/13	MNA	2 J	< 1	0.8 J	< 1	2 J	3 J	< 0.8	38	< 1	--

Table 2
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Former BAE Facility
Lansdale, Pennsylvania

Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
PW-4 (12-61')	03/19/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	18	< 1	--
Duplicate	03/19/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	18	< 1	--
	06/19/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	15	< 1	--
	08/12/10	MNA	< 0.8	< 1	< 0.8	< 1	1 J	< 0.8	< 0.8	13	< 1	--
	11/16/10	MNA	< 0.8	< 1	< 0.8	< 1	2 J	< 0.8	< 0.8	20	< 1	--
	08/18/11	MNA	< 0.8	< 1	< 0.8	< 1	3 J	< 0.8	< 0.8	21	< 1	--
	08/20/12	MNA	< 0.8	< 1	< 0.8	< 1	2 J	< 0.8	< 0.8	21	< 1	--
	08/12/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	12	< 1	--
PW-5 (11-70')	03/25/08	PDI	< 0.8	< 1	< 0.8	< 1	5	< 0.8	< 0.8	36	< 1	--
Duplicate	03/25/08	PDI	< 0.8	< 1	< 0.8	< 1	5	< 0.8	< 0.8	36	< 1	--
	06/19/08	PDI	< 0.8	< 1	< 0.8	< 1	3 J	< 0.8	< 0.8	18	< 1	--
	08/12/10	MNA	< 0.8	< 1	< 0.8	< 1	1 J	< 0.8	< 0.8	15	< 1	--
	11/16/10	MNA	< 0.8	< 1	< 0.8	< 1	1 J	< 0.8	< 0.8	9	< 1	--
	08/18/11	MNA	2 J	< 1	< 0.8	< 1	2 J	0.8 J	< 0.8	25	< 1	--
	08/20/12	MNA	< 0.8	< 1	< 0.8	< 1	2 J	< 0.8	< 0.8	21	< 1	--
	08/12/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	14	< 1	--
Duplicate	08/12/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	14	< 1	--
PW-6A (18-52')	03/19/08	PDI	< 0.8	2 J	8	< 1	2 J	< 0.8	< 0.8	12	< 1	--
	06/18/08	PDI	< 0.8	4 J	17	< 1	4 J	< 0.8	< 0.8	17	< 1	--
	08/12/10	MNA	< 0.8	2 J	14	< 1	5 J	< 0.8	< 0.8	14	< 1	--
	11/17/10	MNA	< 0.8	3 J	18	< 1	5	< 0.8	< 0.8	15	< 1	--
	08/18/11	MNA	< 0.8	2 J	10	< 1	2 J	< 0.8	< 0.8	16	< 1	--
Duplicate	08/18/11	MNA	< 0.8	2 J	3 J	< 1	1 J	< 0.8	< 0.8	12	< 1	--
	08/20/12	MNA	< 0.8	2 J	10	< 1	2 J	< 0.8	< 0.8	15	< 1	--
	08/12/13	MNA	< 0.8	2 J	12	< 1	3 J	< 0.8	< 0.8	13	< 1	--
PW-6B (66-86')	03/19/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	5 J	< 1	--
	06/18/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	4 J	< 1	--
	08/12/10	MNA	< 0.8	< 1	< 0.8	< 1	0.9 J	< 0.8	< 0.8	8	< 1	--
	11/17/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	5	< 1	--
	08/18/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	5	< 1	--
	08/20/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	5 J	< 1	--
	08/08/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	5 J	< 1	--
PW-7A (90-110')	03/19/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	06/17/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	5	< 1	--
	08/12/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	1 J	< 1	--
	11/19/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	3 J	< 1	--
	08/18/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	6	< 1	--
	08/16/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	6	< 1	--
	08/07/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	7	< 1	--
PW-7B (124-144')	03/19/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	06/17/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	2 J	< 1	--
	08/12/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	5	< 1	--
	11/19/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	5	< 1	--
	08/18/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	5 J	< 1	--
	08/16/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	6	< 1	--
	08/08/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	4 J	< 1	--

Table 2
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Lansdale, Pennsylvania

Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
PW-8A (18-46')	03/18/08	PDI	3 J	< 1	3 J	< 1	< 0.8	< 0.8	< 0.8	11	< 1	--
	06/16/08	PDI	5	< 1	6	< 1	< 0.8	< 0.8	< 0.8	13	< 1	--
	08/11/10	MNA	10	< 1	13	< 1	< 0.8	< 0.8	< 0.8	28	< 1	--
	11/18/10	MNA	6	< 1	6	< 1	< 0.8	< 0.8	< 0.8	13	< 1	<0.010
	02/15/11	MNA	20	< 1	30	< 1	2 J	< 0.8	< 0.8	81	< 1	0.015 J
	05/03/11	MNA	14	< 1	18	< 1	1 J	< 0.8	< 0.8	46	< 1	< 0.010
	08/22/11	MNA	17	< 1	25	< 1	1 J	< 0.8	< 0.8	54	< 1	0.013 J
	11/08/11	MNA	10	< 1	15	< 1	0.8 J	< 0.8	< 0.8	33	< 1	0.012 J
	02/15/12	MNA	11	< 1	11	< 1	< 0.8	< 0.8	< 0.8	27	< 1	0.013 J
	05/03/12	MNA	9	< 1	11	< 1	< 0.8	< 0.8	< 0.8	26	< 1	< 0.010
	08/21/12	MNA	11	< 1	11	< 1	< 0.8	< 0.8	< 0.8	26	< 1	0.010 J
	11/19/12	MNA	9	< 1	10	< 1	< 0.8	< 0.8	< 0.8	24	< 1	0.013 J
	02/07/13	MNA	7	< 1	7	< 1	< 0.8	< 0.8	< 0.8	14	< 1	< 0.010
	05/09/13	MNA	7	< 1	6	< 1	< 0.8	< 0.8	< 0.8	11	< 1	< 0.010
	08/14/13	MNA	8	< 1	7	< 1	< 0.8	< 0.8	< 0.8	16	< 1	0.034J
PW-8B (60-100')	03/18/08	PDI	< 0.8	< 1	1 J	< 1	< 0.8	< 0.8	< 0.8	4 J	< 1	--
	06/16/08	PDI	< 0.8	< 1	2 J	< 1	< 0.8	< 0.8	< 0.8	6	< 1	--
	08/11/10	MNA	2 J	< 1	6	< 1	1 J	< 0.8	< 0.8	28	< 1	--
	11/18/10	MNA	< 0.8	< 1	2 J	< 1	0.9 J	< 0.8	< 0.8	9	< 1	--
	02/15/11	MNA	0.9 J	< 1	3 J	< 1	0.9 J	< 0.8	< 0.8	12	< 1	--
	05/03/11	MNA	< 0.8	< 1	2 J	< 1	0.9 J	< 0.8	< 0.8	8	< 1	--
	08/16/11	MNA	1 J	< 1	3 J	< 1	0.9 J	< 0.8	< 0.8	11	< 1	--
	11/08/11	MNA	0.8 J	< 1	2 J	< 1	1 J	< 0.8	< 0.8	9	< 1	--
	02/14/12	MNA	0.9 J	< 1	3 J	< 1	0.9 J	< 0.8	< 0.8	9	< 1	--
	05/02/12	MNA	1 J	< 1	2 J	< 1	1 J	< 0.8	< 0.8	9	< 1	--
	08/15/12	MNA	1 J	< 1	3 J	< 1	1 J	< 0.8	< 0.8	12	< 1	--
	11/19/12	MNA	1 J	< 1	2 J	< 1	1 J	< 0.8	< 0.8	11	< 1	--
	02/06/13	MNA	1 J	< 1	2 J	< 1	0.9 J	< 0.8	< 0.8	11	< 1	--
	05/09/13	MNA	1 J	< 1	3 J	< 1	1 J	< 0.8	< 0.8	13	< 1	--
	08/09/13	MNA	2 J	< 1	3 J	< 1	< 0.8	< 0.8	< 0.8	14	< 1	--
PW-9A (10-48')	03/24/08	PDI	< 0.8	< 1	4 J	< 1	< 0.8	< 0.8	< 0.8	2 J	< 1	--
	06/18/08	PDI	< 0.8	< 1	22	< 1	1 J	< 0.8	< 0.8	12	< 1	--
	08/12/10	MNA	< 0.8	< 1	45	< 1	3 J	< 0.8	< 0.8	23	< 1	--
	11/19/10	MNA	< 0.8	< 1	36	< 1	2 J	< 0.8	< 0.8	19	< 1	--
	08/17/11	MNA	< 0.8	< 1	33	< 1	2 J	< 0.8	< 0.8	17	< 1	--
	08/22/12	MNA	< 0.8	< 1	26	< 1	2 J	< 0.8	< 0.8	15	< 1	--
	11/20/12	MNA	< 0.8	< 1	20	< 1	2 J	< 0.8	< 0.8	14	< 1	0.05
	02/11/13	MNA	< 0.8	< 1	16	< 1	2 J	< 0.8	< 0.8	12	< 1	0.031 J
	05/10/13	MNA	< 0.8	< 1	23	< 1	2 J	< 0.8	< 0.8	14	< 1	0.027 J
	08/06/13	MNA	< 0.8	< 1	15	< 1	1 J	< 0.8	< 0.8	11	< 1	0.021 J

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Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
PW-9B (62-85')	03/24/08	PDI	< 0.8	< 1	3 J	< 1	< 0.8	< 0.8	< 0.8	2 J	< 1	--
	06/18/08	PDI	2 J	< 1	16	< 1	4 J	< 0.8	< 0.8	19	< 1	--
	08/12/10	MNA	2 J	< 1	33	< 1	7	< 0.8	< 0.8	34	< 1	--
	11/19/10	MNA	1 J	< 1	28	< 1	7	< 0.8	< 0.8	31	< 1	--
	08/17/11	MNA	2 J	1 J	47	< 1	9	< 0.8	< 0.8	41	< 1	--
	08/22/12	MNA	4 J	2 J	82	< 1	13	< 0.8	< 0.8	51	< 1	--
	11/20/12	MNA	3 J	1 J	68	< 1	12	< 0.8	< 0.8	44	< 1	0.072
	02/11/13	MNA	4 J	2 J	81	< 1	14	< 0.8	< 0.8	52	< 1	0.064
	05/10/13	MNA	4 J	2 J	110	< 1	15	< 0.8	< 0.8	55	< 1	0.065
	08/06/13	MNA	5	2 J	110	< 1	16	< 0.8	< 0.8	58	< 1	0.051
PW-10A (19-50')	03/19/08	PDI	28	6	42	< 1	4 J	2 J	< 0.8	180	< 1	--
	06/17/08	PDI	19	8	40	< 1	5	2 J	< 0.8	150	< 1	--
	08/11/10	MNA	7	7	46	< 1	5	2 J	< 0.8	120	< 1	--
	11/18/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	11	< 1	0.012 J
	02/15/11	MNA	7	7	49	< 1	4 J	2 J	< 0.8	120	< 1	0.110
	05/03/11	MNA	5	6	44	< 1	4 J	1 J	< 0.8	100	< 1	0.043 J
	08/23/11	MNA	5	7	54	< 1	4 J	2 J	< 0.8	110	< 1	0.11
	11/09/11	MNA	6	5 J	38	< 1	4 J	1 J	< 0.8	100	< 1	0.12
	02/15/12	MNA	7	6	46	< 1	4 J	2 J	< 0.8	120	< 1	0.13
	05/03/12	MNA	8	5	40	< 1	4 J	2 J	< 0.8	120	< 1	0.11
	08/21/12	MNA	7	6	52	< 1	5 J	2 J	< 0.8	120	< 1	0.12
Duplicate	08/21/12	MNA	6	6	54	< 1	4 J	2 J	< 0.8	130	< 1	--
	11/20/12	MNA	7	5 J	41	< 1	4 J	2 J	< 0.8	120	< 1	0.089
	02/07/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	12	< 1	< 0.010
	05/10/13	MNA	7	6	57	< 1	4 J	2 J	< 0.8	130	< 1	0.072
	08/14/13	MNA	6	5 J	44	< 1	3 J	2 J	< 0.8	120	< 1	0.057

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			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
PW-10B	03/19/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	10	< 1	--
(64-84')	06/17/08	PDI	< 0.8	< 1	< 0.8	< 1	1 J	< 0.8	< 0.8	14	< 1	--
	08/11/10	MNA	< 0.8	< 1	< 0.8	< 1	0.8 J	< 0.8	< 0.8	14	< 1	--
Duplicate	08/11/10	MNA	1 J	< 1	3 J	< 1	0.8 J	< 0.8	< 0.8	15	< 1	--
	11/18/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	9	< 1	--
	02/15/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	12	< 1	--
	05/03/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	11	< 1	--
	08/18/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	10	< 1	--
	11/09/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	11	< 1	--
	02/14/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	11	< 1	--
	05/02/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	12	< 1	--
	08/16/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	12	< 1	--
	11/17/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	11	< 1	--
	02/06/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	11	< 1	--
	05/08/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	13	< 1	--
	08/09/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	13	< 1	--
PW-11	08/25/09	GWM	13	1 J	48	< 1	2 J	2 J	< 0.8	110	< 1	--
Duplicate	08/25/09	GWM	13	1 J	47	< 1	2 J	2 J	< 0.8	110	< 1	--
(13-80')	08/11/10	MNA	8	< 1	29	< 1	2 J	1 J	< 0.8	69	< 1	--
	11/18/10	MNA	8	< 1	29	< 1	2 J	1 J	< 0.8	68	< 1	0.027 J
	02/08/11	MNA	6	< 1	19	< 1	2 J	1 J	< 0.8	60	< 1	0.020 J
	05/03/11	MNA	7	< 1	22	< 1	2 J	1 J	< 0.8	62	< 1	< 0.010
	08/22/11	MNA	9	1 J	38	< 1	2 J	1 J	< 0.8	70	< 1	0.032 J
	11/08/11	MNA	7	< 1	31	< 1	2 J	0.9 J	< 0.8	63	< 1	0.034 J
	02/15/12	MNA	9	< 1	30	< 1	2 J	0.9 J	< 0.8	65	< 1	0.035 J
	05/03/12	MNA	7	< 1	30	< 1	2 J	1 J	< 0.8	60	< 1	0.029 J
	08/21/12	MNA	8	1 J	34	< 1	2 J	1 J	< 0.8	66	< 1	0.035 J
	11/19/12	MNA	6	< 1	34	< 1	2 J	0.9 J	< 0.8	60	< 1	0.035 J
	02/07/13	MNA	6	< 1	27	< 1	2 J	0.9 J	< 0.8	53	< 1	0.028 J
	05/09/13	MNA	7	1 J	40	< 1	2 J	1 J	< 0.8	66	< 1	0.027 J
	08/14/13	MNA	6	< 1	24	< 1	2 J	0.8 J	< 0.8	49	< 1	0.020 J
PW-11A (Shallow)	08/25/09	GWM	13	1 J	41	< 1	2 J	1 J	< 0.8	95	< 1	--
PW-11B (Deep)	08/25/09	GWM	13	1 J	30	< 1	2 J	2 J	< 0.8	120	< 1	--

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			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
PW-12 (13-80')	08/25/09	GWM	1 J	< 1	2 J	< 1	< 0.8	< 0.8	< 0.8	9	< 1	--
	08/11/10	MNA	1 J	< 1	1 J	< 1	< 0.8	< 0.8	< 0.8	9	< 1	--
	11/17/10	MNA	2 J	< 1	1 J	< 1	< 0.8	< 0.8	< 0.8	9	< 1	--
	02/15/11	MNA	2 J	< 1	1 J	< 1	< 0.8	< 0.8	< 0.8	10	< 1	--
	05/03/11	MNA	2 J	< 1	1 J	< 1	< 0.8	< 0.8	< 0.8	9	< 1	--
	08/17/11	MNA	2 J	< 1	1 J	< 1	< 0.8	< 0.8	< 0.8	9	< 1	--
	11/08/11	MNA	2 J	< 1	1 J	< 1	< 0.8	< 0.8	< 0.8	10	< 1	--
	02/15/12	MNA	2 J	< 1	2 J	< 1	< 0.8	< 0.8	< 0.8	11	< 1	--
	05/02/12	MNA	2 J	< 1	1 J	< 1	0.9 J	< 0.8	< 0.8	12	< 1	--
	08/16/12	MNA	2 J	< 1	1 J	< 1	0.9 J	< 0.8	< 0.8	12	< 1	--
	11/16/12	MNA	2 J	< 1	1 J	< 1	0.9 J	< 0.8	< 0.8	11	< 1	--
	02/06/13	MNA	2 J	< 1	1 J	< 1	0.8 J	< 0.8	< 0.8	11	< 1	--
	05/07/13	MNA	2 J	< 1	2 J	< 1	0.9 J	< 0.8	< 0.8	12	< 1	--
	08/08/13	MNA	2 J	< 1	2 J	< 1	< 0.8	< 0.8	< 0.8	13	< 1	--
PW-12A (Shallow)	08/25/09	GWM	1 J	< 1	1 J	< 1	< 0.8	< 0.8	< 0.8	7	< 1	--
PW-12B (Deep)	08/25/09	GWM	1 J	< 1	1 J	< 1	< 0.8	< 0.8	< 0.8	8	< 1	--
PW-13 (19-80')	08/25/09	GWM	3 J	< 1	< 0.8	< 1	0.9 J	< 0.8	< 0.8	9	< 1	--
	08/13/10	MNA	3 J	< 1	< 0.8	< 1	0.9 J	< 0.8	< 0.8	12	< 1	--
	11/17/10	MNA	2 J	< 1	< 0.8	< 1	1 J	< 0.8	< 0.8	11	< 1	--
	02/15/11	MNA	2 J	< 1	< 0.8	< 1	2 J	< 0.8	< 0.8	13	< 1	--
	05/03/11	MNA	2 J	< 1	< 0.8	< 1	2 J	< 0.8	< 0.8	13	< 1	--
	08/17/11	MNA	2 J	< 1	< 0.8	< 1	2 J	0.9 J	< 0.8	15	< 1	--
	11/08/11	MNA	1 J	< 1	< 0.8	< 1	2 J	< 0.8	< 0.8	13	< 1	--
	02/15/12	MNA	2 J	< 1	1 J	< 1	2 J	1 J	< 0.8	15	< 1	--
	05/02/12	MNA	2 J	< 1	< 0.8	< 1	2 J	1 J	< 0.8	16	< 1	--
	08/16/12	MNA	2 J	< 1	< 0.8	< 1	2 J	0.9 J	< 0.8	16	< 1	--
	11/19/12	MNA	1 J	< 1	< 0.8	< 1	2 J	1 J	< 0.8	16	< 1	--
	02/06/13	MNA	2 J	< 1	0.9 J	< 1	2 J	1 J	< 0.8	16	< 1	--
	05/08/13	MNA	2 J	< 1	1 J	< 1	3 J	1 J	< 0.8	20	< 1	--
	08/09/13	MNA	2 J	< 1	1 J	< 1	3 J	1 J	< 0.8	20	< 1	--

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Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
PW-14 (18-80')	08/25/09	GWM	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	4 J	< 1	--
	08/13/10	MNA	< 0.8	< 1	< 0.8	< 1	0.9 J	2 J	< 0.8	13	< 1	--
	11/17/10	MNA	< 0.8	< 1	< 0.8	< 1	1 J	2 J	< 0.8	18	< 1	--
	02/16/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	3 J	< 1	--
	05/04/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	2 J	< 1	--
	08/18/11	MNA	< 0.8	< 1	< 0.8	< 1	1 J	2 J	< 0.8	17	< 1	--
	11/09/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	3 J	< 1	--
	02/16/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	2 J	< 1	--
	05/03/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	3 J	< 1	--
	08/16/12	MNA	< 0.8	< 1	< 0.8	< 1	1 J	2 J	< 0.8	17	< 1	--
	11/16/12	MNA	< 0.8	< 1	< 0.8	< 1	0.9 J	1 J	< 0.8	14	< 1	--
	02/05/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	3 J	< 1	--
	05/07/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	2 J	< 1	--
	08/08/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	7	< 1	--
Recovery Well (4-104') 00:00[2] 1:00[2] 2:00[2] 3:00[2]	06/17/83	CH2M-HILL	--	--	--	--	--	--	--	5000	--	--
	07/19/84	CH2M-HILL	--	--	--	--	--	--	--	948	--	--
	12/07/84	CH2M-HILL	--	--	--	--	--	2.2	--	730	--	--
	12/08/84	CH2M-HILL	--	--	--	--	--	2.5	--	513	--	--
	12/09/84	CH2M-HILL	--	--	--	--	--	3.9	--	360	--	--
	12/10/84	CH2M-HILL	--	--	--	--	--	2.1	--	250	--	--
	04/03/86**	CH2M-HILL	--	--	--	--	--	--	--	434	--	--
	04/04/86	CH2M-HILL	--	--	--	--	--	--	--	318	--	--
	04/07/86	CH2M-HILL	--	--	--	--	--	--	--	250	--	--
	04/08/86	CH2M-HILL	--	--	--	--	--	--	--	252	--	--
	04/09/86	CH2M-HILL	--	--	--	--	--	--	--	230	--	--
	04/16/86	CH2M-HILL	--	--	--	--	--	--	--	221	--	--
	04/23/86	CH2M-HILL	--	--	--	--	--	--	--	212	--	--
	04/25/86	CH2M-HILL	--	--	--	--	--	--	--	218	--	--
	04/30/86	CH2M-HILL	--	--	--	--	--	--	--	< 0.1	--	--
	05/07/86	CH2M-HILL	--	--	--	--	--	--	--	226	--	--
	05/14/86	CH2M-HILL	--	--	--	--	--	--	--	118	--	--
	05/21/86	CH2M-HILL	--	--	--	--	--	--	--	102	--	--
	05/28/86	CH2M-HILL	--	--	--	--	--	--	--	82.6	--	--
	06/04/86	CH2M-HILL	--	--	--	--	--	--	--	73.3	--	--
	06/11/86	CH2M-HILL	--	--	--	--	--	--	--	84.7	--	--
	06/18/86	CH2M-HILL	--	--	--	--	--	--	--	80.9	--	--
	06/25/86	CH2M-HILL	--	--	--	--	--	--	--	65.6	--	--
	07/02/86	CH2M-HILL	--	--	--	--	--	--	--	101	--	--

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			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
Recovery Well (cont'd) (4-104')	07/10/86	CH2M-HILL	--	--	--	--	--	--	--	79.4	--	--
	07/16/86	CH2M-HILL	--	--	--	--	--	--	--	71.7	--	--
	07/23/86	CH2M-HILL	--	--	--	--	--	--	--	93.3	--	--
	07/30/86	CH2M-HILL	--	--	--	--	--	--	--	79.7	--	--
	08/06/86	CH2M-HILL	--	--	--	--	--	--	--	80.4	--	--
	08/13/86	CH2M-HILL	--	--	--	--	--	--	--	81.4	--	--
	08/20/86	CH2M-HILL	--	--	--	--	--	--	--	86	--	--
	08/27/86	CH2M-HILL	--	--	--	--	--	--	--	59.3	--	--
	09/03/86	CH2M-HILL	--	--	--	--	--	--	--	90.1	--	--
	09/10/86	CH2M-HILL	--	--	--	--	--	--	--	26.8	--	--
	09/17/86	CH2M-HILL	--	--	--	--	--	--	--	33.9	--	--
	09/24/86	CH2M-HILL	--	--	--	--	--	--	--	482	--	--
	01/12/87	CH2M-HILL	--	--	--	--	--	--	--	134	--	--
	01/30/87	CH2M-HILL	--	--	--	--	--	--	--	184	--	--
	02/04/87	CH2M-HILL	--	--	--	--	--	--	--	148	--	--
	02/18/87	CH2M-HILL	--	--	--	--	--	--	--	185	--	--
	03/04/87	CH2M-HILL	--	--	--	--	--	--	--	152	--	--
	03/18/87	CH2M-HILL	--	--	--	--	--	--	--	186	--	--
	04/01/87	CH2M-HILL	--	--	--	--	--	--	--	172	--	--
	04/15/87	CH2M-HILL	--	--	--	--	--	--	--	176	--	--
	05/06/87	CH2M-HILL	--	--	--	--	--	--	--	54.6	--	--
	05/20/87	CH2M-HILL	--	--	--	--	--	--	--	75.8	--	--
	06/03/87	CH2M-HILL	--	--	--	--	--	--	--	56	--	--
	06/17/87	CH2M-HILL	--	--	--	--	--	--	--	146	--	--
	07/01/87	CH2M-HILL	--	--	--	--	--	--	--	41	--	--
	07/15/87	CH2M-HILL	--	--	--	--	--	--	--	45.1	--	--
	08/05/87	CH2M-HILL	--	--	--	--	--	--	--	52.9	--	--
	08/19/87	CH2M-HILL	--	--	--	--	--	--	--	47.6	--	--
	09/02/87	CH2M-HILL	--	--	--	--	--	--	--	52	--	--
	09/16/87	CH2M-HILL	--	--	--	--	--	--	--	75	--	--
	10/07/87	CH2M-HILL	--	--	--	--	--	--	--	52.7	--	--
	10/22/87	CH2M-HILL	--	--	--	--	--	--	--	51.3	--	--
	11/04/87	CH2M-HILL	--	--	--	--	--	--	--	46.9	--	--
	11/18/87	CH2M-HILL	--	--	--	--	--	--	--	47.5	--	--
	12/02/87	CH2M-HILL	--	--	--	--	--	--	--	< 1	--	--
	12/16/87	CH2M-HILL	--	--	--	--	--	--	--	120	--	--
	01/06/88	CH2M-HILL	--	--	--	--	--	--	--	103	--	--
	01/20/88	CH2M-HILL	--	--	--	--	--	--	--	109	--	--
	02/03/88	CH2M-HILL	--	--	--	--	--	--	--	147	--	--
	02/17/88	CH2M-HILL	--	--	--	--	--	--	--	131	--	--
	03/02/88	CH2M-HILL	--	--	--	--	--	--	--	129	--	--
	03/16/88	CH2M-HILL	--	--	--	--	--	--	--	44	--	--
	01/18/89	GWM	--	--	--	--	--	> 1	--	126	--	--
	02/02/89	GWM	--	--	--	--	--	< 1	--	113	--	--
	02/17/89	GWM	--	--	--	--	--	< 1	--	126	--	--
	03/01/89	GWM	--	--	--	--	--	1.1	--	96.7	--	--
	03/20/89	GWM	--	--	--	--	--	< 1	--	97.8	--	--

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			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
Recovery Well (cont'd) (4-104')	04/04/89	GWM	--	--	--	--	--	1.3	--	63.6	--	--
	04/18/89	GWM	--	--	--	--	--	1.6	--	81.4	--	--
	05/02/89	GWM	--	--	--	--	--	< 1	--	41.2	--	--
	05/16/89	GWM	--	--	--	--	--	< 1	--	79.8	--	--
	06/07/89	GWM	--	--	--	--	--	< 1	--	135	--	--
	06/20/89	GWM	--	--	--	--	--	< 1	--	< 1	--	--
	07/05/89	GWM	--	--	--	--	--	< 1	--	37.6	--	--
	07/18/89	GWM	--	--	--	--	--	< 1	--	12.6	--	--
	08/02/89	GWM	--	--	--	--	--	< 1	--	8.4	--	--
	08/16/89	GWM	--	--	--	--	--	< 1	--	6.4	--	--
	09/06/89	GWM	--	--	--	--	--	< 1	--	8.2	--	--
	09/20/89	GWM	--	--	--	--	--	< 1	--	16.4	--	--
	10/03/89	GWM	--	--	--	--	--	< 1	--	12.1	--	--
	10/18/89	GWM	--	--	--	--	--	< 1	--	1.1		--
	10/31/89	GWM	--	--	--	--	--	< 1	--	16.6	--	--
	11/15/89	GWM	--	--	--	--	--	< 1	--	3.3	--	--
	12/05/89	GWM	--	--	--	--	--	< 1	--	6.3	--	--
	12/20/89	GWM	--	--	--	--	--	< 1	--	12.9	--	--
	01/02/90	GWM	--	--	--	--	--	< 1	--	22.3	--	--
	01/16/90	GWM	--	--	--	--	--	2.7	--	15.1	--	--
	02/06/90	GWM	--	--	--	--	--	< 1	--	22	--	--
	02/20/90	GWM	--	--	--	--	--	< 1	--	10.2	--	--
	03/06/90	GWM	--	--	--	--	--	< 1	--	8.5	--	--
	03/20/90	GWM	--	--	--	--	--	< 1	--	11.6	--	--
	04/03/90	GWM	--	--	--	--	--	< 1	--	12.6	--	--
	04/17/90	GWM	--	--	--	--	--	< 1	--	16.1	--	--
	04/30/90	GWM	--	--	--	--	--	< 1	--	12.6	--	--
	05/01/90	GWM	--	--	--	--	--	< 1	--	12.8	--	--
	05/15/90	GWM	--	--	--	--	--	< 1	--	13.8	--	--
	06/06/90	GWM	--	--	--	--	--	< 1	--	17.8	--	--
	06/19/90	GWM	--	--	--	--	--	< 1	--	21.7	--	--
	07/02/90	GWM	--	--	--	--	--	< 1	--	7.6	--	--
	07/17/90	GWM	--	--	--	--	--	< 1	--	6.6	--	--
	07/31/90	GWM	--	--	--	--	--	< 1	--	8	--	--
	08/15/90	GWM	--	--	--	--	--	< 1	--	8.6	--	--
	09/04/90	GWM	--	--	--	--	--	< 1	--	5.4	--	--
	09/18/90	GWM	--	--	--	--	--	< 1	--	14.7	--	--
	10/02/90	GWM	--	--	--	--	--	< 1	--	9.8	--	--
	10/16/90	GWM	--	--	--	--	--	< 1	--	12.6	--	--
	11/06/90	GWM	--	--	--	--	--	< 1	--	6.5	--	--
	11/21/90	GWM	--	--	--	--	--	< 1	--	7.2	--	--
	12/04/90	GWM	--	--	--	--	--	< 1	--	16.7	--	--
	12/18/90	GWM	--	--	--	--	--	< 1	--	15.5	--	--
	01/02/91	GWM	--	--	--	--	--	< 1	--	10.1	--	--
	01/15/91	GWM	--	--	--	--	--	< 1	--	10.3	--	--
	02/05/91	GWM	--	--	--	--	--	< 1	--	8.6	--	--
	02/20/91	GWM	--	--	--	--	--	< 1	--	9.5	--	--

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			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
Recovery Well (cont'd) (4-104')	03/06/91	GWM	--	--	--	--	--	< 1	--	10.2	--	--
	03/19/91	GWM	--	--	--	--	--	< 1	--	10.4	--	--
	04/02/91	GWM	--	--	--	--	--	< 1	--	11.4	--	--
	04/16/91	GWM	--	--	--	--	--	< 1	--	9.1	--	--
	05/01/91	GWM	--	--	--	--	--	< 1	--	11	--	--
	05/14/91	GWM	--	--	--	--	--	< 1	--	12	--	--
	06/05/91	GWM	--	--	--	--	--	< 1	--	6.4	--	--
	06/18/91	GWM	--	--	--	--	--	< 1	--	10.4	--	--
	07/02/91	GWM	--	--	--	--	--	< 1	--	7.7	--	--
	07/16/91	GWM	--	--	--	--	--	< 1	--	14	--	--
	08/06/91	GWM	--	--	--	--	--	< 1	--	11	--	--
	08/20/91	GWM	--	--	--	--	--	< 1	--	12	--	--
	09/03/91	GWM	--	--	--	--	--	< 1	--	6.2	--	--
	09/17/91	GWM	--	--	--	--	--	< 1	--	11	--	--
	10/01/91	GWM	--	--	--	--	--	< 1	--	20	--	--
	10/15/91	GWM	--	--	--	--	--	< 1	--	38	--	--
	11/05/91	GWM	--	--	--	--	--	< 1	--	7.5	--	--
	11/19/91	GWM	--	--	--	--	--	< 1	--	12	--	--
	12/03/91	GWM	--	--	--	--	--	< 1	--	12	--	--
	12/16/91	GWM	--	--	--	--	--	< 1	--	12	--	--
	12/17/91	GWM	--	--	--	--	--	< 1	--	9	--	--
	01/03/92	GWM	--	--	--	--	--	< 1	--	9.8	--	--
	01/14/92	GWM	--	--	--	--	--	< 1	--	20	--	--
	02/04/92	GWM	--	--	--	--	--	< 1	--	7.1	--	--
	02/18/92	GWM	--	--	--	--	--	< 1	--	7.7	--	--
	03/03/92	GWM	--	--	--	--	--	< 1	--	7	--	--
	03/17/92	GWM	--	--	--	--	--	< 1	--	10	--	--
	04/01/92	GWM	--	--	--	--	--	< 1	--	14	--	--
	04/14/92	GWM	--	--	--	--	--	< 1	--	8.1	--	--
	05/13/92	GWM	--	--	--	--	--	< 1	--	6	--	--
	06/09/92	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	6	< 1	--
	07/08/92	GWM	--	--	--	--	--	< 1	--	6.6	--	--
	08/11/92	GWM	--	--	--	--	--	< 1	--	13	--	--
	09/09/92	GWM	--	--	--	--	--	< 1	--	9.9	--	--
	10/13/92	GWM	--	--	--	--	--	< 1	--	8.7	--	--
	11/10/92	GWM	--	--	--	--	--	< 1	--	7	--	--
	12/08/92	GWM	--	--	--	--	--	< 1	--	8.8	--	--
	01/12/93	GWM	--	--	--	--	--	< 1	--	12	--	--
	02/10/93	GWM	--	--	--	--	--	< 1	--	7.7	--	--
	03/09/93	GWM	--	--	--	--	--	< 1	--	9	--	--
	04/14/93	GWM	--	--	--	--	--	< 1	--	8.9	--	--
	05/11/93	GWM	--	--	--	--	--	< 1	--	14	--	--
	06/08/93	GWM	--	--	--	--	--	< 1	--	10	--	--
	07/14/93	GWM	--	--	--	--	--	< 1	--	11	--	--
	08/10/93	GWM	--	--	--	--	--	< 1	--	12	--	--
	09/08/93	GWM	--	--	--	--	--	< 10	--	5.2	--	--
	10/20/93	GWM	--	--	--	--	--	< 1	--	9.6	--	--

Table 2
Summary of Groundwater Volatile Organic Compounds (VOCs) Analyses
Former BAE Facility
Lansdale, Pennsylvania

Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
Recovery Well (cont'd) (4-104')	11/09/93	GWM	--	--	--	--	--	< 1	--	7.3	--	--
	12/07/93	GWM	--	--	--	--	--	< 1	--	12	--	--
	01/11/94	GWM	--	--	--	--	--	< 1	--	6	--	--
	02/08/94	GWM	--	--	--	--	--	< 1	--	11	--	--
	03/08/94	GWM	--	--	--	--	--	< 1	--	12	--	--
	04/12/94	GWM	--	--	--	--	--	< 1	--	8.5	--	--
	05/16/94	GWM	--	--	--	--	--	< 1	--	9.3	--	--
	06/07/94	GWM	< 0.28	< 0.05	< 0.12	< 0.09	--	< 0.11	< 0.07	5.6	< 0.09	--
	07/12/94	GWM	--	--	--	--	--	< 1	--	34	--	--
	08/09/94	GWM	2.5	0.06	1.1	< 0.09	--	0.81	--	44	< 0.09	--
	09/13/94	GWM	--	--	--	--	--	1.2	--	44	--	--
	10/11/94	GWM	--	--	--	--	--	1.1	--	50	--	--
	11/09/94	GWM	2.4	< 0.05	1.2	0.09	--	1.1	--	45	< 0.09	--
	12/13/94	GWM	--	--	--	--	--	1.3	--	52	--	--
	01/10/95	GWM	--	--	--	--	--	1.4	--	50	--	--
	02/07/95	GWM	--	--	--	--	--	1.7	--	52	--	--
	03/07/95	GWM	--	--	--	--	--	1.2	--	40	--	--
	04/11/95	GWM	--	--	--	--	--	1.5	--	45	--	--
	05/09/95	GWM	2.6	< 0.4	1.5	< 0.56	--	1.7	< 0.45	49	< 0.68	--
	06/13/95	GWM	--	--	--	--	--	1.5	--	46	--	--
	07/12/95	GWM	1.4	< 1	< 1	< 1	3.2	< 1	< 1	35	--	--
	08/08/95	GWM	1.4	< 0.4	< 0.69	< 0.56	--	0.93	< 0.45	32	< 0.68	--
	08/21/95	GWM	1.4	< 0.4	< 0.69	< 0.4	--	0.93	< 0.45	32	< 0.68	--
	09/13/95	GWM	< 0.52	< 0.4	0.71	< 0.56	--	0.92	< 0.45	34	< 0.68	--
	10/11/95	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	--	--
	11/07/95	GWM	2.7	3	0.84	< 0.56	--	1.2	< 0.45	47	< 0.68	--
	12/13/95	GWM	1.4	< 0.4	< 0.69	< 0.56	--	1	< 0.45	30	< 0.68	--
	01/10/96	GWM	2	ND	1	ND	--	ND	ND	44	ND	--
	02/13/96	GWM	< 2	< 2	< 2	< 2	--	ND	ND	ND	ND	--
	04/10/96	GWM	2	< 2	< 2	< 2	4	1	< 2	52	< 2	--
	05/09/96	GWM	3	< 2	< 2	< 2	5	2	< 2	56	< 2	--
	06/14/96	GWM	2	< 2	< 2	< 2	4	1	--	47	< 2	--
	08/07/96	GWM	2	< 2	< 2	< 2	--	1	< 2	37	< 2	--
	10/05/96	GWM	2	< 2	1	< 2	--	< 2	< 2	43	< 2	--
	11/15/96	GWM	< 2	< 2	< 2	< 2	--	< 2	< 2	39	< 2	--
	12/13/96	GWM	< 5	< 5	< 5	< 5	--	< 3.5	< 5	31	< 5	--
	01/09/97	GWM	< 2	< 2	< 2	< 2	--	1.4	< 2	46	< 2	--
	02/12/97	GWM	2	< 2	1	< 2	--	2	< 2	49	< 2	--
	03/13/97	GWM	< 2	< 2	< 2	< 2	--	4.4	< 2	50	< 2	--
	04/25/97	GWM	< 2	< 2	< 2	< 2	--	2	< 2	49	< 2	--
	05/27/97	GWM	2.1	1	1.7	1	--	1.9	1	56	1	--
	06/04/97	GWM	2	< 1	1.4	< 2	--	1.7	< 2	47	< 2	--
	07/10/97	GWM	< 2	< 2	< 2	< 2	--	< 2	< 2	55	< 2	--
	08/20/97	GWM	2	1	1	1	--	1	1	38	1	--
	09/17/97	GWM	1	1	1	1	--	2	1	40	1	--
	10/13/97	GWM	< 2	< 2	< 2	< 2	--	< 2	< 2	48	< 2	--
	11/20/97	GWM	1	1	1	1	--	1	1	22	1	--

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Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
Recovery Well (cont'd) (4-104')	12/03/97	GWM	1	1	1	1	--	1	1	71	1	--
	01/16/98	GWM	< 2	< 2	< 2	< 2	--	< 2	< 2	49	< 2	--
	02/06/98	GWM	< 2	< 2	< 2	< 2	--	< 2	< 2	44	< 2	--
	03/06/98	GWM	2.57	< 1	1.49	< 2	4.35	1.4	< 2	49.2	< 2	--
	04/09/98	GWM	< 2	< 2	< 2	< 2	--	1.6	< 2	48	< 2	--
	05/12/98	GWM	< 2	< 2	< 2	< 2	--	< 1.4	< 2	36	< 2	--
	06/11/98	GWM	< 2	< 2	< 2	< 2	--	1.4	< 2	37	< 2	--
	07/10/98	GWM	< 2	< 2	< 2	< 2	--	< 1.4	< 2	37	< 2	--
	08/20/98	GWM	2.1	< 1	1.2	< 2	--	1.9	< 1	44	< 2	--
	09/17/98	GWM	< 2	< 2	< 2	< 2	--	< 1.4	< 2	40	< 2	--
	10/15/98	GWM	< 5	< 5	< 5	< 5	--	< 3.5	< 5	31	< 5	--
	11/05/98	GWM	1	< 1	< 1	< 1	--	1	< 1	36	< 1	--
	12/10/98	GWM	< 5	< 5	< 5	< 5	--	3.5	< 5	25.8	< 5	--
	01/21/99	GWM	< 1	< 1	< 1	< 1	--	< 0.07	< 1	28	< 1	--
	02/11/99	GWM	< 1	< 1	1	< 1	--	2.6	< 1	28	< 1	--
	03/19/99	GWM	1.6	< 1	1.2	< 2	--	1.9	< 1	41	< 2	--
	04/15/99	GWM	< 1	< 1	1	< 1	--	2.6	< 1	28	< 1	--
	05/06/99	GWM	ND	ND	ND	ND	--	ND	ND	21	ND	--
	06/10/99	GWM	1.1	< 1	< 1	< 1	--	< 1	< 1	21	< 2	--
	07/07/99	GWM	1.1	< 1	< 1	< 1	--	< 1	< 1	23.3	< 2	--
	08/12/99	GWM	< 1	< 1	1	< 1	--	< 0.7	< 1	16.7	< 1	--
	09/02/99	GWM	< 1	< 1	1	< 1	--	< 0.7	< 1	20.6	< 1	--
	10/02/99	GWM	ND	ND	ND	ND	--	ND	ND	17.7	ND	--
	10/06/99	GWM	< 1	< 1	1	< 1	--	< 0.7	< 1	21	< 2	--
	10/07/99	GWM	ND	ND	ND	ND	--	ND	ND	21	ND	--
	11/11/99	GWM	< 1	< 1	1	< 1	--	< 0.7	< 1	19.1	< 2	--
	12/02/99	GWM	< 1	< 1	< 1	< 1	--	< 0.7	< 1	17.7	< 1	--
	05/15/00	GWM	1.3	< 1	1.3	< 1	--	1.6	< 1	42.2	< 2	--
	05/31/00	GWM	< 1	< 1	< 1	< 1	--	1.6	< 1	21.1	< 2	--
	10/31/00	GWM	1	< 1	< 1	< 1	--	< 0.7	< 1	20.6	< 2	--
	11/13/01	GWM	< 1	< 1	< 1	< 1	--	< 0.7	< 1	13.1	< 2	--
	04/11/02	GWM	< 1	< 1	< 1	< 1	--	< 10	< 1	14.4	< 2	--
	11/21/02	GWM	< 1	< 1	< 1	< 1	--	< 10	< 1	15.4	< 2	--
	06/04/03	GWM	< 1	< 1	< 1	< 1	--	< 10	< 1	14.6	< 2	--
	11/14/03	GWM	< 1	< 1	< 1	< 1	--	< 20	< 1	16.8	< 2	--
	04/13/04	GWM	< 1	< 1	< 1	< 1	--	< 20	< 1	13.6	< 2	--
	10/19/04	GWM	ND	ND	ND	ND	--	ND	ND	25.9	ND	--
	04/12/06	GWM	--	< 2	< 2	< 2	--	< 1	< 2	16	< 2	--
	08/04/09	GWM	--	--	--	--	--	--	--	13	--	--
	11/23/09	GWM	--	--	--	--	--	--	--	13	--	--
	12/01/09	GWM	--	--	--	--	--	--	--	12	--	--
	01/18/10	GWM	--	--	--	--	--	--	--	13	--	--
	02/20/10	GWM	--	--	--	--	--	--	--	13	--	--
	03/02/10	GWM	--	--	--	--	--	--	--	12	--	--
	04/05/10	GWM	--	--	--	--	--	--	--	13	--	--
	05/03/10	GWM	--	--	--	--	--	--	--	12	--	--
	06/17/10	GWM	--	--	--	--	--	--	--	50	--	--

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			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
Recovery Well (cont'd) (4-104')	07/02/10	GWM	--	--	--	--	--	--	--	11	--	--
	08/05/10	GWM	--	--	--	--	--	--	--	10	--	--
	08/16/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	7	< 1	--
	11/16/10	MNA	1 J	< 1	< 0.8	< 1	4 J	< 0.8	< 0.8	95	< 1	--
	02/23/11	MNA	< 0.8	< 1	< 0.8	< 1	2 J	< 0.8	< 0.8	55	< 1	--
	05/04/11	MNA	< 0.8	< 1	< 0.8	< 1	3 J	< 0.8	< 0.8	30	< 1	--
	08/19/11	MNA	< 0.8	< 1	< 0.8	< 1	4 J	< 0.8	< 0.8	37	< 1	--
	11/09/11	MNA	< 0.8	< 1	< 0.8	< 1	7	< 0.8	< 0.8	61	< 1	--
	02/17/12	MNA	< 0.8	< 1	< 0.8	< 1	4 J	< 0.8	< 0.8	48	< 1	--
	05/03/12	MNA	< 0.8	< 1	< 0.8	< 1	5	< 0.8	< 0.8	48	< 1	--
	08/20/12	MNA	< 0.8	< 1	< 0.8	< 1	2 J	< 0.8	< 0.8	32	< 1	--
	11/19/12	MNA	< 0.8	< 1	< 0.8	< 1	4 J	< 0.8	< 0.8	46	< 1	--
	02/06/13	MNA	< 0.8	< 1	< 0.8	< 1	5	< 0.8	< 0.8	53	< 1	--
	05/08/13	MNA	< 0.8	< 1	< 0.8	< 1	19	< 0.8	< 0.8	120	< 1	--
	08/12/13	MNA	< 0.8	< 1	< 0.8	< 1	6	< 0.8	< 0.8	62	< 1	--
RI-19D (70-80')	07/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	< 10	--	< 10	< 10	--
	09/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	< 10	--	< 10	< 10	--
	11/13/01	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 2	--
	04/15/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 2	--
	11/19/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 2	--
	05/05/03	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 2	--
	08/13/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	11/19/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	02/16/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	05/05/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/16/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	11/10/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	02/16/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	05/04/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/20/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	11/16/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	02/05/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	05/07/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/06/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
RI-19S (46-56')	07/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	< 10	--	1 B	< 10	--
	09/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	< 10	--	< 10	< 10	--
	11/19/01	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 2	--
	04/15/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 2	--
	11/18/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 2	--
	05/05/03	GWM	< 1	< 1	< 1	< 1	--	< 1	--	1	< 2	--
	08/13/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
Duplicate	08/13/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--

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Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
RI-19S (cont'd) (46-56')	11/19/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	02/16/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	05/05/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/16/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	11/10/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	1 J	< 1	--
	02/16/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	05/04/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
Duplicate	05/04/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/20/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	1 J	< 1	--
	11/16/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	02/05/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	05/07/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/06/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
RI-20D (100-110')	09/01/98	EPA RI/FS	1 J	ND	2 J	ND	--	ND	--	6 J	ND	--
	10/01/98	EPA RI/FS	< 10	ND	1 J	ND	--	ND	--	5 J	ND	--
	10/31/00	GWM	1	< 1	1.5	< 1	--	< 1	< 1	4	< 2	--
	06/06/01	GWM	1.1	< 1	8.8	< 1	--	< 1	< 1	19	< 2	--
	11/13/01	GWM	1.1	< 1	1.5	< 1	--	< 1	< 1	3.7	< 2	--
	04/17/02	GWM	< 1	< 1	1.1	< 1	--	< 1	< 1	3.9	< 2	--
	11/18/02	GWM	1	< 1	1.4	< 1	--	< 1	< 1	4	< 2	--
	09/29/04	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 1	< 2	--
	01/26/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 1	< 2	--
	04/25/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	4.8	< 2	--
	03/21/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	06/16/08	PDI	< 0.8	< 1	1 J	< 1	< 0.8	< 0.8	< 0.8	3 J	< 1	--
	08/11/10	MNA	< 0.8	< 1	1 J	< 1	< 0.8	< 0.8	< 0.8	3 J	< 1	--
	11/18/10	MNA	< 0.8	< 1	1 J	< 1	< 0.8	< 0.8	< 0.8	3 J	< 1	--
Duplicate	11/18/10	MNA	< 0.8	< 1	1 J	< 1	< 0.8	< 0.8	< 0.8	3 J	< 1	--
	08/17/11	MNA	< 0.8	< 1	1 J	< 1	< 0.8	< 0.8	< 0.8	3 J	< 1	--
	08/15/12	MNA	0.9 J	< 1	1 J	< 1	< 0.8	< 0.8	< 0.8	3 J	< 1	--
	08/07/13	MNA	1 J	< 1	1 J	< 1	< 0.8	< 0.8	< 0.8	4 J	< 1	--
RI-20S (70-80')	09/01/98	EPA RI/FS	150 L	< 50	370 L	< 50	--	< 50	--	320 L	< 50	--
Duplicate	09/01/98	EPA RI/FS	130 L	17 L	330 L	ND	--	4 J	--	290 L	ND	--
	10/01/98	EPA RI/FS	140	ND	210	ND	--	3 J	--	230	ND	--
	10/31/00	GWM	1.4	< 1	14	< 1	--	< 1	< 1	22	< 2	--
	06/06/01	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 2	--
	11/20/01	GWM	96	8.6	162	< 1	--	1.6	< 1	181	< 2	--
	04/17/02	GWM	104	11	218	< 1	--	3.2	< 1	216	< 2	--
	11/18/02	GWM	112	1.2	211	< 1	--	3.2	< 1	154	< 2	--
	09/29/04	GWM	70	6.6	170	< 1	6	1.6	< 1	210	< 2	--
	12/10/04**	GWM	64	10	280	< 1	7.4	1.2	< 1	200	< 2	--
	12/28/04	GWM	38	4.2	170	< 1	5.1	1.7	< 1	150	< 2	--
	01/26/05	GWM	3.4	< 1	34	< 1	< 1	< 1	< 1	34	< 2	--
	04/25/05	GWM	39	4.2	160	< 1	5.3	1.6	< 1	150	< 2	--
	02/14/08	GWM	19	3 J	110	< 1	4 J	1 J	< 1	100	< 2	--

Table 2
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Former BAE Facility
Lansdale, Pennsylvania

Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
RI-20S (cont'd') (70-80')	03/21/08	PDI	30	4 J	160	< 1	4 J	2 J	< 0.8	150	< 1	--
	06/16/08	PDI	43	7	230	< 1	7	2 J	< 0.8	220	< 1	--
	08/04/09	GWM	--	--	--	--	--	--	--	39	--	--
	10/09/09	GWM	--	--	--	--	--	--	--	79	--	--
	11/23/09	GWM	--	--	--	--	--	--	--	140	--	--
	12/01/09	GWM	--	--	--	--	--	--	--	120	--	--
	01/18/10	GWM	--	--	--	--	--	--	--	140	--	--
	02/20/10	GWM	--	--	--	--	--	--	--	78	--	--
	03/02/10	GWM	--	--	--	--	--	--	--	16	--	--
	04/05/10	GWM	--	--	--	--	--	--	--	65	--	--
	05/03/10	GWM	--	--	--	--	--	--	--	91	--	--
	06/17/10	GWM	--	--	--	--	--	--	--	75	--	--
	07/02/10	GWM	--	--	--	--	--	--	--	65	--	--
	08/05/10	GWM	--	--	--	--	--	--	--	3 J	--	--
	08/11/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	2 J	< 1	--
	11/18/10	MNA	15	3 J	59	< 1	4 J	3 J	< 0.8	150	< 1	0.051
	02/08/11	MNA	16	3 J	53	< 1	4 J	3 J	< 0.8	160	< 1	0.049 J
	05/04/11	MNA	15	3 J	48	< 1	4 J	4 J	< 0.8	160	< 1	0.020 J
	08/23/11	MNA	16	3 J	69	< 1	4 J	4 J	< 0.8	170	< 1	0.059
	11/08/11	MNA	11	3 J	51	< 1	4 J	3 J	< 0.8	150	< 1	0.061
	02/15/12	MNA	15	3 J	48	< 1	4 J	4 J	< 0.8	150	< 1	0.068
	05/03/12	MNA	11	2 J	40	< 1	4 J	4 J	< 0.8	130	< 1	0.049 J
	08/21/12	MNA	14	4 J	64	< 1	4 J	4 J	< 0.8	160	< 1	0.069
	11/20/12	MNA	10	3 J	54	< 1	4 J	3 J	< 0.8	150	< 1	0.055
	02/07/13	MNA	11	3 J	47	< 1	4 J	4 J	< 0.8	140	< 1	0.047 J
	05/10/13	MNA	13	3 J	69	< 1	4 J	4 J	< 0.8	170	< 1	0.049 J
	08/14/13	MNA	11	3 J	48	< 1	3 J	3 J	< 0.8	140	< 1	0.036 J
Duplicate	08/14/13	MNA	11	3 J	48	< 1	3 J	4 J	< 0.8	140	< 1	--
RI-30	09/01/98	GWM	< 10	< 10	< 10	< 10	--	< 10	--	< 10	< 10	--
	05/14/03	GWM	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	--
	05/10/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	06/28/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/14/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
RI-31	05/14/03	GWM	< 5	< 5	< 5	< 5	85 B	< 5	< 5	1,000 +	< 5	--
	06/24/03	GWM	ND	ND	ND	ND	72	ND	ND	1,000 +	ND	--
	01/06/05	GWM	< 2	< 2	< 2	< 2	110	< 5	< 2	1900	< 2	--
	05/08/12	MNA	< 0.8	< 1	< 0.8	< 1	93	< 0.8	< 0.8	460	< 1	--
	02/07/13	MNA	< 0.8	< 1	< 0.8	< 1	140	< 0.8	3 J	580	< 1	--
	05/10/13	MNA	< 0.8	< 1	< 0.8	< 1	150	0.9 J	2 J	890	< 1	--
	08/13/13	MNA	< 0.8	< 1	< 0.8	< 1	150	1 J	< 0.8	1,000	< 1	--
Split sample^	08/13/13	MNA	< 1.0	< 1 .0	< 1.0	< 0.50	130	< 1.0	1.4	850	< 0.50	--

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Lansdale, Pennsylvania

Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
RW-1 (23-70') SS	06/01/80	CH2M-HILL	165	< 1	1.7	--	8.5	3	1.4	2000	--	--
	06/01/80	CH2M-HILL	--	--	--	--	--	--	--	292	--	--
	06/03/80	GWM	169	--	--	--	--	7.7	--	2,165	--	--
	09/04/80	GWM	--	--	--	--	--	8.9	--	4,060	--	--
	12/05/80	GWM	--	--	--	--	--	--	--	913.9	--	--
	04/07/81	GWM	--	--	--	--	--	--	--	830	--	--
	05/08/81	CH2M-HILL	--	--	--	--	--	--	--	997	--	--
	06/23/81	CH2M-HILL	--	--	--	--	--	--	--	--	--	--
	11/13/81	CH2M-HILL	--	--	--	--	--	--	--	1,500	--	--
	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	1,300	--	--
	05/17/83	CH2M-HILL	--	--	--	--	--	--	--	1,000	--	--
	07/19/84	CH2M-HILL	--	--	--	--	--	--	--	628	--	--
	03/19/86	CH2M-HILL	--	--	--	--	--	--	--	249	--	--
	05/02/86	CH2M-HILL	--	--	--	--	--	--	--	354	--	--
	06/10/86	GWM	--	--	--	--	--	--	--	292	--	--
	07/29/86	CH2M-HILL	--	--	--	--	--	--	--	288	--	--
	03/15/87	GWM	--	--	--	--	--	--	--	265	--	--
	09/01/87	CH2M-HILL	--	--	--	--	--	5.2	--	--	--	--
	09/15/87	GWM	--	--	--	--	--	--	--	240	--	--
	03/15/88	GWM	--	--	--	--	--	--	--	292	--	--
	03/21/88	CH2M-HILL	--	--	--	--	--	7.52	--	--	--	--
	09/15/88	GWM	--	--	--	--	--	--	--	260	--	--
	03/01/89	GWM	--	--	--	--	--	--	--	220	--	--
	10/16/89	GWM	--	--	--	--	--	3.5	--	170	--	--
	06/09/92	GWM	46	< 5	8	< 5	--	< 5	< 5	190	< 10	--
	09/17/92	GWM	44	< 5	21	< 5	--	< 5	< 5	190	< 10	--
	11/17/92	GWM	31	< 5	17	< 5	--	< 5	< 5	190	< 10	--
	03/11/93	GWM	52	< 5	15	< 5	--	6	< 5	300	< 10	--
	06/11/93	GWM	20	< 5	< 5	< 5	--	< 5	< 5	120	< 10	--
	09/30/93	GWM	53	< 5	16	< 5	--	6	< 5	220	< 10	--
	11/22/93	GWM	58	< 5	10	< 5	--	< 5	< 5	200	< 10	--
	03/31/94	GWM	38	< 5	14	< 5	--	< 5	< 5	200	< 10	--
	06/07/94	GWM	54	< 5	12	< 5	--	5	< 5	290	< 10	--
	08/05/94	GWM	ND	ND	16	ND	--	4	ND	190	ND	--
	11/09/94	GWM	48	< 1.4	12	< 1.9	--	4.2	< 1.8	170	< 2.6	--
	03/16/95	GWM	57	ND	23.6	ND	7.5	5	--	239	ND	--
	05/16/95	GWM	< 1	< 1	14	< 1	7.8	5	< 1	242	< 1	--
	08/21/95	GWM	84	< 5	28	< 5	--	6	< 5	280	< 10	--
	11/08/95	GWM	63	1	15	1	9	5	1	250	1	--
	03/29/96	GWM	59	ND	18	ND	9	5	ND	240	ND	--
	06/14/96	GWM	30	ND	11	ND	6	3	ND	180	ND	--
	09/19/96	GWM	49	ND	9	ND	--	4	ND	210	ND	--
	12/13/96	GWM	63	< 1	15	< 2	--	8	< 1	210	< 2	--
	03/26/97	GWM	30	ND	8	ND	--	ND	ND	170	ND	--
	06/04/97	GWM	23	ND	6	ND	--	2	ND	160	ND	--
	04/01/98	EPA RI/FS	26	< 10	8 J	< 10	--	3 J	--	170	< 10	--
	04/29/98	GWM	56	1.1	17.3	< 20	--	6.4	< 20	210	< 20	--

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Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
RW-1 (23-70') (cont'd)	08/01/98	EPA RI/FS	53	< 10	10 J	< 10	--	5 J	--	270	< 10	--
	10/15/98	GWM	41	< 5	9.8	< 10	--	10	< 5	380	< 10	--
	10/30/98	GWM	56	--	--	--	--	6.4	--	210	--	--
	06/18/99	GWM	65	1.2	15	< 20	--	8.6	< 10	392	< 20	--
	10/06/99	GWM	36	< 50	13	< 10	--	< 50	< 50	196	< 10	--
	05/31/00	GWM	54	< 10	20	< 10	--	6.9	< 10	360	< 20	--
	10/31/00	GWM	24	< 10	9.5	< 10	--	2	< 10	117	< 20	--
	06/06/01	GWM	15	< 10	4.9	< 10	--	1.6	< 10	116	< 20	--
	11/13/01	GWM	26	< 10	17	< 1	--	1.9	< 1	126	< 2	--
	04/11/02	GWM	15	< 10	8.6	< 10	--	1.6	< 10	100	< 20	--
	11/19/02	GWM	27	1.6	29	< 1	--	2.1	< 1	200	< 2	--
	06/13/03	GWM	67	1.4	27.4	< 1	--	4.6	< 1	242	< 2	--
	11/06/03	GWM	77.2	1.7	32.5	< 10	--	3.6	< 10	232	< 20	--
	04/22/04	GWM	53.6	3.4	21.3	< 10	--	3.8	< 10	238	< 10	--
	09/27/04	GWM	38	< 2	12	< 2	8.7	3.6	< 2	200	< 2	--
	09/28/04	GWM	40	< 2	11	< 2	9.1	3.7	< 2	200	< 2	--
	12/10/04**	GWM	21	< 2	14	< 2	4.6	1.4	< 2	130	< 2	--
	12/28/04	GWM	15	< 2	8.8	< 2	3.1	1.1	< 2	100	< 2	--
	01/26/05	GWM	56	< 2	23	< 2	15	4.4	< 2	370	< 2	--
	04/25/05	GWM	10	< 2	8.5	< 2	2.6	< 1	< 2	64	< 2	--
	04/12/06	GWM	--	< 2	7.1	< 2	--	< 1	< 2	42	< 2	--
Duplicate	04/12/06	GWM	--	< 2	6.5	< 2	--	< 1	< 2	40	< 2	--
	10/11/06	GWM	--	--	--	--	--	0.49 J	--	33	--	--
	04/26/07	GWM	--	< 5	120	< 5	--	< 5	< 5	190	< 5	--
	03/20/08	PDI	11	< 1	22	< 1	3 J	1 J	< 0.8	57	< 1	--
	03/20/08*	GWM	10	< 1	19	< 1	3 J	1 J	< 1	59	< 2	--
	06/17/08	PDI	5 J	< 1	3 J	< 1	2 J	< 0.8	< 0.8	52	< 1	--
	08/04/09	GWM	--	< 1	31	< 1	--	< 1	< 1	46	< 2	--
	10/09/09	GWM	--	--	--	--	--	--	--	53	--	--
	11/23/09	GWM	--	--	--	--	--	--	--	49	--	--
	12/01/09	GWM	--	--	--	--	--	--	--	93	--	--
	01/18/10	GWM	--	--	--	--	--	--	--	45	--	--
	02/20/10	GWM	--	--	--	--	--	--	--	37	--	--
	03/02/10	GWM	--	< 1	44	< 1	--	1 J	< 1	48	< 2	--
	04/05/10	GWM	--	--	--	--	--	--	--	55	--	--
	05/03/10	GWM	--	--	--	--	--	--	--	53	--	--
	06/17/10	GWM	--	--	--	--	--	--	--	20	--	--
	07/02/10†	GWM	--	--	--	--	--	--	--	4 J	--	--
	08/05/10	GWM	--	2 J	170	< 1	--	2 J	< 1	120	< 2	--
	08/11/10	MNA	53	3 J	220	< 1	5	2 J	< 0.8	160	< 1	--
	11/18/10	MNA	3 J	< 1	5 J	< 1	3 J	1 J	< 0.8	55	< 1	0.080
	02/16/11	GWM	--	--	--	--	--	2 J	--	69	--	--
	02/16/11	MNA	4 J	< 1	5 J	< 1	5 J	2 J	< 0.8	76	< 1	0.054
	05/04/11	MNA	4 J	< 1	3 J	< 1	4 J	1 J	< 0.8	64	< 1	0.061
	08/23/11	MNA/GWM	4 J	< 1	3 J	< 1	4 J	1 J	< 0.8	68	< 1	0.04 J
	11/09/11	MNA	3 J	< 1	2 J	< 1	3 J	1 J	< 0.8	68	< 1	0.048 J
	02/15/12	MNA	4 J	< 1	2 J	< 1	3 J	1 J	< 0.8	71	< 1	0.069

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			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
RW-1 (23-70') (cont'd)	02/16/12	GWM	--	--	--	--	--	1 J	--	71	--	--
	05/03/12	MNA	3 J	< 1	2 J	< 1	3 J	1 J	< 0.8	74	< 1	0.053
	08/21/12	MNA	4 J	< 1	3 J	< 1	4 J	1 J	< 0.8	82	< 1	0.076
	11/19/12	MNA	3 J	< 1	2 J	< 1	3 J	1 J	< 0.8	73	< 1	0.063
	02/06/13	MNA	3 J	< 1	2 J	< 1	3 J	1 J	< 0.8	77	< 1	0.060
	05/08/13	MNA	4 J	< 1	3 J	< 1	3 J	1 J	< 0.8	85	< 1	0.066
	08/14/13	MNA	3 J	< 1	2 J	< 1	3 J	1 J	< 0.8	72	< 1	0.029 J
RW-2 (80-150')	06/01/80	CH2M-HILL	4	< 1	< 1	--	< 1	< 1	< 1	85	--	--
	06/03/80	GWM	11.6	--	--	--	--	7.3	--	92	--	--
	09/04/80	GWM	--	--	--	--	--	ND	--	9.6	--	--
	12/05/80	GWM	--	--	--	--	--	--	--	149.1	--	--
	04/07/81	GWM	--	--	--	--	--	--	--	225	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	52.8	--	--
	04/19/82	CH2M-HILL	1	--	< 0.5	< 0.5	< 0.5	< 0.5	--	9.4	--	--
SS	04/19/82	CH2M-HILL	0.8	--	< 0.5	< 0.5	< 0.5	< 0.5	--	5.8	--	--
TS	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	5.1	--	--
	05/17/83	CH2M-HILL	--	--	--	--	--	--	--	74.7	--	--
	07/19/84	CH2M-HILL	--	--	--	--	--	--	--	5.2	--	--
	03/19/86	CH2M-HILL	--	--	--	--	--	--	--	36.6	--	--
	05/02/86	CH2M-HILL	--	--	--	--	--	--	--	25.7	--	--
	06/10/86	GWM	--	--	--	--	--	--	--	4.9	--	--
	07/29/86	CH2M-HILL	--	--	--	--	--	--	--	4.9	--	--
	03/15/87	GWM	--	--	--	--	--	--	--	< 1	--	--
	09/01/87	CH2M-HILL	--	--	--	--	--	< 1	--	--	--	--
	09/15/87	GWM	--	--	--	--	--	--	--	0.23	--	--
	03/01/88	CH2M-HILL	--	--	--	--	--	< 1	--	--	--	--
	03/15/88	GWM	--	--	--	--	--	--	--	0.89	--	--
	03/21/88	CH2M-HILL	--	--	--	--	--	--	--	112	--	--
	09/15/88	GWM	--	--	--	--	--	--	--	2	--	--
	03/01/89	GWM	--	--	--	--	--	--	--	ND	--	--
	10/16/89	GWM	--	--	--	--	--	ND	--	< 1	--	--
	04/03/95	GWM	ND	ND	ND	--	ND	ND	--	ND	ND	--
	01/16/96	GWM	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/19/96	GWM	ND	ND	ND	ND	--	ND	ND	ND	ND	--
	04/01/98	EPA RI/FS	ND	ND	ND	ND	--	ND	--	ND	ND	--
	08/01/98	EPA RI/FS	ND	ND	ND	ND	--	ND	--	ND	ND	--
	11/13/01	GWM	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10	< 20	--
	01/26/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 1	< 2	--
	04/28/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 1	< 2	--
Duplicate	04/28/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 1	< 2	--
	03/24/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
Duplicate	03/24/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	06/17/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/16/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	11/17/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--

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Summary of Groundwater Volatile Organic Compounds (VOCs) Analyses
Former BAE Facility
Lansdale, Pennsylvania

Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
RW-2 (cont'd.) (80-150')	08/19/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/16/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/06/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
RW-3 (150-210')	06/01/80	CH2M-HILL	< 1	< 1	< 1	--	< 1	< 1	< 1	< 1	--	--
	06/03/80	GWM	0.5	--	--	--	--	0.5	--	0.5	--	--
	12/05/80	GWM	--	--	--	--	--	--	--	1.3	--	--
	04/07/81	CH2M-HILL	--	--	--	--	--	--	--	0.7	--	--
	04/07/81	GWM	--	--	--	--	--	--	--	0.3	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	> 0.1	--	--
	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	< 1	--	--
	05/17/83	CH2M-HILL	--	--	--	--	--	--	--	< 1	--	--
	07/19/84	CH2M-HILL	--	--	--	--	--	--	--	2.5	--	--
	03/19/86	CH2M-HILL	--	--	--	--	--	--	--	2.1	--	--
	05/02/86	CH2M-HILL	--	--	--	--	--	--	--	< 1	--	--
	06/10/86	GWM	--	--	--	--	--	--	--	< 1	--	--
	07/29/86	CH2M-HILL	--	--	--	--	--	--	--	< 1	--	--
	03/15/87	GWM	--	--	--	--	--	--	--	< 1	--	--
	09/01/87	CH2M-HILL	--	--	--	--	--	< 1	--	--	--	--
	09/15/87	GWM	--	--	--	--	--	--	--	< 1	--	--
	03/01/88	CH2M-HILL	--	--	--	--	--	< 1	--	--	--	--
	03/15/88	GWM	--	--	--	--	--	--	--	ND	--	--
	09/15/88	GWM	--	--	--	--	--	--	--	< 1	--	--
	03/01/89	GWM	--	--	--	--	--	--	--	< 1	--	--
	03/30/89	CH2M-HILL	--	--	--	--	--	--	--	< 1	--	--
	10/16/89	GWM	--	--	--	--	--	ND	--	ND	--	--
	04/03/95	GWM	ND	ND	ND	--	ND	ND	--	ND	ND	--
	01/16/96	GWM	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
RW-3 (cont'd.) (150-210')	04/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	< 10	--	< 10	< 10	--
	08/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	< 10	--	< 10	< 10	--
	11/13/01	GWM	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10	< 20	--
	01/27/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 1	< 2	--
	04/28/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 1	< 2	--
	03/24/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	06/17/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/16/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
Duplicate	08/16/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	11/17/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/19/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/16/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
Duplicate	08/16/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/06/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
RW-4 (unknown)	04/03/95	GWM	ND	ND	ND	--	ND	ND	--	ND	ND	--
	01/16/96	GWM	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/30/97	GWM	ND	ND	ND	ND	ND	0.1 J	ND	0.03 J	ND	--
	08/18/98	GWM	0.05 J	ND	ND	ND	0.03 J	ND	ND	0.2 J	ND	--

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Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
RW-4D (150-300')	04/14/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	4.3	< 2	--
	06/18/02	GWM	0.1 J	--	--	--	7.4	0.06 J	--	70 J	--	--
	11/18/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	4.4	< 2	--
	05/06/03	GWM	< 0.5	< 0.5	< 0.5	< 0.5	1 J	< 0.5	< 0.5	4 B	< 0.5	--
	11/11/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	1 J	< 1	--
	08/17/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	1 J	< 1	--
	08/07/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	1 J	< 1	--
RW-4I (50-150')	04/15/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	4.3	< 2	--
	06/18/02	GWM	--	--	--	--	--	--	--	1.7	--	--
	11/15/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	1.8	< 2	--
	05/06/03	GWM	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--
	01/06/05	GWM	< 2	< 2	< 2	< 2	< 2	< 5	< 2	1.7	< 2	--
	11/11/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/17/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/07/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
RW-4S (20-50')	04/16/02	GWM	< 1	< 1	< 1	< 1	< 1	< 1	3.1	345	< 2	--
	06/18/02	GWM	0.5 J	--	0.2 J	--	28	0.4 J	0.9 J	500 J	--	--
	11/15/02	GWM	< 10	< 10	< 10	< 10	--	< 10	< 10	492	< 20	--
	05/06/03	GWM	< 0.5	< 0.5	< 0.5	< 0.5	55	< 0.5	< 0.5	590	< 0.5	--
Duplicate	05/06/03	GWM	< 0.5	< 0.5	< 0.5	< 0.5	50	< 0.5	< 0.5	510	< 0.5	--
	01/06/05	GWM	< 2	< 2	< 2	< 2	15	< 5	< 2	140	< 2	--
	01/06/05	GWM	< 2	< 2	< 2	< 2	16	< 5	< 2	140	< 2	--
	11/10/11	MNA	< 0.8	< 1	< 0.8	< 1	15	< 0.8	< 0.8	130	1 J	--
	08/17/12	MNA	< 0.8	< 1	< 0.8	< 1	10	< 0.8	< 0.8	84	< 1	--
	08/12/13	MNA	< 0.8	< 1	< 0.8	< 1	10	< 0.8	< 0.8	69	< 1	--
RW-5 (unknown)	04/03/95	GWM	ND	ND	ND	--	ND	ND	--	ND	ND	--
	01/16/96	GWM	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/30/97	GWM	ND	ND	ND	ND	ND	ND	ND	0.02 J	ND	--
RW-5D (150-300')	04/12/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	2.2	< 2	--
	06/18/02	GWM	--	--	--	--	0.2 J	--	--	8.5	--	--
	11/18/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 2	--
	05/06/03	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	< 2	--
	11/11/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/17/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/07/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
RW-5I (50-150')	04/12/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	11	< 2	--
	06/18/02	GWM	0.3 J	--	--	--	0.7 J	--	--	36	--	--
	11/18/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	16	< 1	--
	05/06/03	GWM	< 10	< 10	< 10	< 10	--	< 10	2 J	16	< 10	--
	01/07/05	GWM	< 2	< 2	< 2	< 2	< 2	< 5	< 2	51	< 2	--
Duplicate	01/07/05	GWM	ND	ND	ND	ND	ND	ND	ND	55	ND	--
	11/11/11	MNA	< 0.8	< 1	< 0.8	< 1	3 J	< 0.8	< 0.8	45	< 1	--
	08/17/12	MNA	< 0.8	< 1	< 0.8	< 1	0.9 J	< 0.8	< 0.8	11	< 1	--
	08/07/13	MNA	< 0.8	< 1	< 0.8	< 1	4 J	< 0.8	< 0.8	51	< 1	--
RW-5S (20-50')	04/12/02	GWM	5.3	< 1	< 1	< 1	--	< 1	< 1	2,800	< 2	--
	06/18/02	GWM	2.1	0.1 J	0.3 J	--	28 J	--	0.3 J	590	--	--
	11/18/02	GWM	3.2	< 10	< 10	< 10	--	< 10	7.1	2,620	< 20	--

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			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
RW-5S (cont'd) (20-50')	05/06/03	GWM	< 0.5	< 0.5	< 0.5	< 0.5	3	< 0.5	< 0.5	120	< 0.5	--
	01/07/05	GWM	< 2	< 2	< 2	< 2	31	< 5	< 2	790	< 2	--
	11/11/11	MNA	1 J	< 1	1 J	< 1	110	< 0.8	< 0.8	1,300	< 1	--
	08/17/12	MNA	< 2	< 2	< 2	< 2	98	< 2	2 J	1,400	< 2	--
	08/13/13	MNA	1 J	< 1	1 J	< 1	83	< 0.8	< 0.8	1,200	< 1	--
W-1 (9-40')	01/24/80	GWM	--	--	--	--	--	--	--	18,837	--	--
	02/04/80	GWM	--	--	--	--	--	--	--	60,200	--	--
	11/13/80	CH2M-HILL	--	--	--	--	--	--	--	8,800	--	--
	12/05/80	GWM	--	--	--	--	--	--	--	22,200	--	--
	04/07/81	GWM	--	--	--	--	--	--	--	5,400	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	9,440	--	--
	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	7,000	--	--
	04/21/82	CH2M-HILL	434.1	--	37.2	< 0.5	105.2	12.1	--	4,569	--	--
	04/21/82	CH2M-HILL	463.8	--	44.6	< 0.5	106	15.5	--	5,106	--	--
	05/17/83	CH2M-HILL	--	--	--	--	--	--	--	4,000	--	--
	07/19/84	CH2M-HILL	--	--	--	--	--	--	--	704	--	--
	03/18/86	CH2M-HILL	--	--	--	--	--	--	--	159.2	--	--
	05/01/86	CH2M-HILL	--	--	--	--	--	--	--	133	--	--
	06/10/86	GWM	--	--	--	--	--	--	--	180	--	--
	07/29/86	CH2M-HILL	--	--	--	--	--	--	--	180	--	--
	01/09/87	CH2M-HILL	--	--	--	--	--	1	--	--	--	--
	03/15/87	GWM	--	--	--	--	--	--	--	168	--	--
	09/01/87	CH2M-HILL	--	--	--	--	--	--	--	3	--	--
	09/15/87	GWM	--	--	--	--	--	--	--	0.3	--	--
	03/15/88	GWM	--	--	--	--	--	--	--	112	--	--
	03/21/88	CH2M-HILL	--	--	--	--	--	0.83	--	--	--	--
	09/15/88	GWM	--	--	--	--	--	--	--	84	--	--
	03/01/89	GWM	--	--	--	--	--	--	--	120	--	--
	10/16/89	GWM	--	--	--	--	--	1.7	--	99	--	--
	06/09/92	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	14	< 10	--
	09/17/92	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	44	< 10	--
	11/17/92	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	10	< 10	--
	03/11/93	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	9	< 10	--
	06/11/93	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	< 5	< 10	--
	09/30/93	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	15	< 10	--
	11/22/93	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	35	< 10	--
	03/31/94	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	9	< 10	--
	06/07/94	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	< 5	< 10	--
	08/05/94	GWM	1.1	ND	ND	ND	--	ND	ND	65	ND	--
	11/09/94	GWM	2.7	< 1.4	< 2.1	< 1.9	--	< 1.3	< 1.8	130	< 2.6	--
	03/16/95	GWM	< 1	< 1	< 1	< 1	4.3	< 1	< 1	57.1	< 1	--
	05/16/95	GWM	< 1	< 1	< 1	< 1	7	< 1	< 1	49	< 1	--
	08/21/95	GWM	11	< 5	< 5	< 5	--	< 5	< 5	< 5	< 10	--
	11/08/95	GWM	1	1	1	1	1	0.7	1	3	1	--
	03/29/96	GWM	ND	ND	ND	ND	5	ND	ND	28	ND	--
	06/14/96	GWM	ND	ND	ND	ND	6	ND	ND	64	ND	--
	09/19/96	GWM	ND	ND	ND	ND	--	ND	ND	14	ND	--

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			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
W-1 (cont'd) (9-40')	12/13/96	GWM	< 1	< 1	< 1	< 2	--	< 1	< 1	11	< 2	--
	03/26/97	GWM	ND	ND	ND	ND	--	ND	ND	100	ND	--
	06/04/97	GWM	ND	ND	ND	ND	--	ND	ND	22	ND	--
	04/01/98	EPA RI/FS	1 J	< 10	< 10	< 10	--	< 10	--	92	< 10	--
	04/29/98	GWM	ND	ND	ND	ND	--	ND	ND	110	ND	--
	08/01/98	GWM	2 J	ND	ND	ND	--	ND	--	150	ND	--
	10/15/98	GWM	< 2	< 2	< 2	< 4	--	< 2	< 2	8.3	< 4	--
	10/30/98	GWM	ND	--	--	--	--	ND	--	110	--	--
	06/18/99	GWM	< 10	< 10	< 10	< 20	--	< 10	< 10	1.6	< 20	--
	10/06/99	GWM	< 10	< 10	< 10	< 20	--	< 10	< 10	29	< 20	--
	05/31/00	GWM	< 10	< 10	< 10	< 10	--	< 10	< 10	13	< 20	--
	10/31/00	GWM	< 10	< 10	< 10	< 10	--	< 10	< 10	36	< 20	--
	05/10/01	GWM	< 10	< 10	< 10	< 10	--	< 10	< 10	29	< 20	--
	11/13/01	GWM	2.3	< 10	1.9	< 10	--	< 10	< 10	58	< 20	--
	04/19/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	41	< 2	--
	11/18/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	2.2	< 2	--
	06/13/03	GWM	< 10	< 10	< 10	< 10	--	< 10	< 10	23.2	< 20	--
	11/06/03	GWM	< 10	< 10	< 10	< 10	--	< 20	< 10	17.3	< 20	--
	04/22/04	GWM	< 10	< 10	< 10	< 10	--	< 10	< 10	37.2	< 10	--
Duplicate	09/28/04	GWM	< 2	< 2	< 2	< 2	6.8	< 1	< 2	73	< 2	--
	09/28/04	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 1	< 2	--
	01/25/05	GWM	< 2	< 2	< 2	< 2	11	< 1	< 2	110	< 2	--
	04/26/05	GWM	< 2	< 2	< 2	< 2	15	< 1	< 2	98	< 2	--
	04/26/05	GWM	< 2	< 2	< 2	< 2	15	< 1	< 2	96	< 2	--
	04/12/06	GWM	--	< 2	< 2	< 2	--	< 1	< 2	48	< 2	--
	10/11/06	GWM	--	--	--	--	--	< 1	--	62	--	--
	04/26/07	GWM	--	< 5	< 5	< 5	--	< 5	< 5	47	< 5	--
	03/20/08	PDI	< 0.8	< 1	< 0.8	< 1	2 J	< 0.8	< 0.8	21	< 1	--
	03/20/08*	GWM	< 1	< 1	< 0.9	< 1	2 J	< 1	< 1	17	< 2	--
	06/17/08	PDI	1 J	< 1	0.8 J	< 1	9	< 0.8	< 0.8	98	< 1	--
	08/04/09	GWM	--	< 1	< 0.9	< 1	--	< 1	< 1	19	< 2	--
	03/02/10	GWM	--	< 1	< 0.9	< 1	--	< 1	< 1	4 J	< 2	--
	08/05/10	GWM	--	< 1	< 0.9	< 1	--	< 1	< 1	34	< 2	--
	08/11/10	MNA	< 0.8	< 1	< 0.8	< 1	7	< 0.8	< 0.8	30	< 1	--
	11/18/10	MNA	< 0.8	< 1	< 0.8	< 1	9	< 0.8	< 0.8	38	< 1	<0.010
	02/16/11	GWM	--	--	--	--	--	< 1	--	14	--	--
	02/16/11	MNA	< 0.8	< 1	< 0.8	< 1	2 J	< 0.8	< 0.8	15	< 1	<0.010
	05/05/11	MNA	< 0.8	< 1	< 0.8	< 1	2 J	< 0.8	< 0.8	29	< 1	0.073
	08/23/11	MNA/GWM	< 0.8	< 1	< 0.8	< 1	7	< 0.8	< 0.8	28	< 1	0.073
	11/09/11	MNA	< 0.8	< 1	< 0.8	< 1	9	< 0.8	< 0.8	68	< 1	0.073
	02/15/12	MNA	< 0.8	< 1	< 0.8	< 1	12	< 0.8	< 0.8	68	< 1	0.090
	02/16/12	GWM	--	--	--	--	--	< 1	--	67	--	--
	05/03/12	MNA	< 0.8	< 1	< 0.8	< 1	5	< 0.8	< 0.8	26	< 1	< 0.01
	08/21/12	MNA	< 0.8	< 1	< 0.8	< 1	3 J	< 0.8	< 0.8	14	< 1	< 0.010
	11/19/12	MNA	< 0.8	< 1	< 0.8	< 1	12	< 0.8	< 0.8	47	< 1	0.11
	02/07/13	MNA	< 0.8	< 1	< 0.8	< 1	5 J	< 0.8	< 0.8	42	< 1	0.041 J
	05/09/13	MNA	< 0.8	< 1	< 0.8	< 1	12	< 0.8	< 0.8	59	< 1	0.023 J
	08/14/13	MNA	< 0.8	< 1	< 0.8	< 1	7	< 0.8	< 0.8	41	< 1	< 0.010

Table 2
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Former BAE Facility
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Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
W-3 (12-23')	02/04/80	GWM	--	--	--	--	--	--	--	7.1	--	--
	04/07/81	GWM	--	--	--	--	--	--	--	0.7	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	< 0.1	--	--
	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	0.9	--	--
	05/17/83	CH2M-HILL	--	--	--	--	--	--	--	1.1	--	--
	05/02/86	CH2M-HILL	--	--	--	--	--	--	--	1	--	--
	06/10/86	GWM	--	--	--	--	--	--	--	2.2	--	--
	03/15/87	GWM	--	--	--	--	--	--	--	ND	--	--
	09/01/87	CH2M-HILL	--	--	--	--	--	< 1	--	--	--	--
	09/15/87	GWM	--	--	--	--	--	--	--	9.6	--	--
	03/01/88	CH2M-HILL	--	--	--	--	--	< 1	--	--	--	--
	03/15/88	GWM	--	--	--	--	--	--	--	1.05	--	--
	09/15/88	GWM	--	--	--	--	--	--	--	2	--	--
	03/01/89	GWM	--	--	--	--	--	--	--	ND	--	--
	10/16/89	GWM	--	--	--	--	--	ND	--	ND	--	--
	04/01/98	GWM	ND	2 J	ND	ND	--	ND	--	4 B	--	--
	08/01/98	GWM	ND	83 J	ND	ND	--	ND	--	120 J	--	--
	11/13/01	GWM	< 10	2.4	< 10	< 10	--	< 10	< 10	5.3	--	--
	04/16/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	8.3	--	--
	04/19/02	GWM	--	--	--	--	--	--	--	0.9	--	--
	11/21/02	GWM	< 1	< 1	3.2	< 1	--	< 1	< 1	9.6	--	--
	01/07/05	GWM	< 2	< 2	< 2	< 2	2.8	< 5	< 2	< 1	--	--
Duplicate	01/25/05	GWM	< 2	3.2	< 2	< 2	31	< 1	< 2	6.5	--	--
	01/25/05	GWM	< 2	3	< 2	< 2	30	< 1	< 2	6.3	--	--
	04/25/05	GWM	< 2	4.2	< 2	< 2	40	< 1	2.2	8.5	--	--
Duplicate	04/25/05	GWM	< 2	4.3	< 2	< 2	39	< 1	< 2	8.2	--	--
	08/16/10	MNA	< 0.8	4 J	1 J	< 1	51	< 0.8	1 J	17	--	--
	11/19/10	MNA	< 0.8	< 1	< 0.8	< 1	4 J	< 0.8	< 0.8	1 J	--	--
	02/16/11	MNA	< 0.8	4 J	1 J	< 1	49	< 0.8	< 0.8	14	--	--
	05/05/11	MNA	< 0.8	3 J	1 J	< 1	42	< 0.8	< 0.8	13	--	--
	08/19/11	MNA	< 0.8	3 J	1 J	< 1	45	< 0.8	< 0.8	11	--	--
	11/10/11	MNA	< 0.8	3 J	1 J	< 1	44	< 0.8	< 0.8	11	--	--
	02/16/12	MNA	< 0.8	3 J	1 J	< 1	37	< 0.8	< 0.8	7	--	--
	05/04/12	MNA	< 0.8	3 J	< 0.8	< 1	34	< 0.8	< 0.8	7	--	--
	08/20/12	MNA	< 0.8	3 J	1 J	< 1	43	< 0.8	< 0.8	11	--	--
	11/17/12	MNA	< 0.8	3 J	0.9 J	< 1	40	< 0.8	< 0.8	11	--	--
	02/06/13	MNA	< 0.8	3 J	1 J	< 1	43	< 0.8	< 0.8	11	< 1	--
	05/08/13	MNA	< 0.8	4 J	1 J	< 1	44	< 0.8	< 0.8	10	< 1	--
	08/09/13	MNA	< 0.8	3 J	1 J	< 1	47	< 0.8	< 0.8	14	< 1	--
W-4 (16-30')	01/24/80	GWM	--	--	--	--	--	--	--	29.1	--	--
	02/04/80	GWM	--	--	--	--	--	--	--	5.6	--	--
	11/13/80	CH2M-HILL	--	--	--	--	--	--	--	3.4	--	--

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			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
W-4 cont'd)	12/05/80	GWM	--	--	--	--	--	--	--	1	--	--
(16-30')	04/07/81	GWM	--	--	--	--	--	--	--	47.2	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	29.6	--	--
	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	230	--	--
	03/19/86	CH2M-HILL	--	--	--	--	--	--	--	495	--	--
SS	05/02/86	CH2M-HILL	--	--	--	--	--	--	--	658	--	--
	05/02/86	CH2M-HILL	--	--	--	--	--	--	--	610	--	--
	06/10/86	GWM	--	--	--	--	--	--	--	235	--	--
	03/15/87	GWM	--	--	--	--	--	--	--	596	--	--
	09/01/87	CH2M-HILL	--	--	--	--	--	< 1	--	--	--	--
	09/15/87	GWM	--	--	--	--	--	--	--	240	--	--
	03/15/88	GWM	--	--	--	--	--	--	--	1,545	--	--
	03/21/88	CH2M-HILL	--	--	--	--	--	1.2	--	--	--	--
	09/15/88	GWM	--	--	--	--	--	--	--	1,500	--	--
	03/01/89	GWM	--	--	--	--	--	--	--	1,600	--	--
	10/16/89	GWM	--	--	--	--	--	0.5	--	1,430	--	--
	08/05/94	GWM	ND	ND	ND	ND	--	ND	ND	490	--	--
	03/16/95	GWM	2	ND	ND	ND	31.7	ND	ND	1,340	--	--
	05/16/95	GWM	1.7	< 1	< 1	< 1	36	< 1	< 1	1,520	--	--
	08/21/95	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	1,200	--	--
	04/01/98	GWM	ND	ND	ND	ND	--	ND	--	1,900	--	--
Duplicate	04/01/98	GWM	ND	ND	ND	ND	--	ND	--	120	--	--
	08/01/98	GWM	ND	ND	ND	ND	--	ND	--	1,200	--	--
	10/06/99	GWM	1.4	< 10	< 10	ND	--	1.1	< 10	1,370	--	--
	11/13/01	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	640	--	--
	04/11/02	GWM	3.2	< 1	< 1	< 1	--	< 1	< 1	719	--	--
	11/26/02	GWM	< 1	< 1	1.7	< 1	--	< 1	< 1	1,600	--	--
	05/05/03	GWM	1.2	< 1	< 1	< 1	--	1.2	2.9	1,390	--	--
	01/07/05	GWM	< 2	< 2	< 2	< 2	61	< 5	< 2	950	--	--
	08/13/10	MNA	< 0.8	< 1	< 0.8	< 1	52	< 0.8	< 0.8	500	--	--
	11/17/10	MNA	< 0.8	< 1	< 0.8	< 1	10	< 0.8	< 0.8	140	--	--
	02/16/11	MNA	< 0.8	< 1	< 0.8	< 1	100	< 0.8	< 0.8	820	--	--
	05/05/11	MNA	< 0.8	< 1	< 0.8	< 1	87	< 0.8	0.8 J	700	--	--
	08/16/11	MNA	< 0.8	< 1	< 0.8	< 1	65	< 0.8	1 J	540	--	--
	11/10/11	MNA	< 0.8	< 1	< 0.8	< 1	80	< 0.8	< 0.8	560	--	--
	02/17/12	MNA	< 0.8	< 1	< 0.8	< 1	73	< 0.8	< 0.8	610	--	--
	05/04/12	MNA	< 0.8	< 1	< 0.8	< 1	56	< 0.8	< 0.8	510	--	--
	08/20/12	MNA	< 0.8	< 1	< 0.8	< 1	47	< 0.8	< 0.8	410	--	--
	11/20/12	MNA	< 0.8	< 1	< 0.8	< 1	60	< 0.8	< 0.8	490	--	--
	02/07/13	MNA	< 0.8	< 1	< 0.8	< 1	74	< 0.8	< 0.8	610	< 1	--
	05/10/13	MNA	< 0.8	< 1	< 0.8	< 1	79	< 0.8	< 0.8	660	< 1	--
	08/13/13	MNA	< 0.8	< 1	< 0.8	< 1	65	< 0.8	< 0.8	580	< 1	--
W-8	01/24/80	GWM	--	--	--	--	--	--	--	31.9	--	--
(15-30')	02/04/80	GWM	--	--	--	--	--	--	--	5.2	--	--
	12/05/80	GWM	--	--	--	--	--	--	--	< 10.1	--	--

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			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
W-8 cont'd (15-30')	04/07/81	GWM	--	--	--	--	--	--	--	< 10.1	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	< 10.1	--	--
	11/13/81	GWM	--	--	--	--	--	--	--	0.1	--	--
	04/19/82	GWM	--	--	--	--	--	--	--	1.7	--	--
	05/17/83	GWM	--	--	--	--	--	--	--	4.5	--	--
	08/21/95	GWM	< 5	< 5	< 5	< 5	--	< 5	< 5	14	--	--
	04/01/98	GWM	< 10	< 10	< 10	< 10	--	< 10	--	61	--	--
	08/01/98	GWM	< 10	< 10	< 10	< 10	--	< 10	--	87	--	--
	10/06/99	GWM	< 10	< 10	< 10	< 20	--	< 10	< 10	99	--	--
	11/13/01	GWM	< 10	< 10	< 10	< 10	--	< 10	< 10	24	--	--
	04/18/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	42	--	--
	11/25/02	GWM	< 1	< 1	1.7	< 1	--	< 1	< 1	119	--	--
	05/05/03	GWM	< 10	< 10	< 10	< 10	--	< 10	< 10	133	--	--
	May 2003	GWM	--	--	--	--	7 J	--	--	130	--	--
	01/07/05	GWM	< 2	< 2	< 2	< 2	< 2	< 5	< 2	12	--	--
	11/17/10	MNA	< 10.8	< 1	< 10.8	< 1	< 10.8	< 10.8	< 10.8	8	--	--
	02/17/12	MNA	< 0.8	< 1	< 0.8	< 1	1 J	< 0.8	< 0.8	14	--	--
	08/20/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	11	--	--
	11/28/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	8	< 1	--
	02/06/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	8	< 1	--
	05/09/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	6	< 1	--
	08/09/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	8	< 1	--
W-9 (13-45')	01/24/80	GWM	--	--	--	--	--	--	--	384	--	--
	02/04/80	GWM	--	--	--	--	--	--	--	6.6	--	--
	12/05/80	GWM	--	--	--	--	--	--	--	2.9	--	--
	04/07/81	GWM	--	--	--	--	--	--	--	1.2	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	1.4	--	--
	11/13/81	GWM	--	--	--	--	--	--	--	1.5	--	--
	04/19/82	GWM	--	--	--	--	--	--	--	0.5	--	--
	05/17/83	GWM	--	--	--	--	--	--	--	1	--	--
	08/05/94	GWM	< 10	< 10	< 10	< 10	--	< 10	< 10	1.3	--	--
	04/01/98	GWM	2 J	< 10	2 J	< 10	--	< 10	--	2 B	--	--
	07/01/98	GWM	< 10	< 10	< 10	< 10	--	< 10	--	< 10	--	--
	10/06/99	GWM	1.4	< 10	2	< 20	--	< 10	< 10	2.5	--	--
	11/13/01	GWM	1.2	< 10	2.1	< 10	--	< 10	< 10	2.1	--	--
	04/16/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	--	--
	11/21/02	GWM	< 1	< 1	1.7	< 1	--	< 1	< 1	2.3	--	--
	01/07/05	GWM	< 2	< 2	< 2	< 2	< 2	< 5	< 2	< 1	--	--
	01/25/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 1	--	--
	04/25/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 1	--	--
W-10 (7-47')	02/04/80	GWM	--	--	--	--	--	--	--	23	--	--
	05/12/80	CH2M-HILL	--	--	--	--	--	--	--	< 0.1	--	--
	12/05/80	GWM	--	--	--	--	--	--	--	< 0.1	--	--
	04/07/81	GWM	--	--	--	--	--	--	--	0.2	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	< 0.1	--	--

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			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
W-10 (cont'd) (7-47')	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	1.4	--	--
	05/17/83	CH2M-HILL	--	--	--	--	--	--	--	0.3	--	--
	03/19/86	CH2M-HILL	--	--	--	--	--	--	--	< 1	--	--
	05/01/86	CH2M-HILL	--	--	--	--	--	--	--	< 1	--	--
	06/10/86	GWM	--	--	--	--	--	--	--	1	--	--
	03/15/87	GWM	--	--	--	--	--	--	--	< 1	--	--
	09/15/87	GWM	--	--	--	--	--	--	--	0.6	--	--
	03/01/88	CH2M-HILL	--	--	--	--	--	--	--	< 0.1	--	--
	03/15/88	GWM	--	--	--	--	--	--	--	< 1	--	--
	09/15/88	GWM	--	--	--	--	--	--	--	< 1	--	--
	03/01/89	GWM	--	--	--	--	--	--	--	< 1	--	--
	05/16/95	GWM	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	--	--
	04/01/98	EPA RI/FS	ND	ND	ND	ND	--	ND	--	ND	--	--
	07/01/98	EPA RI/FS	ND	ND	ND	ND	--	ND	--	ND	--	--
	11/19/01	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	--	--
	09/30/04	GWM	< 2	< 2	< 2	< 2	--	< 1	< 2	< 1	--	--
	01/25/05	GWM	< 2	< 2	< 2	< 2	--	< 1	< 2	< 1	--	--
	04/27/05	GWM	< 2	< 2	< 2	< 2	--	< 1	< 2	< 1	--	--
	03/18/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	06/16/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	08/10/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	11/16/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	02/08/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	05/03/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	08/17/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	11/08/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	02/14/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	05/02/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	08/15/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	11/16/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	02/05/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	05/07/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/07/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
W-12 (7-40')	02/04/80	GWM	--	--	--	--	--	--	--	437	--	--
	12/05/80	GWM	--	--	--	--	--	--	--	2.3	--	--
	04/07/81	GWM	--	--	--	--	--	--	--	0.3	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	< 0.1	--	--
	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	0.7	--	--
	05/17/83	CH2M-HILL	--	--	--	--	--	--	--	< 0.1	--	--
	03/19/86	CH2M-HILL	--	--	--	--	--	--	--	< 1	--	--
	05/01/86	CH2M-HILL	--	--	--	--	--	--	--	< 1	--	--
	06/10/86	GWM	--	--	--	--	--	--	--	< 1	--	--
	03/15/87	GWM	--	--	--	--	--	--	--	< 1	--	--
	09/01/87	CH2M-HILL	--	--	--	--	--	< 1	--	--	--	--
	09/15/87	GWM	--	--	--	--	--	--	--	0.6	--	--

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Lansdale, Pennsylvania

Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
W-12 (cont'd) (7-40')	03/15/88	GWM	--	--	--	--	--	--	--	< 1	--	--
	09/15/88	GWM	--	--	--	--	--	--	--	< 1	--	--
	03/01/89	GWM	--	--	--	--	--	--	--	< 1	--	--
	10/16/89	GWM	--	--	--	--	--	ND	--	ND	--	--
	11/08/95	GWM	1	1	1	1	1	< 0.7	1	< 1	--	--
	04/01/98	EPA RI/FS	1 J	< 10	< 10	< 10	--	< 10	--	< 10	--	--
	07/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	< 10	--	< 10	--	--
	11/19/01	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	--	--
	11/27/02	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	1.6	--	--
	09/30/04	GWM	< 2	< 2	< 2	< 2	--	< 1	< 2	< 1	--	--
	01/25/05	GWM	< 2	< 2	< 2	< 2	--	< 1	< 2	< 1	--	--
	04/27/05	GWM	< 2	< 2	< 2	< 2	--	< 1	< 2	< 1	--	--
	03/18/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	06/16/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	08/10/10	MNA	0.9 J	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	11/16/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	02/08/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	05/03/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	08/17/11	MNA	1 J	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	11/08/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	02/14/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	05/02/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	08/15/12	MNA	1 J	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	11/16/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	02/05/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	05/07/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
	08/07/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
W-13 (10-44')	02/04/80	GWM	--	--	--	--	--	--	--	30.7	--	--
	12/05/80	GWM	--	--	--	--	--	--	--	6.1	--	--
	04/07/81	GWM	--	--	--	--	--	--	--	1.9	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	< 0.1	--	--
	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	16	--	--
	04/20/82	CH2M-HILL	1.8	--	< 0.5	< 0.5	< 0.5	< 0.5	--	1.2	--	--
SS	04/20/82	CH2M-HILL	7.9	--	0.9	< 0.5	0.5	< 0.5	--	3.1	--	--
	05/17/83	CH2M-HILL	--	--	--	--	--	--	--	2.3	--	--
	03/19/86	CH2M-HILL	--	--	--	--	--	--	--	< 1	--	--
	05/01/86	CH2M-HILL	--	--	--	--	--	--	--	2.8	--	--
	07/28/86	CH2M-HILL	--	--	--	--	--	--	--	1	--	--
	09/01/87	CH2M-HILL	--	--	--	--	--	0.05	--	--	--	--
	09/15/87	GWM	--	--	--	--	--	--	--	1	--	--
	03/01/88	CH2M-HILL	--	--	--	--	--	< 1	--	--	--	--
	03/15/88	GWM	--	--	--	--	--	--	--	5.3	--	--
	09/15/88	GWM	--	--	--	--	--	--	--	5	--	--
	03/01/89	GWM	--	--	--	--	--	--	--	5.4	--	--
	10/16/89	GWM	--	--	--	--	--	ND	--	4.6	--	--

Table 2
Summary of Groundwater Volatile Organic Compounds (VOCs) Analyses
Former BAE Facility
Lansdale, Pennsylvania

Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
W-13 (cont'd) (10-44')	04/01/98	EPA RI/FS	2 J	< 10	< 10	< 10	--	< 10	--	1 J	--	--
	07/01/98	EPA RI/FS	2 J	< 10	< 10	< 10	--	< 10	--	2 B	--	--
	11/17/01	GWM	2	< 1	< 1	< 1	--	< 1	< 1	< 1	--	--
	04/17/02	GWM	1.9	< 1	< 1	< 1	--	< 1	< 1	1.2	--	--
	06/19/08	PDI	2 J	< 1	1 J	< 1	< 0.8	< 0.8	< 0.8	1 J	--	--
	08/10/10	MNA	1 J	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	11/16/10	MNA	1 J	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	08/16/11	MNA	2 J	< 1	1 J	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	08/15/12	MNA	2 J	< 1	1 J	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	08/07/13	MNA	2 J	< 1	1 J	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	--
W-14 (6-36')	02/04/80	GWM	--	--	--	--	--	--	--	325	--	--
	04/07/81	CH2M-HILL	--	--	--	--	--	--	--	< 0.1	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	< 0.1	--	--
	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	< 0.1	--	--
	05/17/83	CH2M-HILL	--	--	--	--	--	--	--	< 0.1	--	--
	04/01/98	EPA RI/FS	15	< 10	4 J	< 10	--	< 10	--	6 B	--	--
	07/01/98	EPA RI/FS	27	< 10	8 J	< 10	--	< 10	--	9 B	--	--
	11/14/01	GWM	16	< 1	11	< 1	< 1	1	< 1	6.6	--	--
	11/21/02	GWM	36	< 1	6.8	< 1	< 1	< 1	< 1	17	--	--
	09/30/04	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 1	--	--
Duplicate	09/30/04	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 1	--	--
	01/25/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 1	--	--
	04/27/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 1	--	--
	03/18/08	PDI	7	< 1	4 J	< 1	< 0.8	< 0.8	< 0.8	5	--	--
Duplicate	03/18/08	PDI	7	< 1	4 J	< 1	< 0.8	< 0.8	< 0.8	6	--	--
	06/16/08	PDI	7	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	5 J	--	--
	08/10/10	MNA	9	< 1	7	< 1	< 0.8	< 0.8	< 0.8	6	--	--
	11/17/10	MNA	0.8 J	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	02/08/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	05/03/11	MNA	2 J	< 1	2 J	< 1	< 0.8	< 0.8	< 0.8	2 J	--	--
	08/17/11	MNA	11	< 1	10	< 1	< 0.8	< 0.8	< 0.8	7	--	--
	11/08/11	MNA	5 J	< 1	5	< 1	< 0.8	< 0.8	< 0.8	4 J	--	--
	02/14/12	MNA	5	< 1	4 J	< 1	< 0.8	< 0.8	< 0.8	4 J	--	--
	05/02/12	MNA	9	< 1	3 J	< 1	< 0.8	< 0.8	< 0.8	6	--	--
	08/15/12	MNA	15	< 1	13	< 1	< 0.8	< 0.8	< 0.8	9	--	--
	11/16/12	MNA	11	< 1	10	< 1	< 0.8	< 0.8	< 0.8	8	--	--
	02/05/13	MNA	< 0.8	< 1	0.9 J	< 1	< 0.8	< 0.8	< 0.8	1 J	< 1	--
	05/07/13	MNA	3 J	< 1	3 J	< 1	< 0.8	< 0.8	< 0.8	3 J	< 1	--
	08/08/13	MNA	15	< 1	11	< 1	< 0.8	< 0.8	< 0.8	8	< 1	--
Duplicate	08/08/13	MNA	15	< 1	11	< 1	< 0.8	< 0.8	< 0.8	8	< 1	--
W-16 (9-47')	02/04/80	GWM	--	--	--	--	--	--	--	9.6	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	< 0.1	--	--
	04/19/82	CH2M-HILL	--	--	--	--	--	--	--	29	--	--
	05/17/83	CH2M-HILL	--	--	--	--	--	--	--	6.7	--	--
	11/09/94	GWM	--	--	--	--	--	--	--	1.2	--	--

Table 2
Summary of Groundwater Volatile Organic Compounds (VOCs) Analyses
Former BAE Facility
Lansdale, Pennsylvania

Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
W-16 (cont'd) (9-47')	04/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	1 J	--	< 1	--	--
	07/01/98	EPA RI/FS	< 10	< 10	< 10	< 10	--	< 10	--	< 1	--	--
	11/09/01	GWM	< 1	< 1	< 1	< 1	--	< 1	< 1	< 1	--	--
	01/25/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 1	--	--
	04/25/05	GWM	< 2	< 2	< 2	< 2	< 2	< 1	< 2	< 1	--	--
	03/18/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	06/18/08	PDI	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	08/10/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	--
	11/18/10	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	<0.010
	02/15/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	<0.010
	05/04/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	<0.010
	08/23/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	< 0.010
	11/10/11	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	< 0.010
	02/15/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	< 0.010
	05/03/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	< 0.010
	08/21/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	< 0.010
	11/16/12	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	--	< 0.010
	02/05/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	< 0.010
	05/07/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	< 0.010
	08/14/13	MNA	< 0.8	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	< 1	< 1	< 0.010
W-17 (6-44')	02/04/80	GWM	--	--	--	--	--	--	--	21.4	--	--
	12/05/80	GWM	--	--	--	--	--	--	--	4.9	--	--
	04/07/81	GWM	--	--	--	--	--	--	--	0.4	--	--
	05/08/81	GWM	--	--	--	--	--	--	--	< 0.1	--	--
	11/08/95	GWM	1	1	1	1	1	< 1	1	< 0.7	--	--
	04/01/98	EPA RI/FS	7 J	< 10	< 10	< 10	--	< 10	--	4 J	--	--
	07/01/98	EPA RI/FS	10 J	< 10	< 10	< 10	--	< 10	--	5 B	--	--
	11/17/01	GWM	8.3	< 1	2.3	< 1	--	< 1	< 1	4.5	--	--
	04/11/02	GWM	8	< 1	2.2	< 1	--	< 1	< 1	4.3	--	--
	01/25/05	GWM	< 2	< 2	< 2	< 2	< 2	1.5	< 2	1.6	--	--
	04/25/05	GWM	8.6	< 2	2.7	< 2	< 2	< 2	< 2	4.6	--	--

Table 2
Summary of Groundwater Volatile Organic Compounds (VOCs) Analyses
Former BAE Facility
Lansdale, Pennsylvania

Location ID (screen/open interval, ft.)º	Sample Date	Sample Task	Analytes (µg/L)									
			1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride[1]	
W-17 (cont'd) (6-44')	06/19/08	PDI	6	< 1	2 J	< 1	< 0.8	< 0.8	< 0.8	4 J	--	--
	08/10/10	MNA	4 J	< 1	2 J	< 1	< 0.8	< 0.8	< 0.8	3 J	--	--
	11/16/10	MNA	3 J	< 1	< 0.8	< 1	< 0.8	< 0.8	< 0.8	2 J	--	--
	08/16/11	MNA	5 J	< 1	2 J	< 1	< 0.8	< 0.8	< 0.8	3 J	--	--
	08/15/12	MNA	6	< 1	3 J	< 1	< 0.8	< 0.8	< 0.8	4 J	--	--
	08/07/13	MNA	8	< 1	4 J	< 1	< 0.8	< 0.8	< 0.8	4 J	< 1	--

Notes:
1,1,1-TCA = 1,1,1-Trichloroethane
1,1-DCA = 1,1-Dichloroethane
1,1-DCE = 1,1-Dichloroethene
1,2-DCA = 1,2-Dichloroethane
cis-1,2-DCE = cis-1,2-Dichloroethene
PCE = Tetrachloroethene
trans-1,2-DCE = trans-1,2-Dichloroethene
TCE = Trichloroethene
< = indicates analyte not detected at or above specified laboratory detection limit
-- = not analyzed
+ = Results reported from dilution analysis
B = detected analyte in blank sample
Duplicate = Field duplicate
J = estimated value
ND = Non-detect
L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.
CH2M-HILL = CH2M HILL, 1990 RI/FS Workplan. Note, data reported by CH2M Hill for wells A-6 & A-7 in 1979 are not included since these wells were not installed until 1980.
EPA RI/FS = Tetra Tech/Black & Veatch, July 2002, Remedial Investigation and Feasibility Study
GWM = Groundwater Monitoring Sampling Event (Various sources including NPDES sampling)
PDI = Pre Design Investigation Sampling (Analytical Method SW8260B)
MNA = Monitored Natural Attenuation Pilot Test Sampling Event (Analytical Method SW8260B)
* = Analytical Method E624
** = Recovery well converted to pumping well in April 1986; RI-20S and RW-1 converted to pumping wells in December 2004
‡ = "Retesting indicates that this result is inaccurate and is attributed to analytical error." (Table 5, Progress Report Investigation of Trichloroethylene In Groundwater For American Electronics Laboratories, July 29, 1980, BCM)
[1] = Data in second (right) column was determined by Analytical Method SW8260B SIM.
[2] = Reported by CH2M Hill as an Anomoly ID, each with undefined qualifer/flag "D"
[4] = These measurements are considered to be anomalies.
º = Screen/open well intervals were generated from the following sources: Synergy Environmental Inc. Feb 4, 2005 letter, which references EarthTech, 1993 and 2003 RIR Supplement II
INF* = Influent to the air stripper that includes Recovery Well, RI-20S and RW-1
† = Indicates the potential for matric effect. Qualifier added during data validation review. Refer to report for details.
α Due to sample labeling discrepancy, PW-02 33'-60', taken after purge, and PW-02α 33'-60', taken as an early grab, are identified based on available field information; however, identities cannot be verified
SS = Second Sample
TS = Third Sample
Note: Sample dates with multiple results and different sources are labeled SS for second sample and TS for third sample
^ = Split Sample, analyzed by Zymax Forensics Laboratory.
P&T shut down August 16, 2010
Pre- shut down samples 8/9 & 8/13, 2010
All samples after should be MNA except for semi-annual NPDES Samples from A-3, A-12, A-13, A-14, W-1 and RW-1

Table 3
MNA Pilot Study
Field Parameters
Former BAE Facility
Lansdale, Pennsylvania

			Field Parameters						
			pH	**Downhole Temp**	**Conductivity**	**Turbidity**	**Downhole DO**	**Ferrous Iron[3]**	**ORP**
Location ID	**Date**	**Time**	pH Units	deg C	mS/cm	NTU	mg/L	mg/L	mV
A-2	08/13/13	11:04	7.49	18.3	0.148	45	1.01	0.54	272
A-3	08/09/10	0:00	--	--	--	--	0.03	--	--
(0-11')	11/16/10	13:50	6.56	15.80	0.072	--	4.70	--	691.3
	02/07/11	0:00	--	6.60	--	--	10.31 [2]	--	--
	05/02/11	0:00	--	13.10	--	--	1.48	--	--
	08/17/11	15:40	7.01	18.78	0.142	7.4	0.47	0.0	132
	11/07/11	12:00	--	15.19	--	--	6.68	--	--
	02/16/12	11:40	4.24	8.75	70	10.0	8.55	0.0	150
	05/01/12	12:00	--	12.59	--	--	1.11	--	--
	08/22/12	10:42	7.42	16.80	0.110	3.4	0.24	2.12	52
	11/15/12	12:00	--	14.9	--	--	5.03	--	--
	02/04/13	12:00	--	9.20	--	--	6.90	--	--
	05/06/13	12:00	--	16.40	--	--	4.73	--	--
	08/08/13	9:33	6.84	20.40	0.101	0.0	0.17	0.0	172
A-4	11/16/10	15:00	7.13	15.10	0.272	--	10.84 [2]	0.0	381.9
(0-10')	05/02/11	0:00	--	12.20	--	--	2.65	--	--
	08/22/11	11:35	6.94	17.49	0.343	5.3	1.76	0.0	60
	11/07/11	12:00	--	16.02	--	--	4.41	--	--
	02/13/12	12:00	--	10.19	--	--	7.84	--	--
	05/01/12	12:00	--	11.86	--	--	4.83	--	--
	08/22/12	11:04	7.17	17.40	0.400	0.0	0.26	0.40	18
	11/15/12	12:00	--	15.3	--	--	2.79	--	--
	02/04/13	12:00	--	9.90	--	--	5.10	--	--
	05/06/13	12:00	--	11.10	--	--	0.84	--	--
	08/08/13	13:15	6.87	17.70	0.313	0.0	0.14	1.29	-65
A-5	11/16/10	15:30	6.24	17.40	0.408	--	2.06	0.0	67.2
(0-12')	05/02/11	0:00	--	12.50	--	--	0.64	--	--
	08/22/11	12:00	6.12	16.15	1.43	6.8	1.30	4.0	4
	11/07/11	12:00	--	17.11	--	--	3.28	--	--
	02/13/11	12:00	--	12.84	--	--	2.82	--	--
	05/01/12	12:00	--	12.83	--	--	2.96	--	--
	08/22/12	11:38	6.44	16.80	0.211	8.8	0.84	0.76	89
	11/15/12	12:00	--	17.3	--	--	2.02	--	--
	02/04/13	12:00	--	12.40	--	--	4.95	--	--
	05/06/13	12:00	--	11.70	--	--	3.23	--	--
	08/08/13	13:43	6.10	16.10	0.403	0.0	2.05	0.14	89
A-6	11/16/10	15:55	6.54	17.30	0.644	--	4.25	0.0	101.2
(0-12')	05/02/11	0:00	--	11.50	--	--	1.01	--	--
	08/22/11	12:20	6.64	15.64	1.37	13.3	5.57	1.0	130
	11/07/11	12:00	--	17.14	--	--	3.17	--	--
	02/13/11	12:00	--	11.69	--	--	4.13	--	--
	05/01/12	12:00	--	11.69	--	--	6.43	--	--
	08/22/12	11:59	6.66	16.60	1.20	0.0	3.51	0.50	115
	11/15/12	12:00	--	17.2	--	--	4.35	--	--
	02/04/13	12:00	--	10.96	--	--	7.54	--	--
	05/06/13	12:00	--	10.50	--	--	4.26	--	--
	08/08/13	14:10	6.27	17.10	1.17	10.0	4.36	0.00	94

Table 3
MNA Pilot Study
Field Parameters
Former BAE Facility
Lansdale, Pennsylvania

Location ID	Date	Time	Field Parameters						
			pH	Downhole Temp	Conductivity	Turbidity	Downhole DO	Ferrous Iron[3]	ORP
			pH Units	deg C	mS/cm	NTU	mg/L	mg/L	mV
A-7	11/16/10	16:15	6.78	15.40	0.678	--	0.63	0.0	133.3
(0-21')	05/02/11	0:00	--	11.40	--	--	0.39	--	--
	08/22/11	12:40	6.80	18.97	0.682	64.3	2.41	9.0	132
	11/07/11	12:00	--	16.65	--	--	1.88	--	--
	02/13/11	12:00	--	10.89	--	--	2.82	--	--
	05/01/12	12:00	--	11.35	--	--	5.18	--	--
	08/22/12	12:25	6.87	18.50	1.58	111	0.49	1.86	111
	11/15/12	12:00	--	17.0	--	--	3.19	--	--
	02/04/13	12:00	--	11.80	--	--	4.30	--	--
	05/06/13	12:00	--	10.70	--	--	1.89	--	--
	08/08/13	14:33	6.71	19.4	1.57	98.0	0.23	1.70	-47
A-8	05/02/11	0:00	--	13.70	--	--	3.21	--	--
(0-12')	08/22/11	13:00	7.88	20.81	1.04	22.6	6.91	3.0	161
	11/07/11	12:00	--	18.67	--	--	7.77	--	--
	02/13/11	12:00	--	13.30	--	--	7.47	--	--
	05/01/12	12:00	--	13.88	--	--	8.37	--	--
	08/22/12	15:09	7.92	21.50	1.32	5.1	5.00	0.74	34
	11/15/12	12:00	Dry						
	02/04/13	12:00	--	13.6	--	--	5.35	--	--
	05/06/13	12:00	--	12.9	--	--	4.69	--	--
	08/13/13	9:58	8.08	20.8	0.444	76.2	4.38	1.07	212
A-9	05/02/11	0:00	--	12.90	--	--	2.98	--	--
(0-13')	08/22/11	13:15	7.09	19.64	1.92	6.9	5.20	3.0	206
	11/07/11	12:00	--	19.01	--	--	5.36	--	--
	02/13/11	12:00	--	13.40	--	--	8.92	--	--
	05/01/12	12:00	--	13.50	--	--	7.11	--	--
	08/22/12	15:34	7.21	20.20	1.73	0.0	2.45	0.80	79
	11/15/12	12:00	Dry						
	02/04/13	12:00	--	12.70	--	--	5.54	--	--
	05/06/13	12:00	--	12.5	--	--	0.38	--	--
	08/13/13	10:24	7.40	19.40	0.272	35.5	2.05	0.55	256
A-11	08/12/10	10:38	5.99	13.96	1.356	118.3	1.30	0.4	181.9
(0-22')	11/17/10	7:50	5.28	14.00	2.019	98.71	0.11	0.0	1301.5
	02/07/11	0:00	--	11.10	--	--	8.35[2]	--	--
	05/02/11	0:00	--	11.80	--	--	1.32	--	--
	08/22/11	10:15	6.45	11.65	2.58	58.9	1.01	5.0	156
	11/07/11	12:00	--	13.32	--	--	2.80	--	--
	02/13/12	12:00	--	12.70	--	--	1.36	--	--
	05/01/12	12:00	--	11.65	--	--	3.26	--	--
	08/22/12	14:41	6.60	12.60	2.48	24.6	0.30	1.32	56
	11/15/12	12:00	--	13.7	--	--	0.06	--	--
	02/04/13	12:00	--	12.0	--	--	7.06	--	--
	05/06/13	12:00	--	11.0	--	--	2.81	--	--
	08/08/13	12:48	6.63	12.80	2.08	0.0	0.10	0.70	70

Table 3
MNA Pilot Study
Field Parameters
Former BAE Facility
Lansdale, Pennsylvania

Location ID	Date	Time	Field Parameters						
			pH	Downhole Temp	Conductivity	Turbidity	Downhole DO	Ferrous Iron[3]	ORP
			pH Units	deg C	mS/cm	NTU	mg/L	mg/L	mV
A-12	08/12/10	9:30	5.72	13.59	1.517	101.5	0.41	0.8	92.7
(0-24')	11/17/10	8:15	5.43	14.80	1.488	135.7	0.65	0.0	1351.2
	02/07/11	0:00	--	11.80	--	--	9.35 [2]	--	--
	05/02/11	0:00	--	12.20	--	--	4.15	--	--
	08/22/11	9:55	6.25	11.83	2.33	190	2.33	5.0	380
	11/07/11	12:00	--	13.09	--	--	5.67	--	--
	02/16/12	12:55	9.61	13.22	405	47.1	8.39	--	-81
	05/01/12	12:00	--	12.11	--	--	6.10	--	--
	08/22/12	14:18	6.53	12.44	2.18	0.0	1.37	0.58	94
	11/15/12	12:00	--	14.4	--	--	1.69	--	--
	02/04/13	12:00	--	13.7	--	--	0.47	--	--
	05/06/13	12:00	--	11.6	--	--	7.41	--	--
	08/08/13	10:47	6.67	12.50	1.69	0.0	0.19	0.12	47
A-13	08/12/10	10:00	5.97	15.08	1.842	58.7	0.09	0.0	158.2
(0-19')	11/17/10	9:00	5.04	14.70	2.292	75.6	0.21	0.6	1390.5
	02/07/11	0:00	--	13.70	--	--	0.27	--	--
	05/02/11	0:00	--	12.60	--	--	1.08	--	--
	08/22/11	10:40	6.34	12.05	2.76	2	1.31	1.5	351
	11/07/11	12:00	--	13.92	--	--	1.67	--	--
	02/16/12	13:25	9.67	13.72	26.03	6.06	0.63	--	-70.1
	05/01/12	12:00	--	12.30	--	--	2.97	--	--
	08/22/12	13:48	6.63	13.00	3.14	0.0	0.19	0.55	52
	11/15/12	12:00	--	14.6	--	--	0.11	--	--
	02/04/13	12:00	--	14.1	--	--	0.98	--	--
	05/06/13	12:00	--	12.1	--	--	0.41	--	--
	08/08/13	11:25	6.47	12.80	3.31	0.0	0.15	0.02	107
A-14	08/09/10	0:00	--	--	--	--	0.08	--	--
(0-19')	11/17/10	9:30	4.56	15.00	1.346	35.6	2.19	0.6	1429.1
	02/07/11	0:00	--	11.60	--	--	0.58	--	--
	05/02/11	0:00	--	12.30	--	--	0.23	--	--
	08/22/11	11:05	6.18	12.23	1.81	7.4	0.21	9.0	-56
	11/07/11	12:00	--	14.11	--	--	2.43	--	--
	02/13/11	12:00	--	11.86	--	--	0.48	--	--
	02/16/12	12:20	8.63	12.89	14.01	9.71	2.23	--	-113.4
	08/22/12	12:58	6.46	13.50	1.19	0.0	1.02	2.29	-82
	11/15/12	12:00	--	13.4	--	--	0.22	--	--
	02/04/13	12:00	--	13.1	--	--	4.04	--	--
	05/06/13	12:00	--	11.5	--	--	0.61	--	--
	08/08/13	10:12	6.33	13.0	2.23	0.0	0.24	2.26	-60
A-18	05/02/11	0:00	--	--	--	--	--	--	--
(0-13')	11/07/11	0:00	--	16.62	--	--	7.77	--	--

Table 3
MNA Pilot Study
Field Parameters
Former BAE Facility
Lansdale, Pennsylvania

Location ID	Date	Time	Field Parameters						
			pH	Downhole Temp	Conductivity	Turbidity	Downhole DO	Ferrous Iron[3]	ORP
			pH Units	deg C	mS/cm	NTU	mg/L	mg/L	mV
FOX MW-1 (unknown)	08/09/10	0:00	--	--	--	--	0.11	--	--
	11/19/10	9:45	7.22	12.40	0.599	23.3	0.11	0.0	99.7
	05/02/11	0:00	--	13.40	--	--	0.22	--	--
	08/19/11	9:50	7.19	11.78	0.679	6.5	0.20	0.0	65
	11/07/11	12:00	--	11.47	--	--	0.59	--	--
	02/13/11	12:00	--	11.86	--	--	0.48	--	--
	05/01/12	12:00	--	12.07	--	--	0.21	--	--
	08/15/12	12:58	7.58	12.80	0.670	6.3	0.16	0.00	-24
	11/15/12	12:00	--	12.0	--	--	0.02	--	--
	02/04/13	12:00	--	12.4	--	--	0.25	--	--
	05/06/13	12:00	--	9.9	--	--	0.19	--	--
	08/06/13	13:08	7.30	12.10	0.628	8.7	0.13	0.17	8
FOX MW-2 (unknown)	08/09/10	0:00	--	--	--	--	0.06	--	--
	11/16/10	11:25	7.39	12.70	0.434	52.13	0.09	0.5	-78.1
	05/02/11	0:00	--	12.90	--	--	0.36	--	--
	08/16/11	12:30	7.08	11.50	0.486	633	0.63	5.0	-4.0
	11/07/11	12:00	--	11.16	--	--	0.62	--	--
	02/13/11	12:00	--	11.46	--	--	0.42	--	--
	05/01/12	12:00	--	11.58	--	--	0.20	--	--
	08/15/12	12:00	7.65	11.70	0.536	101.3	0.28	0.00	-84
	11/15/12	12:00	--	11.60	--	--	0.09	--	--
	02/04/13	12:00	--	11.60	--	--	0.25	--	--
	05/06/13	12:00	--	11.70	--	--	0.51	--	--
	08/07/13	14:08	7.33	11.76	0.572	273	0.33	0.20	-14
FOX MW-5 (unknown)	08/09/10	0:00	--	--	--	--	2.31	--	--
	09/15/10	0:00	--	11.60	--	--	2.12	--	--
	10/12/10	0:00	--	11.66	--	--	3.17	--	--
	11/16/10	12:15	7.61	12.50	0.576	7.41	2.03	0.0	51.9
	02/16/11	11:48	7.82	11.97	0.580	38.8	0.62	0.0	27.1
	05/03/11	11:15	7.20	13.30	0.555	33.4	1.60	0.0	-68.1
	08/16/11	13:40	7.75	11.55	0.610	94	2.70	4.0	112
	11/08/11	9:55	7.46	11.23	0.396	67.1	5.08	0.0	108.8
	02/14/12	11:15	7.61	11.59	0.486	47.8	2.36	0.0	57.8
	05/02/12	10:08	7.81	11.73	0.662	0.0	2.41	3.30	203
	08/15/12	12:04	7.92	11.90	0.662	2.4	1.72	0.00	66
	11/15/12	9:30	7.74	11.70	0.681	32.1	1.72	0.65	-38
	02/07/13	12:30	7.55	12.10	0.680	38.2	1.15	20.48 [4]	218
	05/09/13	14:14	7.56	10.3	0.673	94.2	1.43	23.84 [4]	139
	08/12/13	13:19	7.62	11.90	0.673	10.9	2.36	0.44	66

Table 3
MNA Pilot Study
Field Parameters
Former BAE Facility
Lansdale, Pennsylvania

Location ID	Date	Time	Field Parameters						
			pH	Downhole Temp	Conductivity	Turbidity	Downhole DO	Ferrous Iron[3]	ORP
			pH Units	deg C	mS/cm	NTU	mg/L	mg/L	mV
PW-1	08/12/10	13:32	5.11	16.61	2.728	--	3.39	0.0	200.1
(11-60')	09/15/10	0:00	--	16.60	--	--	2.86	--	--
	10/12/10	0:00	--	17.86	--	--	5.06	--	--
	11/17/10	13:10	5.19	17.60	2.627	18.68	1.71	0.0	222.1
	02/16/11	14:55	5.47	16.81	3.422	20.5	5.50	0.0	215.1
	05/04/11	12:19	6.07	16.60	2.891	22.1	0.24	0.0	41.3
	08/19/11	12:10	5.41	15.46	3.51	13.7	3.01	10.0	255
	11/09/11	12:00	5.43	14.89	2.072	146.1	1.62	0.0	105.6
	02/17/12	11:00	5.97	15.17	2.100	71.4	0.93	10.0	201.4
	05/03/12	15:11	5.52	15.88	3.07	5.1	4.55	2.50	303
	08/21/12	16:41	5.62	16.27	3.00	0.0	1.69	0.49	246
	11/15/12	13:10	5.60	16.6	3.10	29.1	3.64	0.47	283
	02/07/13	9:05	5.31	17.60	2.97	27.3	2.95	6.12 [4]	304
	05/09/13	11:04	5.07	15.50	3.26	6.9	4.30	8.28 [4]	291
	08/12/13	10:04	5.64	16.0	3.39	68.1	3.15	9.48 [4]	216
PW-2	08/13/10	11:55	5.77	13.97	1.589	26.27	1.78	0.0	138.4
(12-61')	09/15/10	0:00	--	13.00	--	--	3.09	--	--
	10/12/10	0:00	--	12.76	--	--	1.21	--	--
	11/17/10	10:30	5.79	13.70	1.691	13.1	2.93	0.0	199.1
	02/16/11	13:44	5.76	13.79	1.361	46.1	4.02	0.0	193.1
	05/04/11	11:29	6.16	14.40	1.591	41.1	4.31	0.0	76
	08/18/11	16:25	6.08	12.78	2.17	17	0.25	0.0	232
	11/09/11	9:50	5.53	12.57	1.226	14.3	1.33	0.0	204.3
	02/16/12	13:50	5.85	12.86	1.731	14.3	1.35	0.8	199.1
	05/03/12	13:41	6.06	13.37	1.23	0.0	3.61	0.73	305
	08/16/12	13:48	6.21	13.20	2.23	0.0	0.53	0.28	185
	11/15/12	8:35	6.05	13.7	2.29	20.1	2.21	0.34	246
	02/07/13	11:20	5.77	13.90	1.74	28.9	3.16	0.26	264
	05/09/13	13:24	5.80	13.70	2.70	52.9	4.65	0.25	254
	08/12/13	12:18	5.78	13.70	2.79	11.8	2.63	0.37	169
PW-3	08/13/10	10:25	5.48	11.99	1.087	8.48	3.57	0.0	158.7
(12-60')	11/17/10	9:50	5.48	12.70	1.068	23.41	0.33	0.0	237.2
	05/02/11	0:00	--	13.30	--	--	1.22	--	--
	08/18/11	15:50	6.19	12.01	1.47	117	2.85	0.0	179
	11/07/11	12:00	--	11.57	--	--	3.42	--	--
	02/13/11	12:00	--	11.88	--	--	1.69	--	--
	05/01/12	12:00	--	12.13	--	--	2.90	--	--
	08/16/12	14:43	6.90	12.20	1.49	94.6	0.43	1.09	139
	11/15/12	12:00	--	12.7	--	--	3.14	--	--
	02/04/13	12:00	--	12.80	--	--	3.44	--	--
	05/06/13	12:00	--	11.40	--	--	4.05	--	--
	08/12/13	12:09	6.34	12.27	2.26	101	4.76	1.01	151

Table 3
MNA Pilot Study
Field Parameters
Former BAE Facility
Lansdale, Pennsylvania

Location ID	Date	Time	Field Parameters						
			pH	Downhole Temp	Conductivity	Turbidity	Downhole DO	Ferrous Iron[3]	ORP
			pH Units	deg C	mS/cm	NTU	mg/L	mg/L	mV
PW-4	08/12/10	11:43	4.90	16.77	2.99	--	1.35	0.0	204.9
(12-61')	11/16/10	13:15	5.27	15.00	2.941	32.1	1.83	0.0	154.1
	05/02/11	0:00	--	17.10	--	--	0.19	--	--
	08/18/11	17:30	5.68	15.68	3.98	108	2.81	3.0	190
	11/07/11	12:00	--	15.31	--	--	1.74	--	--
	02/13/11	12:00	--	15.02	--	--	0.98	--	--
	05/01/12	12:00	--	15.88	--	--	0.68	--	--
	08/20/12	15:56	5.79	15.91	3.56	86.8	0.09	1.34	165
	11/15/12	12:00	--	15.2	--	--	0.25	--	--
	02/04/13	12:00	--	16.20	--	--	0.24	--	--
	05/06/13	12:00	--	16.40	--	--	1.27	--	--
	08/12/13	8:58	5.55	16.40	4.44	208	0.17	9.68 [4]	99
PW-5	08/12/10	12:23	5.72	16.95	3.79	--	4.36	0.0	203.1
(11-70')	11/16/10	15:35	5.60	16.50	3.513	7.10	3.65	1.0	184.0
	05/02/11	0:00	--	16.70	--	--	0.18	--	--
	08/18/11	17:15	6.52	15.19	4.88	51.8	0.35	2.0	127
	11/07/11	12:00	--	14.87	--	--	1.65	--	--
	02/13/11	12:00	--	15.01	--	--	0.69	--	--
	05/01/12	12:00	--	15.15	--	--	4.22	--	--
	08/20/12	15:35	6.45	15.23	3.73	56.6	2.64	1.71	91
	11/15/12	12:00	--	14.9	--	--	3.40	--	--
	02/04/13	12:00	--	15.80	--	--	3.18	--	--
	05/06/13	12:00	--	16.0	--	--	2.91	--	--
	08/12/13	9:14	6.09	16.4	4.98	108	6.01	1.04	142
PW-6A	08/12/10	12:10	7.44	16.49	0.539	89.5	2.98	--	1.2
(18-52')	11/17/10	13:50	7.20	16.20	0.602	127.9	0.08	0.0	500
	05/02/11	0:00	--	17.10	--	--	0.17	--	--
	08/18/11	12:40	7.78	15.60	0.782	607	0.17	0.0	-17
	11/07/11	12:00	--	15.25	--	--	0.67	--	--
	02/13/11	12:00	--	15.68	--	--	0.29	--	--
	05/01/12	12:00	--	15.75	--	--	0.23	--	--
	08/20/12	14:04	7.72	15.90	0.853	73.1	0.09	0.72	-93
	11/15/12	12:00	--	15.8	--	--	0.01	--	--
	02/04/13	12:00	--	16.80	--	--	0.28	--	--
	05/06/13	12:00	--	15.80	--	--	0.34	--	--
	08/12/13	8:14	7.44	16.00	0.906	154	0.61	1.16	145
PW-6B	08/12/10	10:54	7.50	16.27	0.649	--	0.19	0.0	-1.8
(66-86')	11/17/10	13:55	7.61	15.20	0.600	12.19	0.09	0.0	16.3
	05/02/11	0:00	--	16.20	--	--	0.10	--	--
	08/18/11	13:05	8.02	14.45	0.831	371	0.21	0.0	31
	11/07/11	12:00	--	14.19	--	--	0.55	--	--
	02/13/11	12:00	--	14.46	--	--	0.19	--	--
	05/01/12	12:00	--	14.73	--	--	0.37	--	--
	08/20/12	14:33	7.94	14.72	0.721	0.0	0.15	0.48	-31
	11/15/12	12:00	--	15.4	--	--	0.05	--	--
	02/04/13	12:00	--	15.1	--	--	0.19	--	--
	05/06/13	12:00	--	15.02	--	--	0.32	--	--
	08/08/13	10:04	7.70	14.92	0.698	31.6	0.37	0.43	142

Table 3
MNA Pilot Study
Field Parameters
Former BAE Facility
Lansdale, Pennsylvania

Location ID	Date	Time	Field Parameters						
			pH	Downhole Temp	Conductivity	Turbidity	Downhole DO	Ferrous Iron[3]	ORP
			pH Units	deg C	mS/cm	NTU	mg/L	mg/L	mV
PW-7A (90-110')	08/12/10	9:24	7.32	12.23	0.530	--	0.89	0.0	59.9
	11/19/10	10:55	7.40	12.80	0.568	23.9	0.17	0.0	99.9
	05/02/11	0:00	--	13.60	--	--	0.99	--	--
	08/18/11	11:05	7.24	11.95	0.761	0.3	1.09	0.0	156
	11/07/11	12:00	--	11.63	--	--	0.86	--	--
	02/13/11	12:00	--	11.92	--	--	0.41	--	--
	05/01/12	12:00	--	12.11	--	--	0.41	--	--
	08/16/12	10:58	7.80	12.02	0.686	0.0	0.19	0.26	45
	11/15/12	12:00	--	12.5	--	--	0.74	--	--
	02/04/13	12:00	--	12.50	--	--	0.99	--	--
	05/06/13	12:00	--	12.08	--	--	0.49	--	--
	08/07/13	15:54	7.41	12.12	0.709	2.7	0.63	0.57	-40
PW-7B (124-144')	08/12/10	9:57	7.44	12.33	0.622	--	0.13	0.0	2.1
	11/19/10	11:35	7.56	12.70	0.569	18.18	0.08	0.0	-9.3
	05/02/11	0:00	--	13.50	--	--	0.19	--	--
	08/18/11	11:25	7.36	11.74	0.727	5.2	0.11	0.0	39
	11/07/11	12:00	--	11.51	--	--	0.67	--	--
	02/13/11	12:00	--	11.86	--	--	0.20	--	--
	05/01/12	12:00	--	11.90	--	--	0.27	--	--
	08/16/12	9:51	7.89	11.96	0.693	0.0	0.05	0.57	-27
	11/15/12	12:00	--	12.8	--	--	0.01	--	--
	02/04/13	12:00	--	11.76	--	--	0.34	--	--
	05/06/13	12:00	--	11.93	--	--	0.22	--	--
	08/08/13	8:28	7.42	11.97	0.626	0.6	0.22	0.06	-23
PW-8A (18-46')	08/11/10	10:23	6.90	12.24	0.493	101.3	0.22	0.0	151.9
	09/15/10	0:00	--	11.50	--	--	0.16	--	--
	10/12/10	0:00	--	11.81	--	--	0.27	--	--
	11/16/10	9:25	7.30	12.70	0.471	--	0.08	--	1179.4
	02/15/11	10:58	7.74	11.23	0.633	40.1	0.07	0.0	124.1
	05/03/11	14:32	9.59	13.50	0.463	16.9	0.28	0.4	-7.2
	08/22/11	15:40	7.51	11.90	0.624	0.0	0.14	0.0	211
	11/08/11	12:55	7.20	11.58	0.398	7.5	0.72	0.0	131.6
	02/15/12	8:15	7.37	11.92	0.445	8.5	0.21	0.0	65.1
	05/03/12	9:25	7.65	12.18	0.649	17.2	0.30	2.12	187
	08/21/12	10:55	7.75	12.70	0.673	0.0	0.10	0.65	54
	11/15/12	14:25	7.47	12.1	0.671	30.8	0.08	0.67	142
	02/07/13	10:05	7.32	12.50	0.629	35.3	0.66	1.13	178
	05/09/13	12:09	7.26	11.50	0.630	9.6	0.43	0.2	211
	08/14/13	10:24	7.33	12.4	0.659	4.3	0.13	1.11	194

Table 3
MNA Pilot Study
Field Parameters
Former BAE Facility
Lansdale, Pennsylvania

Location ID	Date	Time	Field Parameters						
			pH	Downhole Temp	Conductivity	Turbidity	Downhole DO	Ferrous Iron[3]	ORP
			pH Units	deg C	mS/cm	NTU	mg/L	mg/L	mV
PW-8B	08/09/10	0:00	--	--	--	--	0.06	--	--
(60-100')	09/15/10	0:00	--	12.40	--	--	0.53	--	--
	10/12/10	0:00	--	11.88	--	--	0.27	--	--
	11/18/10	10:25	7.33	12.60	0.565	12.46	0.07	0.0	-24.1
	02/15/11	11:35	7.52	10.88	0.676	17.3	0.07	0.0	-66.8
	05/03/11	15:29	7.41	13.40	0.540	20.1	0.22	1.2	-26.9
	08/16/11	16:40	7.41	11.86	0.732	1.5	0.23	0.0	-39
	11/08/11	14:55	7.13	11.56	0.458	0.7	0.71	0.0	-28.2
	02/14/12	13:20	7.29	11.89	0.568	0.7	0.30	0.0	-25.1
	05/02/12	11:29	7.54	11.92	0.791	0.0	0.23	1.60	-18
	08/15/12	15:46	7.57	11.98	0.860	--	0.07	0.13	-74
	11/15/12	12:15	7.46	12.8	0.872	13.2	0.14	1.00	-49
	02/06/13	3:50	7.24	11.77	0.851	12.8	0.41	0.40	30
	05/09/13	10:08	7.17	11.96	0.858	0.5	0.45	1.04	-26
	08/09/13	10:04	7.35	11.95	0.916	4.4	0.37	0.55	-15
PW-9A	08/12/10	13:45	7.30	16.97	0.608	--	0.54	0.0	149.8
(10-48')	11/19/10	11:05	5.66	15.10	0.744	33.8	0.07	0.0	1141.1
	08/17/11	14:25	7.35	--	1.08	4.0	--	0.0	151
	08/22/12	9:38	7.40	--	1.35	0.0	--	0.45	130
	11/15/12	12:05	2.28	--	1.10	23.9	--	0.28	253
	02/11/13	10:20	6.94	--	1.43	81.3	--	0.58	251
	05/10/13	11:53	6.95	--	1.360	21.0	--	0.19	160
	08/06/13	10:30	6.94	--	1.37	2.5	--	0.04	156
PW-9B	08/12/10	14:51	7.64	16.34	0.448	12.55	0.18	--	133.1
(62-85')	11/19/10	12:00	4.51	14.90	0.463	81.3	0.08	0.0	1237.9
	08/17/11	15:05	7.87	--	0.562	15.1	--	0.0	43
	08/22/12	10:13	8.03	--	0.615	0.0	--	0.38	-59
	11/15/12	12:55	7.82	--	0.642	24.7	--	0.15	45
	02/11/13	10:55	7.65	--	0.624	22.1	--	0.20	178
	05/10/13	12:23	7.69	--	0.591	9.9	--	0.07	77
	08/06/13	11:15	7.71	--	0.580	8.2	--	0.01	58
PW-10A	08/11/10	11:35	6.55	12.74	0.700	--	0.19	0.0	257.2
(19-50')	09/15/10	0:00	--	12.80	--	--	0.28	--	--
	10/12/10	0:00	--	12.60	--	--	2.56	--	--
	11/18/10	12:15	7.56	13.10	0.566	11.91	0.10	0.0	94.9
	02/15/11	15:55	7.35	11.51	0.842	25	0.08	0.0	37.2
	05/03/11	16:35	7.22	13.90	0.777	23.1	0.30	0.2	-24.1
	08/23/11	11:35	7.31	12.30	1.02	0.0	0.24	0.0	111
	11/09/11	8:40	6.91	12.02	0.665	7.6	0.79	0.0	111.6
	02/15/12	9:40	7.04	12.35	0.789	0.7	0.35	3.2	57.4
	05/03/12	10:40	7.36	12.46	1.05	0.0	0.41	3.30	178
	08/21/12	11:22	7.39	12.80	1.13	0.0	0.28	1.41	59
	11/15/12	10:00	7.19	12.6	1.16	19.7	0.10	0.29	150
	02/07/13	1:25	7.54	12.80	0.662	19.9	0.45	0.58	120
	05/10/13	8:49	6.93	12.30	1.18	0.0	3.89	0.5	190
	08/14/13	12:08	7.00	12.56	1.19	8.5	0.35	0.56	223

Table 3
MNA Pilot Study
Field Parameters
Former BAE Facility
Lansdale, Pennsylvania

Location ID	Date	Time	Field Parameters						
			pH	Downhole Temp	Conductivity	Turbidity	Downhole DO	Ferrous Iron[3]	ORP
			pH Units	deg C	mS/cm	NTU	mg/L	mg/L	mV
PW-10B (64-84')	08/11/10	15:54	6.90	12.70	0.551	--	0.11	0.0	175.2
	09/15/10	0:00	--	12.40	--	--	0.06	--	--
	10/12/10	0:00	--	12.58	--	--	0.31	--	--
	11/18/10	16:00	7.43	12.90	0.552	10.63	0.07	0.0	68.9
	02/15/11	16:24	7.91	10.75	0.591	21.9	0.08	0.0	0.6
	05/03/11	16:29	7.70	13.70	0.551	39.9	0.18	0.0	-161.1
	08/18/11	12:00	7.74	12.16	0.637	5.7	0.23	0.0	40
	11/09/11	8:30	7.43	11.91	0.368	8.6	0.67	0.0	119.8
	02/14/12	13:45	7.57	12.27	0.482	4.7	0.27	0.0	-44.1
	05/02/12	14:48	7.89	12.32	0.647	0.0	0.22	0.49	78
	08/16/12	12:22	7.90	12.30	0.675	0.0	0.50	0.36	89
	11/15/12	9:20	7.69	12.9	0.686	6.3	0.01	0.35	-31
	02/06/13	10:35	7.57	12.80	0.664	11.4	0.37	0.69	22
	05/08/13	11:28	7.59	12.35	0.652	3.1	0.31	0.34	5
	08/09/13	9:39	7.56	12.38	0.679	6.9	0.27	0.56	198
PW-11 (13-80')	08/11/10	14:30	7.58	12.26	0.479	--	0.98	0.0	89.7
	09/15/10	0:00	--	11.70	--	--	0.90	--	--
	10/12/10	0:00	--	11.58	--	--	0.45	--	--
	11/18/10	9:20	7.65	12.30	0.517	7.10	0.07	0.0	92.9
	02/08/11	14:35	7.24	8.86	0.521	20.9	0.06	0.0	132
	05/03/11	12:21	7.67	12.50	0.509	11	0.80	0.0	-101.3
	08/22/11	14:25	7.39	11.43	0.623	0.0	0.65	0.0	178
	11/08/11	12:20	7.46	11.21	0.417	4.2	0.79	0.0	70.1
	02/15/12	8:10	7.66	11.50	0.530	4.9	0.67	0.2	33.2
	05/03/12	9:40	7.82	11.53	0.722	0.0	0.67	0.63	153
	08/21/12	9:58	7.92	11.54	0.760	0.0	0.21	0.29	45
	11/15/12	15:15	7.73	14.2	0.785	33.8	0.48	0.64	56
	02/07/13	10:30	7.45	12.30	0.831	14.3	0.63	0.97	166
	05/09/13	12:34	7.51	11.54	0.783	25.5	0.28	0.95	140
	08/14/13	10:58	7.58	11.57	0.783	5.1	0.84	0.37	175
PW-12 (unknown)	08/09/10	0:00	--	--	--	--	0.21	--	--
	09/15/10	0:00	--	11.70	--	--	0.12	--	--
	10/12/10	0:00	--	11.66	--	--	1.00	--	--
	11/17/10	16:00	7.46	12.80	0.564	12.96	0.11	0.0	88.1
	02/15/11	13:48	7.63	10.93	0.612	17.6	0.08	0.0	12.7
	05/03/11	13:29	7.54	13.30	0.621	9.9	0.24	0.0	-162.1
	08/17/11	10:55	7.59	11.66	0.824	12.1	0.29	0.0	20
	11/08/11	15:50	7.27	11.35	0.536	3.9	0.94	0.8	26.1
	02/15/12	13:00	7.43	11.67	0.672	0.7	0.24	2.0	21.6
	05/02/12	12:32	7.71	11.72	0.927	0.0	0.21	0.25	1.8
	08/16/12	9:30	7.61	11.72	1.01	0.0	0.17	0.00	67
	11/15/12	13:25	7.52	12.6	1.05	8.9	0.16	0.10	31
	02/06/13	9:10	7.41	12.20	1.01	13.7	0.36	0.47	139
	05/07/13	14:49	7.29	11.72	0.970	0.0	0.28	1.75	26
	08/08/13	14:38	7.42	11.73	1.07	1.9	0.39	0.23	42

Table 3
MNA Pilot Study
Field Parameters
Former BAE Facility
Lansdale, Pennsylvania

Location ID	Date	Time	Field Parameters						
			pH	Downhole Temp	Conductivity	Turbidity	Downhole DO	Ferrous Iron[3]	ORP
			pH Units	deg C	mS/cm	NTU	mg/L	mg/L	mV
PW-13	08/13/10	11:25	7.04	12.05	0.392	--	1.29	--	120.4
(19-80')	09/15/10	0:00	--	12.00	--	--	0.98	--	--
	10/12/10	0:00	--	11.27	--	--	4.61	--	--
	11/17/10	14:55	7.68	12.50	0.562	11.41	0.08	0.0	36.7
	02/15/11	14:58	7.82	11.08	0.692	87.4	0.73	0.0	9.6
	05/03/11	15:27	7.49	13.70	0.716	12.2	0.22	0.0	-60.1
	08/17/11	12:00	7.81	11.96	0.911	82.4	0.25	0.0	55
	11/08/11	16:40	7.46	11.63	0.571	18.3	0.77	0.0	18.0
	02/15/12	14:15	7.61	11.93	0.664	28.6	0.27	4.2	19.4
	05/02/12	14:01	7.93	11.96	0.835	16.1	0.72	1.31	-53
	08/16/12	10:22	7.94	11.93	0.825	9.9	0.26	0.32	14
	11/15/12	10:10	7.78	12.3	0.866	15.1	0.55	0.33	22
	02/06/13	11:20	7.60	12.30	0.837	54.8	0.80	5.46 [4]	85
	05/08/13	12:39	7.64	11.88	0.833	74.3	0.75	2.75	111
	08/09/13	11:24	7.63	11.92	0.893	13.9	0.40	0.22	76
PW-14	08/13/10	9:42	6.37	12.40	0.577	25.11	5.71	0.0	108.9
(18-80')	09/15/10	0:00	--	12.00	--	--	2.10	--	--
	10/12/10	0:00	--	12.46	--	--	1.24	--	--
	11/17/10	8:45	6.06	13.00	0.598	10.15	1.78	0.0	218.9
	02/16/11	12:55	6.51	11.59	0.205	63.1	5.44	0.0	138.3
	05/04/11	10:38	5.83	14.10	0.131	42.3	4.00	0.0	65.9
	08/18/11	15:00	6.37	12.13	0.713	181	1.51	0.0	206
	11/09/11	9:40	6.01	11.81	0.121	21.9	5.72	0.0	138.6
	02/16/12	12:50	5.99	12.06	0.156	17.4	3.54	9.6	191.9
	05/03/12	14:10	6.43	12.12	0.148	0.0	4.07	2.39	271
	08/16/12	14:00	6.52	12.80	0.792	0.0	0.85	0.54	157
	11/15/12	12:25	6.46	11.60	0.686	13.3	3.47	0.50	193
	02/05/13	2:10	6.20	12.20	0.243	31.3	6.70	10.76 [4]	262
	05/07/13	13:49	5.70	12.02	0.179	14.3	6.47	5.56 [4]	301
	08/08/13	12:58	6.11	11.99	0.461	3.3	4.27	0.35	206
Recovery	09/15/10	0:00	--	15.70	--	--	3.88	--	--
Well	10/12/10	0:00	--	14.97	--	--	3.68	--	--
(4-104')	11/16/10	14:25	6.30	14.33	1.791	--	--	--	412.1
	02/07/11	0:00	--	12.30	--	--	6.91	--	--
	05/04/11	13:26	6.35	15.00	2.611	31.1	4.91	0.0	5.8
	08/19/11	12:20	6.56	13.42	2.98	5.7	5.18	0.0	210
	11/09/11	12:15	6.03	13.21	1.487	7.9	1.68	0.0	139.8
	02/17/12	11:15	6.33	15.17	1.969	8.9	5.82	1.2	195.6
	05/03/12	15:21	6.56	14.16	2.58	0.0	7.02	0.44	263
	08/20/12	16:47	6.80	13.99	1.72	0.0	2.13	0.54	147
	11/15/12	10:50	6.79	16.5	2.10	9.8	4.76	0.39	153
	02/06/13	1:35	6.35	15.60	2.45	29.3	0.53	0.12	237
	05/08/13	14:14	6.26	13.80	2.990	18.1	5.79	0.23	227
	08/12/13	10:14	6.02	13.90	2.69	21.0	5.58	0.48	208

Table 3
MNA Pilot Study
Field Parameters
Former BAE Facility
Lansdale, Pennsylvania

Location ID	Date	Time	Field Parameters						
			pH	Downhole Temp	Conductivity	Turbidity	Downhole DO	Ferrous Iron[3]	ORP
			pH Units	deg C	mS/cm	NTU	mg/L	mg/L	mV
RI-19D	08/13/10	12:10	6.89	12.84	0.311	19.5	0.13	2.8	-43.0
(70-80')	09/15/10	0:00	--	12.50	--	--	0.19	--	--
	10/12/10	0:00	--	12.34	--	--	0.35	--	--
	11/19/10	13:35	6.92	15.00	0.323	10.1	0.08	1.4	-75.1
	02/16/11	9:30	7.19	12.49	0.335	16.1	0.29	2.0	-87.3
	05/05/11	10:55	7.09	13.70	0.213	28.6	0.56	3.0	-51.9
	08/16/11	16:55	7.24	12.40	0.349	18.8	0.24	8.0	-75
	11/10/11	13:05	6.78	11.92	0.218	1.1	0.76	3.0	-68.1
	02/16/12	11:40	7.02	12.25	0.264	0.0	0.43	8.2	-93.9
	05/04/12	11:27	7.16	12.28	0.348	0.0	0.27	2.93	-91
	08/20/12	13:25	7.27	12.60	0.358	0.0	0.12	1.84	-123
	11/15/12	8:55	7.10	12.6	0.355	4.1	0.11	3.11	-65
	02/05/13	9:15	6.98	12.8	0.355	14.1	0.88	5.86 [4]	-78
	05/07/13	10:06	6.89	12.32	0.329	0.0	0.41	4.6	-104
	08/06/13	14:39	7.05	12.37	0.325	1.9	0.43	1.28	-99
RI-19S	08/13/10	13:15	6.73	12.96	0.289	16.52	0.19	0.4	-53.8
(46-56')	09/15/10	0:00	--	12.90	--	--	0.14	--	--
	10/12/10	0:00	--	12.68	--	--	3.24	--	--
	11/19/10	13:10	6.79	13.90	0.298	12.31	0.12	3.0	-62.3
	02/16/11	9:08	7.23	12.63	0.315	17.30	0.58	3.0	-89
	05/05/11	10:28	6.89	14.10	0.208	33.2	0.75	4.0	-44.9
	08/16/11	16:05	6.68	12.22	0.327	0.0	0.35	6.5	-56
	11/10/11	12:30	6.60	12.16	0.203	-0.2[2]	0.85	4.0	-74.1
	02/16/12	11:00	6.85	12.41	0.244	0.0	0.51	8.0	-76.1
	05/04/12	10:42	6.81	12.26	0.327	0.0	0.43	2.12	-63
	08/20/12	12:45	7.06	12.80	0.337	0.0	0.10	2.60	-96
	11/15/12	8:25	6.94	12.7	0.340	19.3	0.08	4.72 [4]	-57
	02/05/13	8:40	6.83	12.6	0.342	40.9	1.02	10.0 [4]	-44
	05/07/13	9:19	6.56	12.36	0.322	0.4	0.53	6.0	-83
	08/06/13	13:59	6.9	12.88	0.314	1.9	0.48	1.41	-93
RI-20D	08/09/10	0:00	--	--	--	--	0.04	--	--
(100-110')	11/18/10	15:20	7.27	12.90	0.577	8.90	0.08	0.0	-11.0
	05/02/11	0:00	--	13.80	--	--	1.80	--	--
	08/17/11	10:15	7.44	12.10	0.779	2.2	0.16	0.0	14
	11/07/11	12:00	--	11.86	--	--	0.76	--	--
	02/13/11	12:00	--	12.20	--	--	0.30	--	--
	05/01/12	12:00	--	--	--	--	--	--	--
	08/16/12	16:15	7.59	14.24	0.880	--	--	0.57	-36
	11/15/12	12:00	--	13.2	--	--	0.07	--	--
	02/04/13	12:00	--	12.08	--	--	0.18	--	--
	05/06/13	12:00	--	12.24	--	--	0.22	--	--
	08/07/13	14:59	7.21	12.31	0.907	0.6	0.31	0.17	-11

Table 3
MNA Pilot Study
Field Parameters
Former BAE Facility
Lansdale, Pennsylvania

Location ID	Date	Time	Field Parameters						
			pH	Downhole Temp	Conductivity	Turbidity	Downhole DO	Ferrous Iron[3]	ORP
			pH Units	deg C	mS/cm	NTU	mg/L	mg/L	mV
RI-20S (70-80')	08/11/10	0:00	--	12.00	--	--	0.09	--	--
	10/12/10	0:00	--	12.55	--	--	6.33	--	--
	11/18/10	11:25	7.62	13.00	0.605	18.62	0.18	0.0	106.8
	02/08/11	14:35	7.84	11.54	0.589	18.0	1.74	0.0	66
	02/15/11	12:32	7.81	10.72	0.664	18.1	1.74	0.0	-8.1
	05/04/11	12:40	7.70	13.60	0.530	19.8	0.24	0.0	-39.2
	08/23/11	10:55	7.58	12.23	0.741	8.9	0.22	0.5	123
	11/08/11	13:30	7.40	11.97	0.478	0.3	1.06	0.0	59.8
	02/15/12	9:00	7.59	12.27	0.606	0.3	0.43	0.0	44.1
	05/03/12	10:00	7.86	12.35	0.8101	0.0	0.42	3.0	168
	08/21/12	18:34	7.89	12.90	0.898	0.0	0.09	0.40	7
	11/15/12	10:35	7.70	12.5	0.944	19.8	1.06	0.56	145
	02/07/13	2:15	7.57	12.80	0.899	21.3	1.42	0.06	150
	05/10/13	9:39	7.60	12.40	0.932	0.0	4.69	0.16	164
	08/14/13	12:56	7.56	12.38	0.947	2.3	0.53	0.38	204
RI-30	05/10/13	10:43	5.88	--	0.119	73.8	--	1.87	186
	08/14/13	13:20	5.63	12.6	0.108	63.2	1.96	1.39	240
RI-31	05/02/12	--	--	--	--	--	--	--	--
	08/13/12	12:20	--	17.10	--	--	1.78	--	--
	11/15/12	0:00	--	12.8	--	--	6.89	--	--
	02/07/13	15:54	5.49	10.50	0.198	108.6	4.71	9.24 [4]	116
	05/10/13	11:14	5.20	--	0.165	0.0	--	4.70 [4]	155
	08/13/13	13:43	5.09	14.20	0.189	5.5	2.23	1.61	208
RW-1 (23-70')	09/15/10	0:00	--	12.50	--	--	2.08	--	--
	10/12/10	0:00	--	12.45	--	--	2.44	--	--
	11/18/10	13:25	7.06	13.30	0.605	18.62	1.51	0.0	148.7
	02/16/11	16:25	7.18	11.85	2.113	26.5	0.47	0.0	47.5
	05/04/11	14:30	6.82	15.00	2.084	4.9	1.10	0.0	-29.9
	08/23/11	12:20	7.29	12.36	2.6	9.7	2.61	4.0	133
	11/09/11	10:40	6.75	12.13	1.616	15.6	2.69	0.0	110.1
	02/15/12	12:00	6.07	12.47	1.761	4.1	1.41	2.0	95.8
	05/03/12	12:45	7.29	12.51	2.27	0.0	2.35	2.43	180
	08/21/12	13:10	7.33	12.55	2.54	0.0	0.32	0.22	86
	11/15/12	11:00	7.05	12.7	2.74	14.1	1.78	0.36	167
	02/06/13	1:45	6.97	13.00	2.37	16.4	1.97	0.97	219
	05/08/13	14:24	7.04	11.80	2.410	26.7	6.27	5.32 [4]	201
	08/14/13	9:41	6.95	12.70	2.38	24.9	2.92	0.55	226
RW-2 (80-150')	08/13/10	12:40	8.24	13.07	0.285	86.21	0.12	0.5	-87.8
	11/17/10	12:30	7.57	12.70	0.501	13.2	0.41	0.0	68.3
	05/02/11	0:00	--	13.90	--	--	0.16	--	--
	08/19/11	10:55	7.67	11.80	0.509	5.7	0.08	6.0	-31
	11/07/11	12:00	--	11.57	--	--	0.58	--	--
	02/13/11	12:00	--	11.92	--	--	0.21	--	--
	05/01/12	12:00	7.27	11.94	2.27	0.0	0.20	--	--
	08/16/12	15:25	7.50	12.02	0.525	0.0	0.05	0.53	91
	11/15/12	12:00	--	12.8	--	--	0.25	--	--
	02/04/13	12:00	--	11.88	--	--	0.55	--	--
	05/06/13	12:00	--	12.01	--	--	0.15	--	--
	08/06/13	15:50	7.64	12.06	0.504	5.9	0.20	0.20	-19

Table 3
MNA Pilot Study
Field Parameters
Former BAE Facility
Lansdale, Pennsylvania

Location ID	Date	Time	Field Parameters						
			pH	Downhole Temp	Conductivity	Turbidity	Downhole DO	Ferrous Iron[3]	ORP
			pH Units	deg C	mS/cm	NTU	mg/L	mg/L	mV
RW-3 (150-210')	08/16/10	13:35	7.87	12.47	0.478	38.7	0.09	1.5	-234.5
	11/17/10	11:45	7.21	12.80	0.512	8.87	0.08	0.0	-127.3
	05/02/11	0:00	--	14.70	--	--	0.16	--	--
	08/19/11	11:10	7.20	11.87	0.559	0.0	0.08	10.0	-99
	11/07/11	12:00	--	11.64	--	--	0.63	--	--
	02/13/11	12:00	--	11.96	--	--	0.26	--	--
	05/01/12	12:00	--	11.99	--	--	0.14	--	--
	08/16/12	16:20	7.53	12.08	0.553	0.0	0.16	1.12	-164
	11/15/12	12:00	--	12.4	--	--	0.11	--	--
	02/04/13	12:00	--	11.96	--	--	0.43	--	--
	05/06/13	12:00	--	12.00	--	--	0.11	--	--
	08/06/13	17:44	7.48	11.99	0.506	2.2	0.24	2.06	-164
RW-4D	08/17/12	10:50	8.04	11.97	0.313	0.0	0.12	2.09	-146
	11/15/12	0:00	--	13	--	--	0.01	--	--
	02/04/13	12:52	--	11.8	--	--	0.29	--	--
	05/06/13	12:00	--	11.98	--	--	0.2	--	--
	08/07/13	9:48	7.71	11.91	0.305	2.3	0.3	0.27	-57
RW-4I	08/17/12	11:00	8.07	11.95	0.294	0	0.05	0	-68
	11/15/12	0:00	--	13.3	--	--	0.22	--	--
	02/04/13	12:56	--	11.75	--	--	0.41	--	--
	05/06/13	12:00	--	11.91	--	--	0.2	--	--
	08/07/13	10:24	7.62	11.96	0.285	0	0.31	0	-42
RW-4S	08/17/12	12:05	6.74	12.80	0.125	4.2	0.20	2.5	-30
	11/15/12	0:00	--	12.1	--	--	0.14	--	--
	02/04/13	12:54	--	12.6	--	--	0.86	--	--
	05/06/13	12:00	--	12.24	--	--	0.37	--	--
	08/12/13	11:19	6.02	12.6	0.105	40.9	0.23	2.72	46
RW-5D	08/17/12	8:55	7.95	12.05	0.459	0	0.08	0.56	-131
	11/15/12	0:00	--	12.8	--	--	0.02	--	--
	02/04/13	12:58	--	11.91	--	--	0.22	--	--
	05/06/13	12:00	--	12.06	--	--	0.26	--	--
	08/07/13	11:19	7.61	12.07	0.452	1.4	0.19	0.24	-104
RW-5I	08/17/12	0:00	8.05	12.01	0.389	0	0.10	0.41	-123
	11/15/12	0:00	--	12.9	--	--	0.08	--	--
	02/04/13	13:00	--	11.84	--	--	0.26	--	--
	05/06/13	12:00	--	12.06	--	--	0.29	--	--
	08/07/13	11:59	7.63	12.08	0.392	2.7	0.26	0.04	-95

Table 3
MNA Pilot Study
Field Parameters
Former BAE Facility
Lansdale, Pennsylvania

Location ID	Date	Time	Field Parameters						
			pH	Downhole Temp	Conductivity	Turbidity	Downhole DO	Ferrous Iron[3]	ORP
			pH Units	deg C	mS/cm	NTU	mg/L	mg/L	mV
RW-5S	08/17/12	8:50	7.88	13.20	0.456	0	0.55	2.74	-125
	11/15/12	0:00	--	12.6	--	--	0.6	--	--
	02/04/13	13:02	--	13.3	--	--	1.97	--	--
	05/06/13	12:00	--	11.9	--	--	1.21	--	--
	08/13/13	12:54	6.43	13	0.27	197	0.13	2.54	60
W-1 (9-40')	08/09/10	0:00	--	--	--	--	0.29	--	--
	09/15/10	0:00	--	14.90	--	--	0.16	--	--
	10/12/10	0:00	--	14.46	--	--	2.27	--	--
	11/18/10	14:05	5.40	15.90	1.416	12.43	0.34	0.0	1241.3
	02/07/11	0:00	--	13.00	--	--	8.93	--	--
	05/05/11	13:45	6.57	16.50	1.300	52.3	0.13	0.0	-37.9
	08/23/11	13:00	6.85	14.80	1.97	156	1.69	1.0	174
	11/09/11	12:50	6.44	14.86	1.544	351.9	2.23	0.5	143.1
	02/15/12	11:10	6.11	15.34	3.314	43.1	3.05	1.8	179.8
	05/03/12	11:59	6.63	15.35	2.35	61.3	4.25	2.73	181
	02/07/13	9:25	6.51	15.64	2.40	109	5.58	0.99	265
	05/09/13	11:14	6.18	12.3	1.650	196	1.22	2.14	226
	08/14/13	9:28	6.66	15.5	1.63	133	1.61	0.61	245
W-3 (12-23')	09/15/10	0:00	--	11.70	--	--	0.09	--	--
	10/12/10	0:00	--	12.26	--	--	0.93	--	--
	11/19/10	12:25	6.40	13.00	0.404	14.83	0.11	2.6	-7.1
	02/16/11	10:33	6.42	10.44	0.377	201.3	0.40	2.0	110.4
	05/05/11	12:51	6.60	12.70	0.245	41.3	0.45	3.5	-26.7
	08/19/11	8:40	6.35	11.19	0.43	316	0.24	8.0	36
	11/10/11	11:15	6.37	11.87	0.270	51.3	1.29	3.0	-10.1
	08/20/12	10:40	6.83	12.60	0.450	97.8	0.12	2.12	-53
	11/15/12	8:45	6.59	12.8	0.447	92	0.22	4.72 [4]	-11
	02/06/13	9:50	6.49	12.3	0.427	129	0.92	2.00	52
	05/08/13	10:44	6.32	10.6	0.419	24.3	0.23	10.32 [4]	36
	08/09/13	8:19	6.32	11.40	0.428	299	0.12	2.76	36

Table 3
MNA Pilot Study
Field Parameters
Former BAE Facility
Lansdale, Pennsylvania

Location ID	Date	Time	Field Parameters						
			pH	Downhole Temp	Conductivity	Turbidity	Downhole DO	Ferrous Iron[3]	ORP
			pH Units	deg C	mS/cm	NTU	mg/L	mg/L	mV
W-4	08/13/10	13:17	5.01	12.82	0.081	--	2.87	0.0	222.8
(16-30')	09/15/10	0:00	--	11.70	--	--	2.60	--	--
	10/12/10	0:00	--	11.21	--	--	1.84	--	--
	11/17/10	10:25	5.37	12.60	0.087	24.9	0.34	0.0	680.3
	02/16/11	9:55	5.28	10.92	0.120	21.2	6.01	0.0	161.6
	05/05/11	11:50	5.18	12.90	0.062	33.6	2.67	0.0	-14.3
	08/16/11	15:30	5.10	11.52	0.102	11.3	3.11	4.0	319
	11/10/11	11:55	4.93	11.58	0.073	5.3	2.56	0.0	180.3
	08/20/12	12:10	5.61	12.20	0.106	0.0	0.72	0.53	172
	11/15/12	11:25	5.40	12.2	0.116	18.1	2.01	0.99	263
	02/07/13	3:25	5.04	12.5	0.127	22.0	3.72	0.00	317
	05/10/13	10:14	4.95	10.9	0.121	1.6	3.13	0.49	316
	08/13/13	12:04	5.04	12.30	0.124	3.5	2.83	0.33	331
W-8	11/17/10	11:05	5.82	13.01	0.504	35.1	--	0.6	714.5
(15-30')	02/07/11	0:00	--	11.80	--	--	1.89	--	--
	05/02/11	0:00	--	12.60	--	--	0.52	--	--
	08/15/11	0:00	--	11.61	--	--	0.67	--	--
	11/11/11	12:00	--	11.44	--	--	1.99	--	--
	02/17/12	9:35	5.92	12.05	0.168	6.3	0.65	0.0	115.3
	05/04/12	12:07	5.43	11.62	0.107	0.0	0.66	1.06	253
	08/20/12	11:30	6.22	12.30	0.269	0.0	0.22	0.45	78
	05/09/13	9:14	5.31	10.4	0.810	7.9	3.10	0.4	216
	08/09/13	8:59	5.83	12.10	0.359	12.9	1.11	0.47	194
W-10	08/09/10	0:00	--	--	--	--	0.17	--	--
(7-47')	09/15/10	0:00	--	11.40	--	--	0.23	--	--
	10/12/10	0:00	--	13.13	--	--	4.61	--	--
	11/16/10	0:00	6.33	12.30	0.402	3.25	0.27	0.0	428.8
	02/08/11	11:35	5.85	6.25	0.261	31.9	5.85	0.0	245
	05/03/11	11:26	5.79	11.60	0.271	109.4	3.33	1.8	-10.1
	08/17/11	8:30	6.53	11.14	0.68	35.3	0.48	0.5	254
	11/08/11	10:50	5.39	10.38	0.232	138.6	3.10	0.0	161.3
	08/15/12	14:15	7.02	12.40	0.803	27.2	0.47	0.00	89
	11/15/12	9:25	6.37	13.1	0.528	90.9	2.25	0.51	147
	02/05/13	10:05	5.83	11.10	0.311	93.6	3.36	0.42	151
	05/07/13	10:49	5.48	9.8	0.361	63.1	2.60	0.5	165
	08/07/13	8:19	6.21	11.50	0.529	18.2	1.32	0.40	233

Table 3
MNA Pilot Study
Field Parameters
Former BAE Facility
Lansdale, Pennsylvania

Location ID	Date	Time	Field Parameters						
			pH	Downhole Temp	Conductivity	Turbidity	Downhole DO	Ferrous Iron[3]	ORP
			pH Units	deg C	mS/cm	NTU	mg/L	mg/L	mV
W-12	08/09/10	0:00	--	--	--	--	2.83	--	--
(7-40')	09/15/10	0:00	--	10.90	--	--	5.86	--	--
	10/12/10	0:00	--	10.93	--	--	5.06	--	--
	11/16/10	12:55	5.28	11.80	0.834	--	3.24	0.0	-261.7
	02/08/11	12:28	4.66	10.60	0.322	52.4	4.49	0.0	278
	05/03/11	12:10	5.30	11.30	0.140	38.7	2.60	1.0	7.0
	08/17/11	9:00	5.58	10.66	1.01	305	3.48	0.0	345
	11/08/11	11:15	5.08	11.86	0.158	80.3	3.49	0.0	222.6
	08/15/12	14:40	5.34	11.40	1.11	24.6	2.43	0.20	296
	11/15/12	9:45	5.09	12.3	1.14	43.2	2.11	0.27	339
	02/05/13	10:30	5.14	11.3	0.423	91.7	4.22	0.28	233
	05/07/13	11:14	5.41	9.2	0.270	91.6	3.65	2.5	235
	08/07/13	8:46	5.19	11.1	0.677	38.3	2.38	0.28	295
W-13	08/09/10	0:00	--	--	--	--	0.69	--	--
(10-44')	11/16/10	0:00	7.20	12.10	0.444	2.50	0.56	0.0	79.1
	05/02/11	0:00	--	12.90	--	--	0.70	--	--
	08/16/11	11:20	7.34	11.29	0.552	0.0	1.01	0.0	183
	11/07/11	12:00	--	10.93	--	--	1.19	--	--
	02/13/11	12:00	--	11.37	--	--	0.81	--	--
	11/15/12	12:00	--	11.4	--	--	0.57	--	--
	02/04/13	12:00	--	12.0	--	--	1.23	--	--
	05/06/13	12:00	--	10.7	--	--	1.20	--	--
	08/07/13	13:24	7.57	11.6	0.619	1.2	0.90	0.13	-49
W-14	08/09/10	0:00	--	--	--	--	0.99	--	--
(6-36')	09/15/10	0:00	--	11.20	--	--	1.04	--	--
	10/12/10	0:00	--	11.26	--	--	1.45	--	--
	11/17/10	15:15	7.56	10.40	0.495	--	2.02	--	431.8
	02/08/11	13:14	5.75	11.09	0.229	44.1	5.55	0.0	265
	05/03/11	13:54	6.01	10.70	0.140	12.9	3.71	0.8	4.0
	02/14/12	12:50	6.30	10.71	0.240	150.1	5.00	0.6	174.1
	05/02/12	11:00	6.61	10.38	0.345	9.3	3.94	0.89	224
	08/15/12	15:10	7.52	11.50	0.648	--	0.57	0.47	149
	11/15/12	10:05	7.43	12.5	0.679	37.2	0.63	0.26	179
	02/05/13	10:55	5.74	11.00	0.141	46.4	6.50	0.59	257
	05/07/13	11:39	6.12	9.4	0.271	32.6	5.90	1.0	248
	08/08/13	9:13	7.33	11.30	0.647	10.1	1.37	0.76	131

Table 3
MNA Pilot Study
Field Parameters
Former BAE Facility
Lansdale, Pennsylvania

Location ID	Date	Time	Field Parameters						
			pH	Downhole Temp	Conductivity	Turbidity	Downhole DO	Ferrous Iron[3]	ORP
			pH Units	deg C	mS/cm	NTU	mg/L	mg/L	mV
W-16	08/09/10	0:00	--	--	--	--	1.33	--	--
(9-47')	11/18/10	11:20	6.83	13.40	0.446	123.8	0.88	0.0	126.1
	02/15/11	17:30	7.22	11.40	0.484	75.1	0.90	0.0	83.3
	05/04/11	11:19	7.00	14.30	0.436	98.7	2.06	0.0	-34.2
	08/23/11	10:05	6.75	12.68	0.544	78	1.67	1.0	208
	11/10/11	10:35	6.87	12.32	0.337	81.9	1.62	0.0	162.1
	02/15/12	10:20	7.01	12.62	0.393	26	1.10	4.4	100.1
	05/03/12	11:18	7.36	12.79	0.528	7.8	1.21	0.36	214
	08/21/12	8:36	7.35	12.90	0.552	23.1	0.96	0.67	109
	11/15/12	10:55	7.17	12.7	0.552	40.9	0.74	0.17	141
	02/05/13	12:15	7.00	12.60	0.534	124	1.23	2.88	129
	05/07/13	12:19	7.00	12.5	0.500	90.3	1.38	0.10	155
	08/14/13	8:34	6.93	12.90	0.503	311	1.17	0.71	240
W-17	08/09/10	0:00	--	--	--	--	0.14	--	--
(6-44')	11/16/10	0:00	7.45	12.20	0.365	10.18	0.09	0.0	104.1
	05/02/11	0:00	--	13.10	--	--	0.21	--	--
	08/16/11	11:50	7.12	11.41	0.454	1.2	0.19	1.0	187
	11/07/11	12:00	--	11.12	--	--	1.14	--	--
	02/13/11	12:00	--	11.44	--	--	0.66	--	--
	05/01/12	12:00	--	11.68	--	--	0.38	--	--
	08/15/12	10:55	7.72	12.00	0.487	0.0	0.43	1.20	-68
	11/15/12	12:00	--	12.3	--	--	0.05	--	--
	02/04/13	12:00	--	12.0	--	--	0.24	--	--
	05/06/13	12:00	--	11.0	--	--	0.33	--	--
	08/07/13	13:57	7.41	11.70	0.526	2.0	0.28	0.13	-1

deg C = degrees Celsius
mS/cm = millisiemens per centimeter
NTU = Nephelometric Turbidity Units
mg/L = milligrams per liter
mV = Millivoltes

DO = Dissolved Oxygen
Temp= Temperature
ORP = Oxygen Reduction Potential

[2] = These measurements are considered to be anomalous.

[3] = Prior to May 2012 Ferrous Iron Measurements were collected using HACH Ferrous Iron Color Disc Test Kit. Starting in May 2012 the HACH DR890 was utilized.

[4] = Samples were diluted in the field to get a Ferrous Iron reading.

[5] = DO and temperature collected in flow through cell, not downhole.

[6] = Low well yield prevented collection of certain field parameters.

Table 4
MNA Pilot Study
Geochemical Data
Former BAE Facility
Lansdale, Pennsylvania

			Laboratory Data															
Location ID	**Date**	**Time**	**DOC** mg/L	**Nitrate** mg/L	**Nitrite** mg/L	**Sulfate** mg/L	**TOC** mg/L	**Iron** mg/L	**Ferric Iron** mg/L	**Lactate** mg/L	**Acetate** mg/L	**Prop-ionate** mg/L	**Formate** mg/L	**Butyrate** mg/L	**Pyruvate** mg/L	**Methane** µg/L	**Ethane** µg/L	**Ethene** µg/L
PW-8A (18-46')	08/11/10	10:23	< 0.50	0.50	< 0.015	29.8	0.52 J	0.749	0.75	--	--	--	--	--	--	--	--	--
	09/15/10	0:00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/10	0:00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/16/10	9:25	0.66 J	0.49 [1]	< 0.015 [1]	31.9	1.1	1.72	1.7	--	--	--	--	--	--	--	--	--
	02/15/11	10:58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/03/11	14:32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/22/11	15:40	0.62 J	0.92	< 0.015	30.1	0.65 J	0.0528 J	--	< 0.39	4.9	< 0.31	1.1	< 0.41	< 0.69	< 0.2	< 0.01	0.01
	11/08/11	12:55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/15/12	8:15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/03/12	9:25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/21/12	10:55	0.55 J	0.69	< 0.015	25.4	< 0.5	1.02	--	< 0.39	< 0.54	< 0.31	< 0.22	< 0.41	< 0.69	< 0.2	< 0.01	0.02
	11/15/12	14:25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/07/13	10:05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/09/13	12:09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/13	10:24	< 0.50	0.68	< 0.015	24.9	< 0.50	< 0.0430	--	0.49	1.5	< 0.03	< 0.02	< 0.04	< 0.07	< 0.2	< 0.01	< 0.01
PW-10A (19-50')	08/11/10	11:35	0.51 J	0.21	< 0.015	35.6	0.52 J	< 0.0522	< 0.052	--	--	--	--	--	--	--	--	--
	09/15/10	0:00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/10	0:00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/18/10	12:15	0.53 J	0.48	< 0.015	30.1	< 0.50	0.0645 J	0.064 J	--	--	--	--	--	--	--	--	--
	02/15/11	15:55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/03/11	16:35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/23/11	11:35	0.64 J	2.0	< 0.015	30.2	0.54 J	0.245	--	< 0.39	5.1	< 0.31	1.3	< 0.41	< 0.69	0.3	< 0.01	0.02
	11/09/11	8:40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/15/12	9:40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/03/12	10:40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/21/12	11:22	0.55 J	0.68	< 0.015	25.7	0.53 J	0.0805 J	--	< 0.39	< 0.54	< 0.31	< 0.22	< 0.41	< 0.69	0.3	< 0.01	0.02
	11/15/12	10:00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/07/13	1:25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/10/13	8:49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/13	12:08	< 0.50	0.77	< 0.015	24.7	< 0.50	0.0466 J	--	0.72	1.6	< 0.03	0.88	0.95	< 0.07	< 0.2	< 0.01	< 0.01

Table 4
MNA Pilot Study
Geochemical Data
Former BAE Facility
Lansdale, Pennsylvania

			Laboratory Data															
Location ID	**Date**	**Time**	**DOC** mg/L	**Nitrate** mg/L	**Nitrite** mg/L	**Sulfate** mg/L	**TOC** mg/L	**Iron** mg/L	**Ferric Iron** mg/L	**Lactate** mg/L	**Acetate** mg/L	**Prop-ionate** mg/L	**Formate** mg/L	**Butyrate** mg/L	**Pyruvate** mg/L	**Methane** µg/L	**Ethane** µg/L	**Ethene** µg/L
PW-11	08/11/10	14:30	< 0.50	0.57	< 0.015	34.5	0.51 J	1.68	1.6	--	--	--	--	--	--	--	--	--
(13-80')	09/15/10	0:00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/10	0:00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/18/10	9:20	< 0.50	0.64 [1]	< 0.015 [1]	29.9	< 0.50	0.151 J	0.13 J	--	--	--	--	--	--	--	--	--
	02/08/11	14:35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/03/11	12:21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/22/11	14:25	1.2	0.56	< 0.015	32.5	0.66 J	0.185 J	--	0.52	4.8	< 0.31	1.5	< 0.41	< 0.69	< 0.2	< 0.01	0.01
	11/08/11	12:20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/15/12	8:10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/03/12	9:40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/21/12	9:58	0.66 J	0.53	< 0.015	29.8	0.51 J	0.331	--	< 0.39	< 0.54	< 0.31	0.62	< 0.41	< 0.69	< 0.2	< 0.01	< 0.01
	11/15/12	15:15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/07/13	10:30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/09/13	12:34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/13	10:58	< 0.50	0.57	< 0.015	26.7	< 0.50	0.254	--	0.19	2.1	< 0.03	0.96	1.1	< 0.07	< 0.2	< 0.01	< 0.01
RI-20S	08/11/10	0:00	4.1	0.066 J	< 0.015	35.1	4.1	0.118 J	0.084 J	--	--	--	--	--	--	--	--	--
(70-80')	10/12/10	0:00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/18/10	11:25	< 0.50	1.4	< 0.015	30.5	< 0.50	< 0.0522	< 0.052	--	--	--	--	--	--	--	--	--
	02/08/11	14:35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/15/11	12:32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/04/11	12:40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/23/11	10:55	< 0.5	< 0.8	< 0.015	28.9	0.57 J	0.0222 J	--	< 0.39	7.2	< 0.31	1.0	< 0.41	< 0.69	6.5	0.01	0.01
	11/08/11	13:30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/15/12	9:00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/03/12	10:00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/21/12	18:34	0.5 J	1.3	< 0.015	24.7	< 0.5	0.0907 J	--	1.2	0.62	< 0.31	1.2	< 0.41	< 0.69	7.1	0.01	0.02
	11/15/12	10:35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/07/13	2:15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/10/13	9:39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/13	12:56	< 0.50	1.4	< 0.015	23.6	< 0.50	< 0.0430	--	0.69	2.7	< 0.03	1.2	0.61	1.8	0.7	< 0.01	< 0.01

Table 4
MNA Pilot Study
Geochemical Data
Former BAE Facility
Lansdale, Pennsylvania

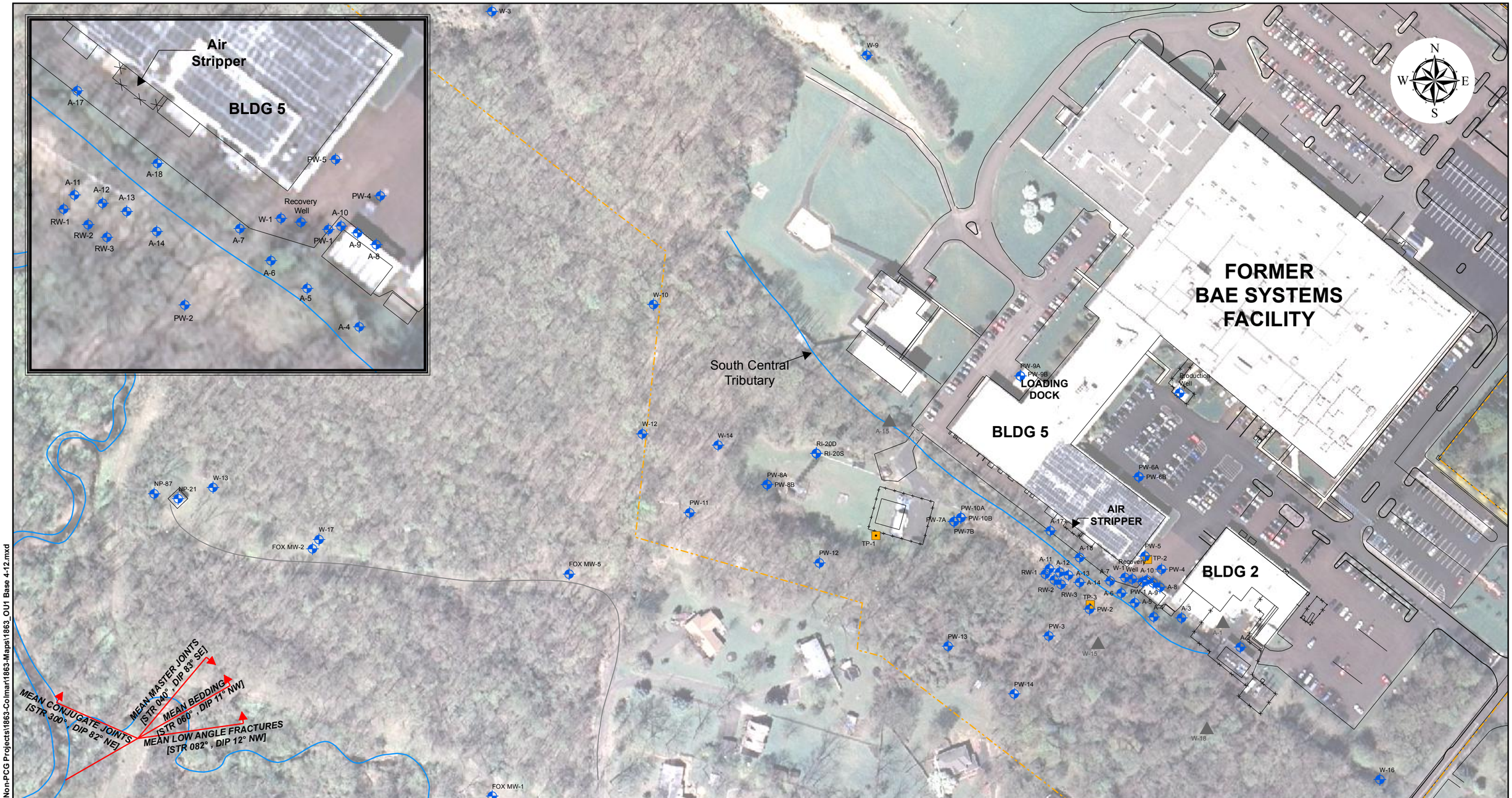
Location ID	Date	Time	Laboratory Data															
			DOC mg/L	Nitrate mg/L	Nitrite mg/L	Sulfate mg/L	TOC mg/L	Iron mg/L	Ferric Iron mg/L	Lactate mg/L	Acetate mg/L	Prop-ionate mg/L	Formate mg/L	Butyrate mg/L	Pyruvate mg/L	Methane µg/L	Ethane µg/L	Ethene µg/L
RW-1 (23-70')	09/15/10	0:00	< 0.50	2.2	< 0.015	23.2	0.81 J	1.35	1.3	--	--	--	--	--	--	--	--	--
	10/12/10	0:00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/18/10	13:25	0.52 J	2.2	< 0.015	18.5	0.51 J	0.601	0.54	--	--	--	--	--	--	--	--	--
	02/16/11	16:25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/04/11	14:30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/23/11	12:20	0.66 J	2.0	< 0.015	16.5	0.76 J	0.912	--	< 0.39	5.5	< 0.31	1.5	< 0.41	< 0.69	0.5	< 0.01	0.04
	11/09/11	10:40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/15/12	12:00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/03/12	12:45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/21/12	13:10	0.64 J	2.3	< 0.015	21.1	0.58 J	0.585	--	< 0.39	< 0.54	< 0.31	< 0.22	< 0.41	< 0.69	0.3	0.01	0.01
	11/15/12	11:00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/06/13	1:45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/08/13	14:24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/13	9:41	< 0.50	2.5	< 0.015	16.9	< 0.50	1.05	--	0.22	1.6	< 0.03	0.91	0.51	0.11	< 0.2	< 0.01	< 0.01
W-1 (9-40')	08/09/10	0:00	2.8	1.8	< 0.015	25.4	3.0	0.553	0.50	--	--	--	--	--	--	--	--	--
	09/15/10	0:00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/10	0:00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/18/10	14:05	2.2	2.0	< 0.015	18.2	2.1	0.254	0.25	--	--	--	--	--	--	--	--	--
	02/07/11	0:00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/05/11	13:45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/23/11	13:00	3.2	1.4 J	< 0.015	32.6	3.4	13.6	--	< 0.39	5.6	< 0.31	1.3	< 0.41	< 0.69	3.6	< 0.01	0.04
	11/09/11	12:50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/15/12	11:10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/03/12	11:59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/21/12	12:08	2.5	1.6	< 0.015	21.1	2.6	5.81	--	< 0.39	< 0.54	< 0.31	< 0.22	< 0.41	< 0.69	< 0.2	< 0.01	0.01
	11/15/12	13:55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/07/13	9:25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/09/13	11:14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/13	9:28	1.8	1.7	< 0.015	17.1	1.6	1.06	--	0.52	1.6	< 0.03	1.1	0.30	< 0.07	< 0.2	< 0.01	0.01

Table 4
MNA Pilot Study
Geochemical Data
Former BAE Facility
Lansdale, Pennsylvania

Location ID	Date	Time	Laboratory Data															
			DOC mg/L	Nitrate mg/L	Nitrite mg/L	Sulfate mg/L	TOC mg/L	Iron mg/L	Ferric Iron mg/L	Lactate mg/L	Acetate mg/L	Prop-ionate mg/L	Formate mg/L	Butyrate mg/L	Pyruvate mg/L	Methane µg/L	Ethane µg/L	Ethene µg/L
W-16 (9-47')	08/09/10	0:00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/18/10	11:20	3.5	1.2	< 0.015	6.2	3.4	0.921	0.72	--	--	--	--	--	--	--	--	--
	02/15/11	17:30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/04/11	11:19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/23/11	10:05	0.92 J	2.9	< 0.015	36.5	0.61 J	1.09	--	0.70	5.6	< 0.31	1.6	< 0.41	< 0.69	< 0.2	< 0.01	< 0.01
	11/10/11	10:35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/15/12	10:20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/03/12	11:18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/21/12	8:36	0.87 J	2.9	< 0.015	34.2	0.62 J	9.00	--	< 0.39	< 0.54	< 0.31	< 0.22	< 0.41	< 0.69	< 0.2	< 0.01	< 0.01
	11/15/12	10:55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/05/13	12:15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/07/13	12:19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/13	8:34	< 0.50	3.1	< 0.015	34.7	< 0.50	3.02	--	0.41	1.3	< 0.03	0.75	0.48	< 0.07	1.8	< 0.01	< 0.01

mg/L = milligrams per liter
µg/L = micrograms per liter
TOC= Total Organic Carbon
DOC= Dissolved Organic Carbon
[1] = The holding time was not met.

FIGURES



Legend

- Monitoring Well
- Test Pit
- Abandoned Well
- Unlocked Well
- Property Line
- Swale
- Stream/Tributary
- Site Road

0 150 300 Feet

Sources:
Aerial photograph from The National Map, March, 2010
Modified based on PASDA Aerial Image
Base Map from Synergy Environmental, Inc.
Base Map from Metz Engineers Survey
Mean bedding, low-angle fracture, and high-angle fracture strike and dip from downhole OTV survey (ARM GEOPHYSICS, Feb. 2007)

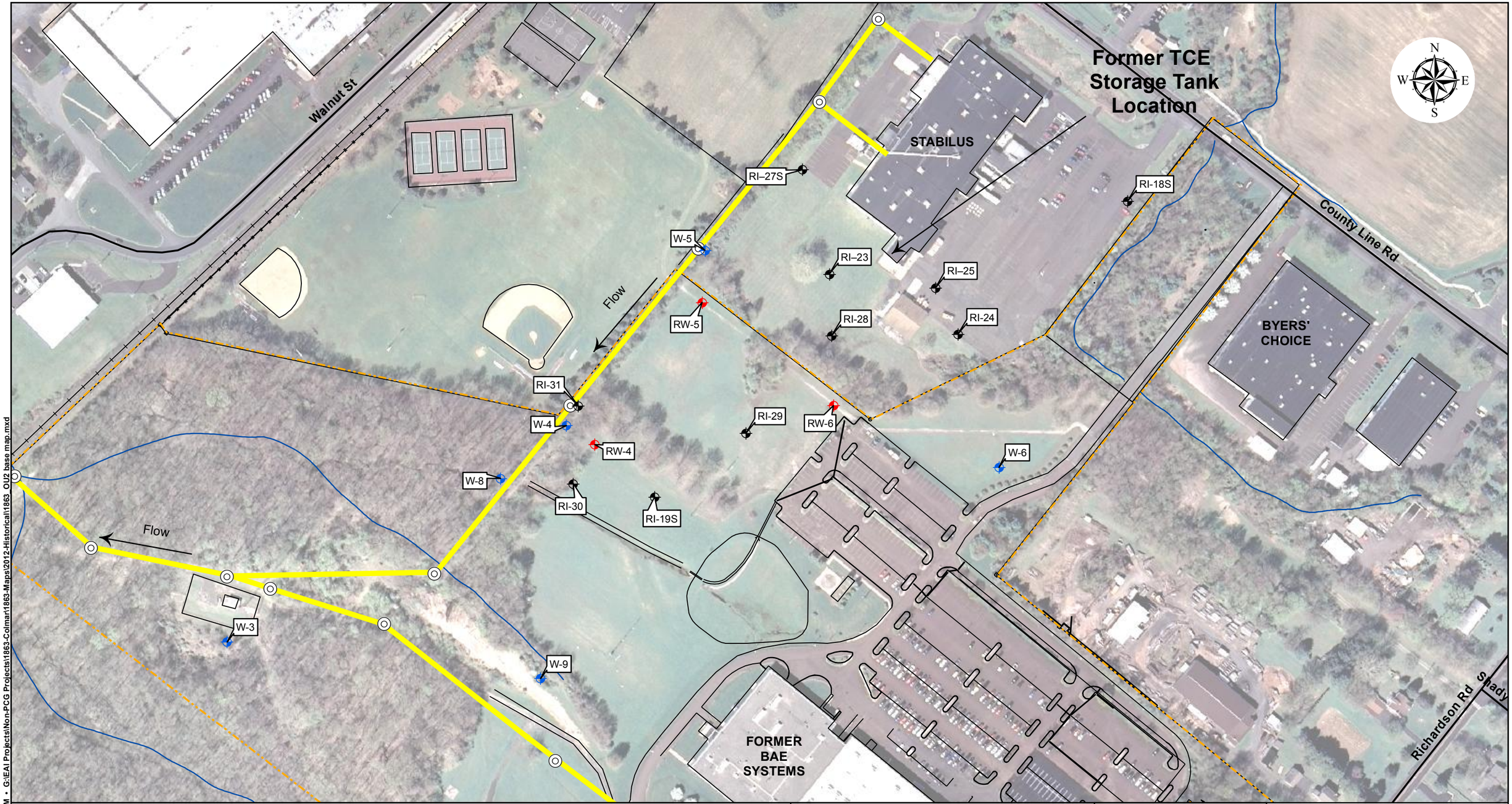
Environmental Alliance, Inc.
5341 Limestone Road, Wilmington, DE 19808
Phone: (302) 234-4400 - Fax: (302)234-1535

NORTH PENN AREA 5 SUPERFUND SITE
BUCKS AND MONTGOMERY COUNTIES, PA
OU-1 (BAE)

OU-1 Area Map

DESIGNED BY:	DRAWN BY:	UPDATED BY:	FIGURE NO.:
JSE	SKJ	-- --	1
APPROVED BY:	PROJECT NO.: 1863	DATE: 04/17/2012	

11/08/13 9:54:22 AM • G:\EAI Projects\Non-PCG Projects\1863-Colmar\1863-Maps\1863_OU1 Base 4-12.mxd



Thursday, April 5, 2012 2:29:12 PM - G:\EAI Projects\Non-PCG Projects\1863-Colmar\1863-Maps\2012-Historical\1863_OU2 base map.mxd

Legend

- W - Series Monitoring Well
- RI Monitoring Well
- RW Monitoring Well
- Sewer Manholes
- Road
- Sanitary Sewer Line
- Railroad Tracks
- Tributary
- Property Line

0 180 360 Feet

Notes:
- Sewer Line & manhole locations are approximate.

Sources:
- Modified based on PASDA Aerial Image
- Aerial photograph from The National Map, March, 2010
- Base Map from Synergy Environmental, Inc.
- Base Map from Metz Engineers Survey

Environmental Alliance, Inc.
5341 Limestone Road, Wilmington, DE 19808
Phone: (302) 234-4400 - Fax: (302)234-1535

NORTH PENN AREA 5 SUPERFUND SITE
BUCKS AND MONTGOMERY COUNTIES, PA
OU-2 (BAE)

OU-2 Area Map

DESIGNED BY:	DRAWN BY:	UPDATED BY:	FIGURE NO.:
PM	SKJ	-- --	2
APPROVED BY:	PROJECT NO.: 1863	DATE: 04/05/2012	

Figure 3
Daily Mean DTW - USGS Observation Well MG-917, Montgomery County, PA

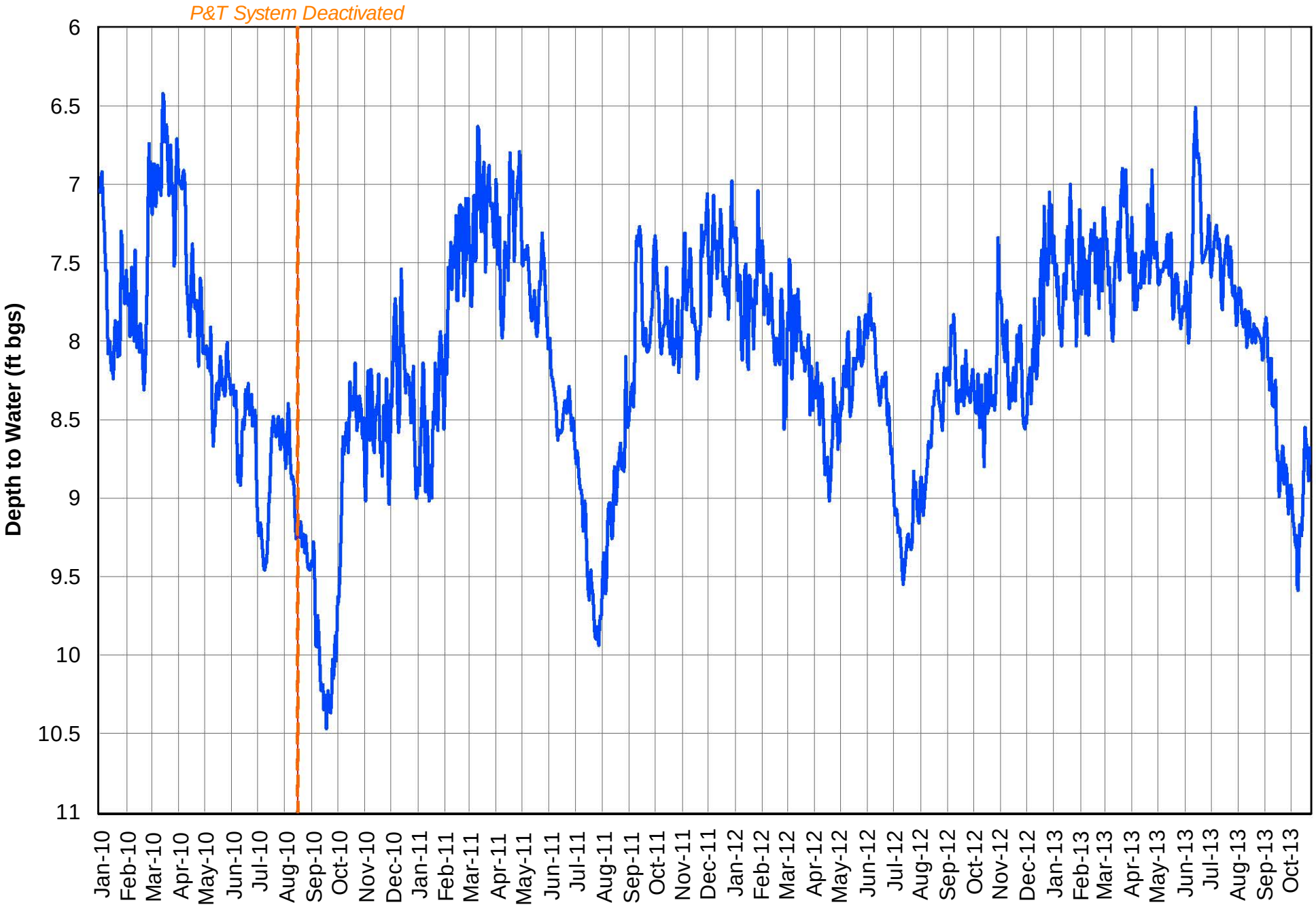


Figure 4
Precipitation at NOAA Weather Station - Conshohocken, PA

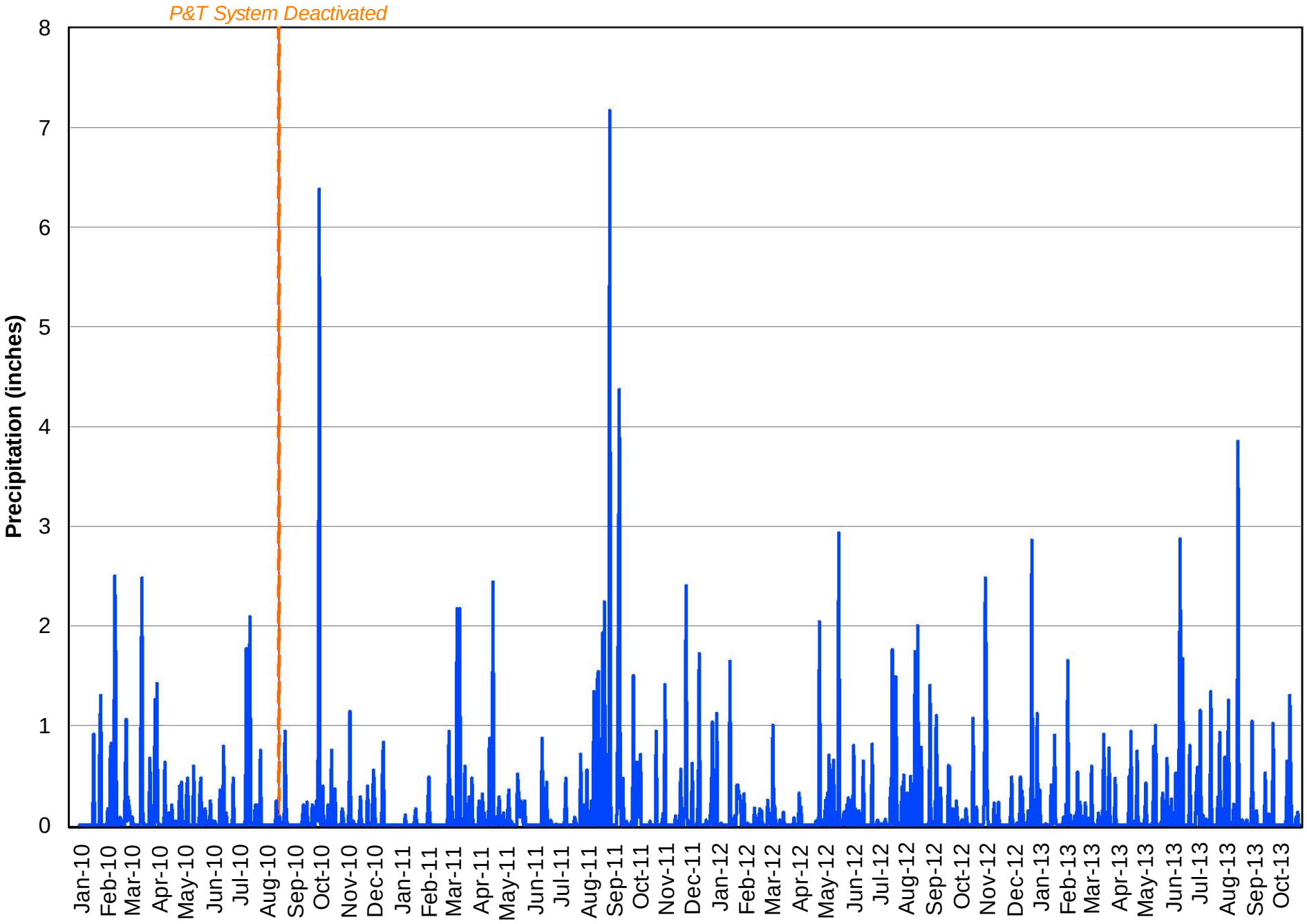


Figure 5
Daily Mean Discharge - Neshaminy Creek Near Rushland, PA (USGS 01464750)

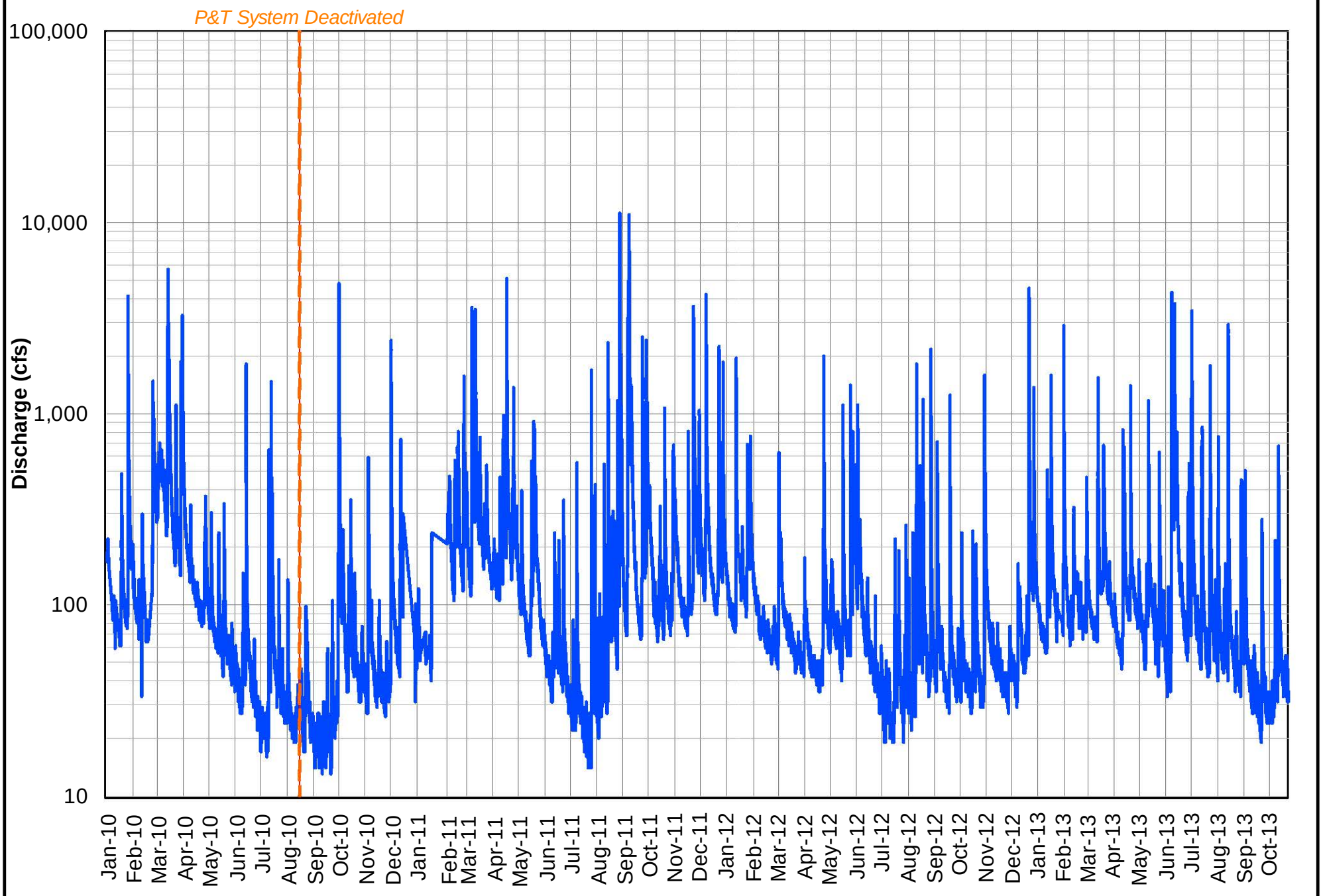
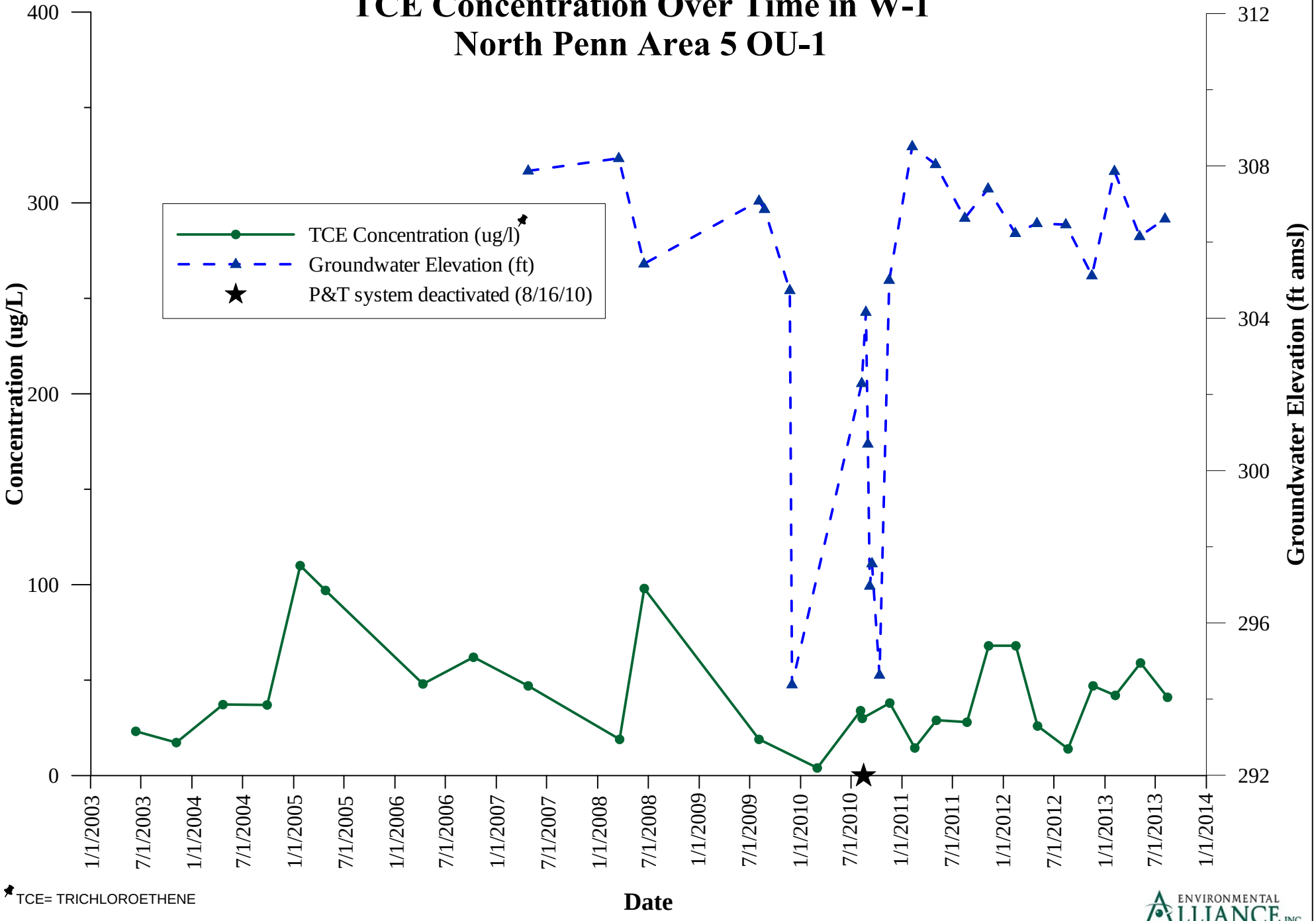


Figure 6A
TCE Concentration Over Time in W-1
North Penn Area 5 OU-1

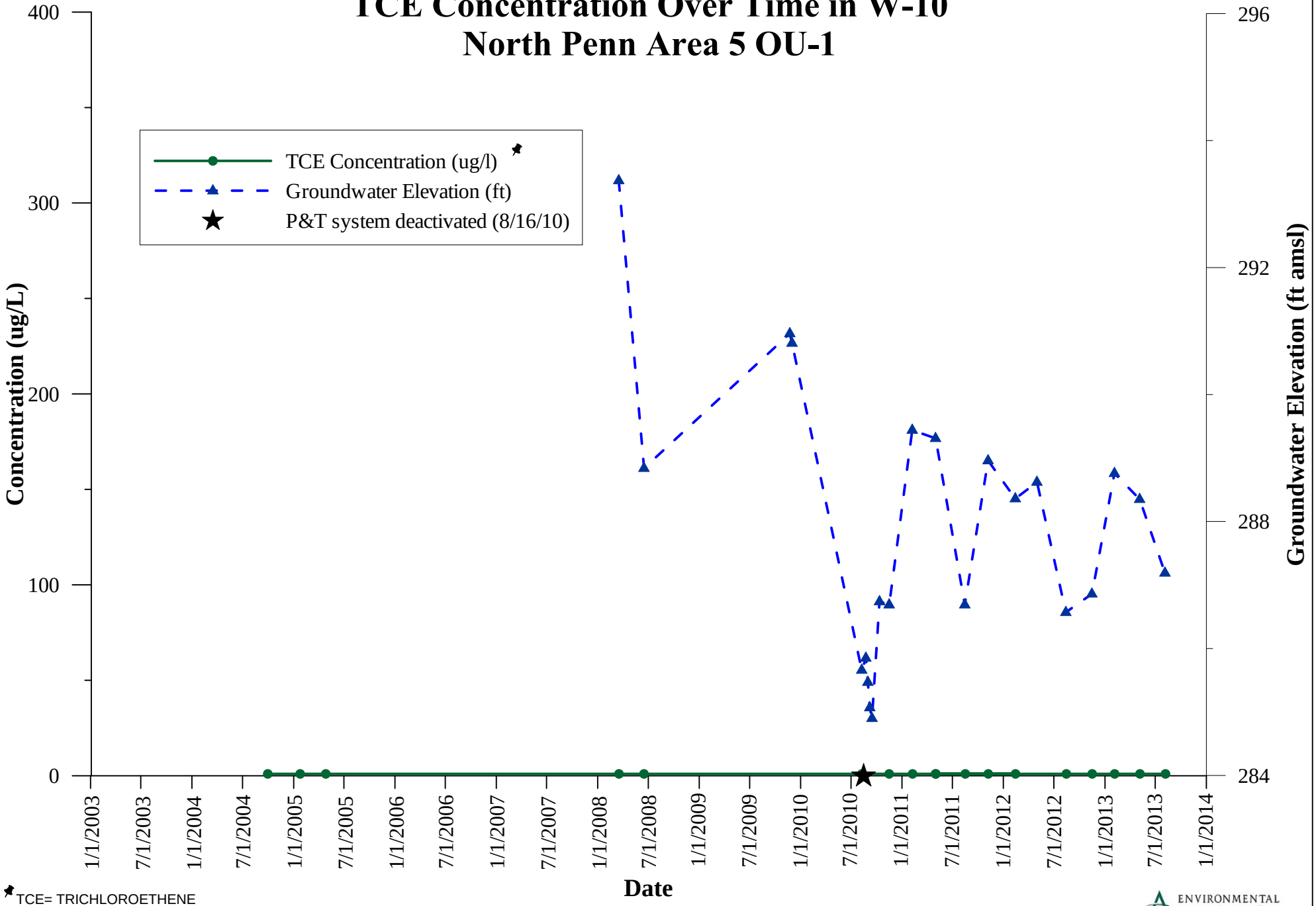


*TCE= TRICHLOROETHENE

J:\EAI files\1863 North Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE, INC.

Figure 6B
TCE Concentration Over Time in W-10
North Penn Area 5 OU-1

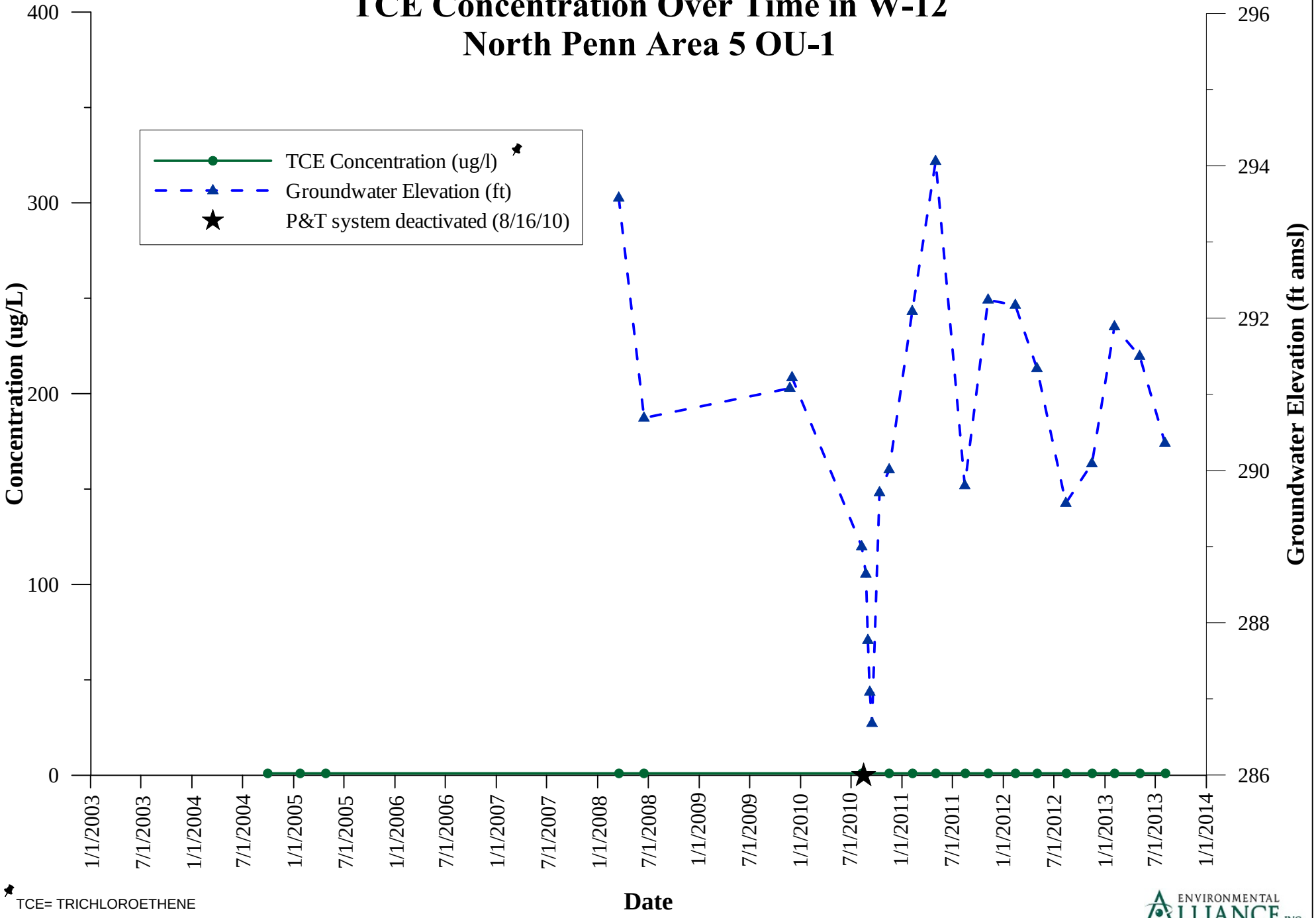


TCE= TRICHLOROETHENE

J:\EAI_files\1863_North_Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE, INC.

Figure 6C
TCE Concentration Over Time in W-12
North Penn Area 5 OU-1

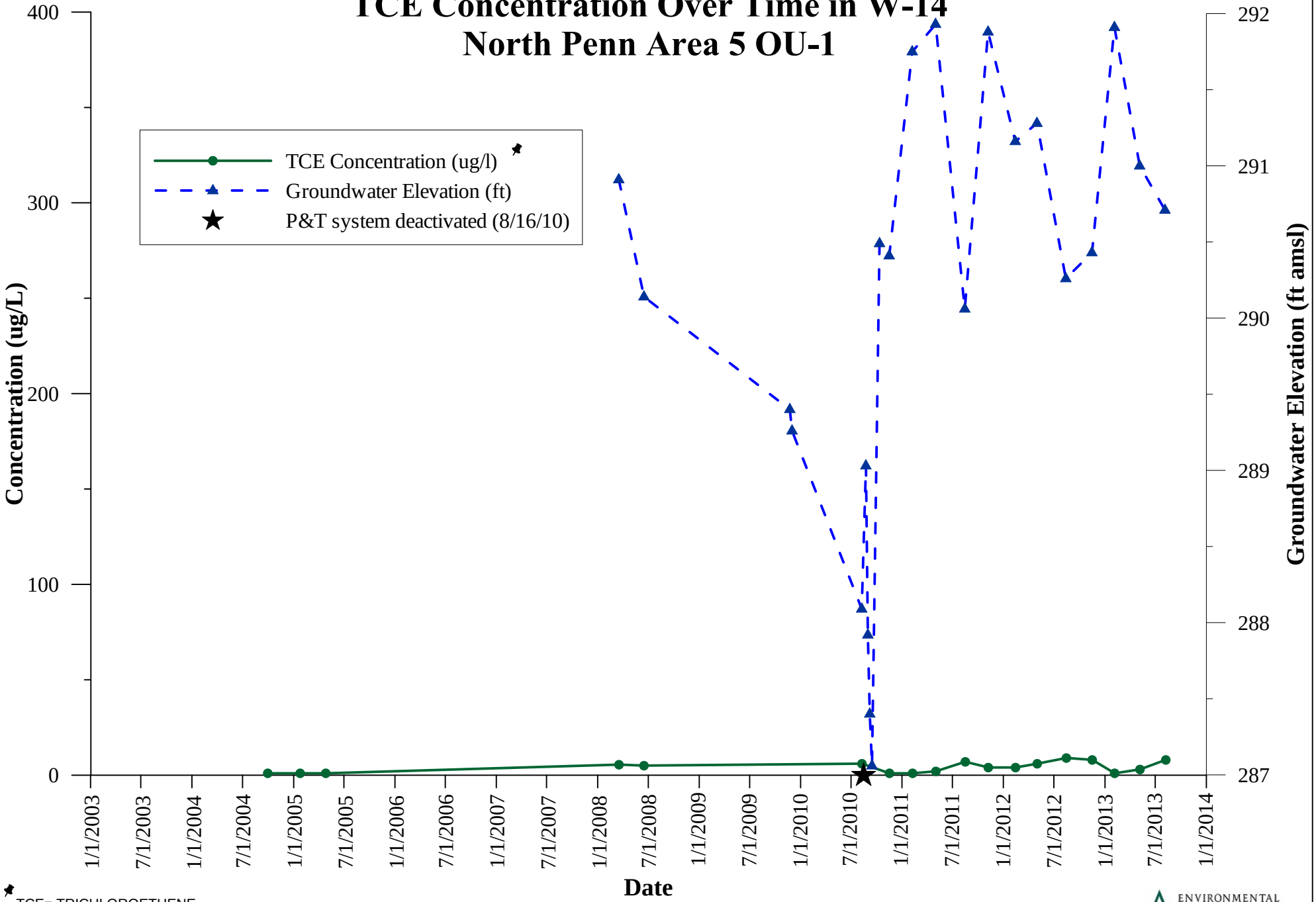


TCE= TRICHLOROETHENE

J:\EAI_files\1863_North_Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE, INC.

Figure 6D
TCE Concentration Over Time in W-14
North Penn Area 5 OU-1

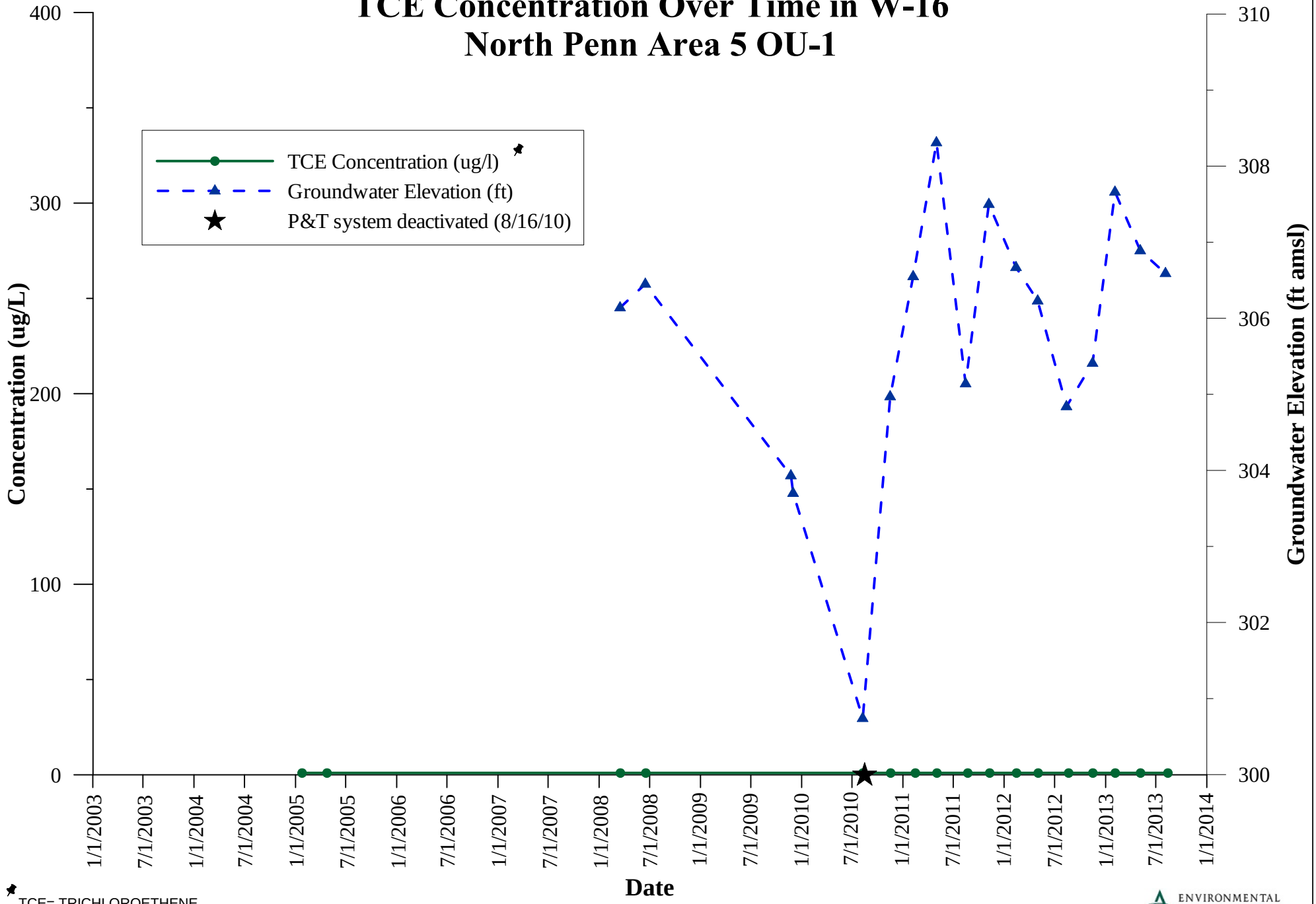


TCE= TRICHLOROETHENE

J:\EAI files\1863 North Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE, INC.

Figure 6E
TCE Concentration Over Time in W-16
North Penn Area 5 OU-1

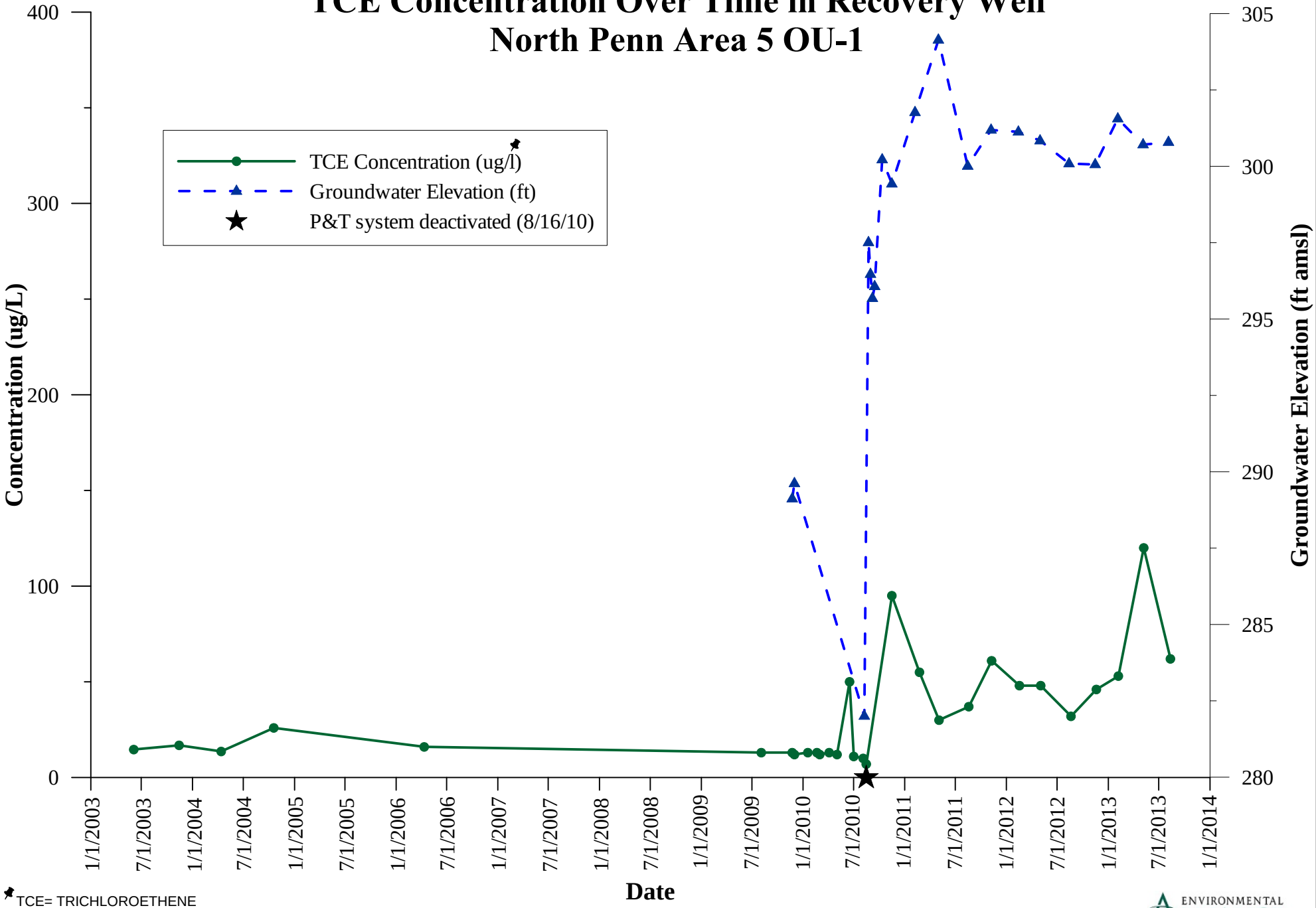


TCE= TRICHLOROETHENE

J:\EAI_files\1863_North_Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE, INC.

Figure 6F
TCE Concentration Over Time in Recovery Well
North Penn Area 5 OU-1

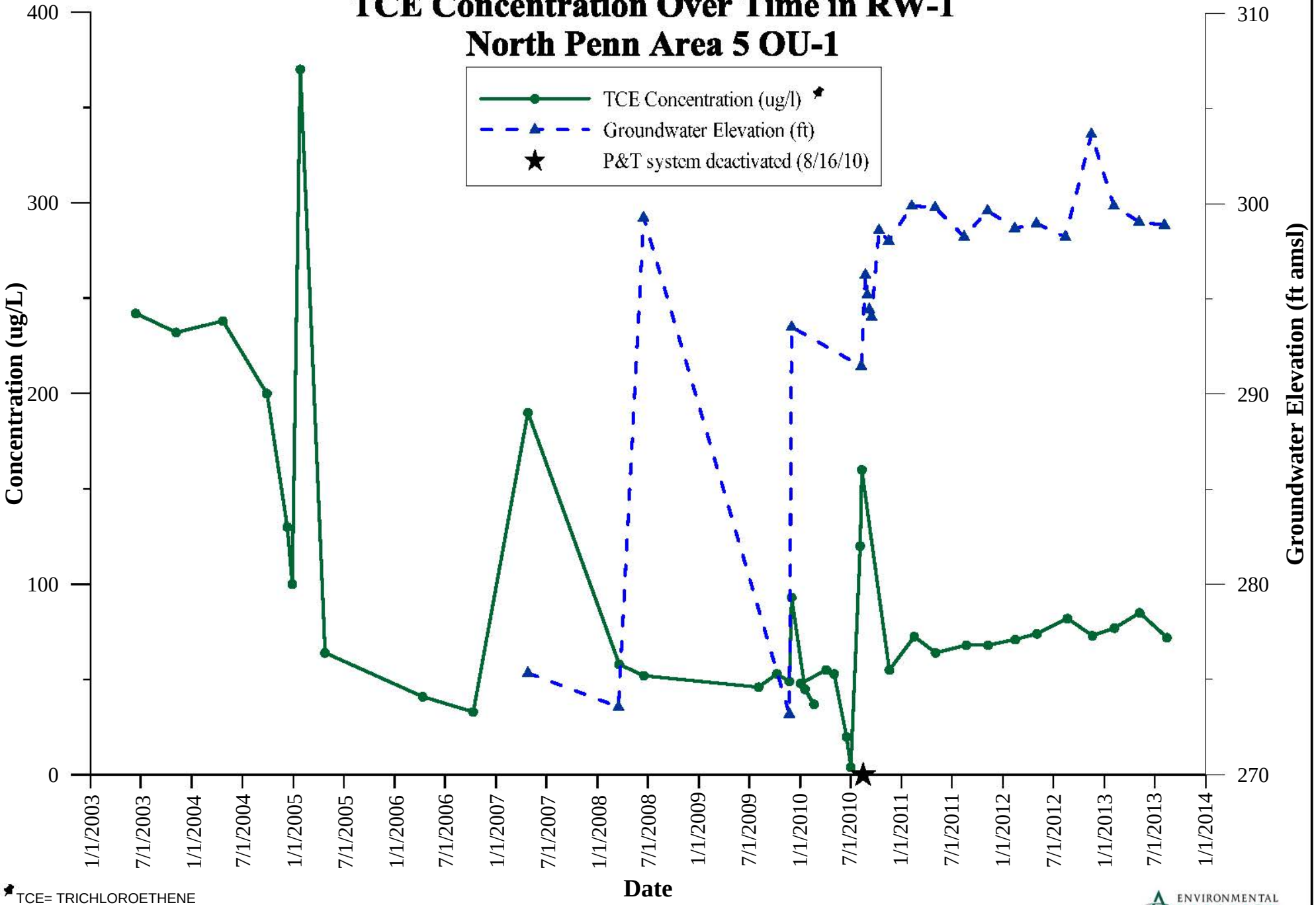


*TCE= TRICHLOROETHENE

J:\EAI_files\1863_North_Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE, INC.

Figure 6G
TCE Concentration Over Time in RW-1
North Penn Area 5 OU-1

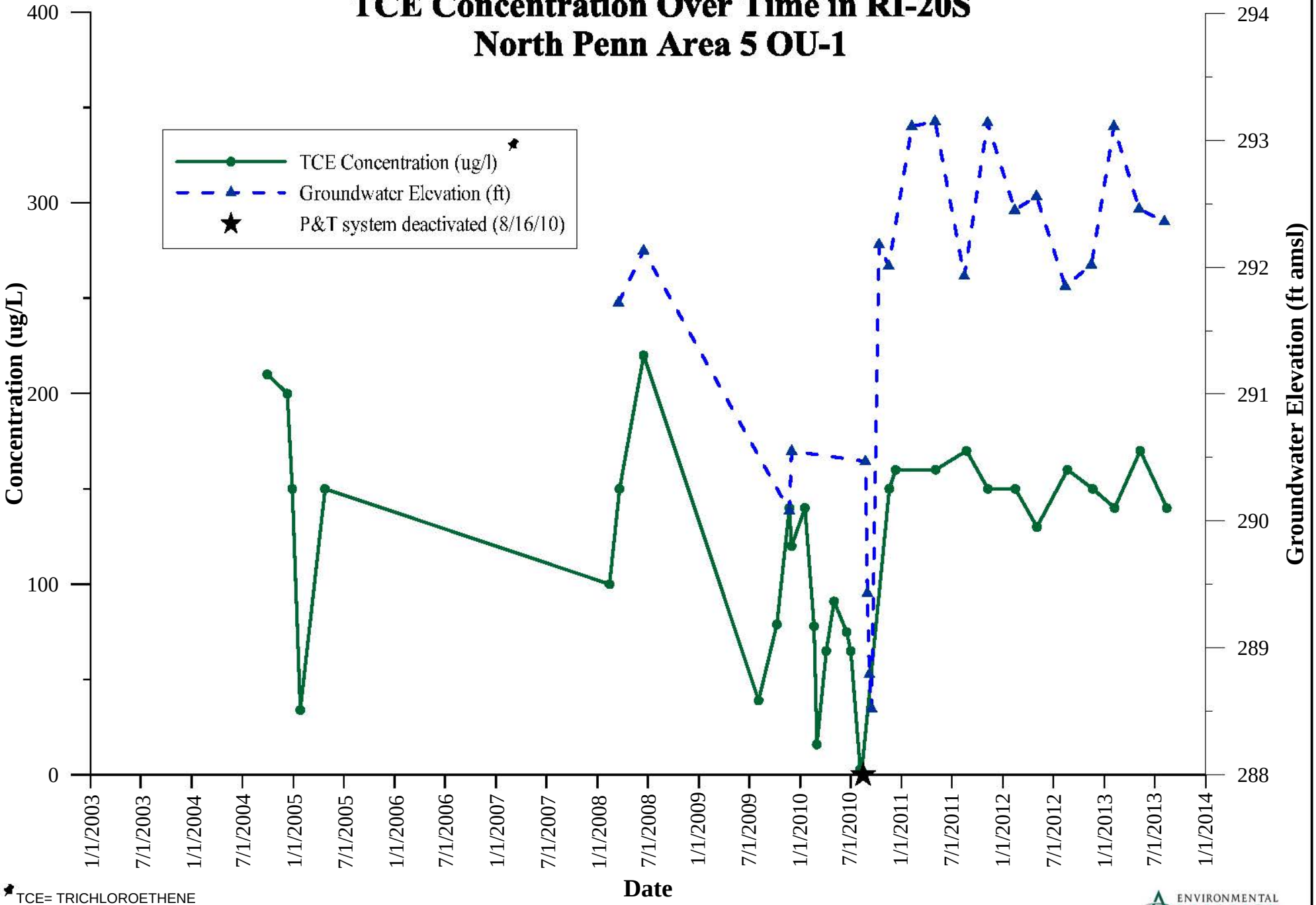


*TCE= TRICHLOROETHENE

J:\EAI_files\1863_North_Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE, INC.

Figure 6H
TCE Concentration Over Time in RI-20S
North Penn Area 5 OU-1

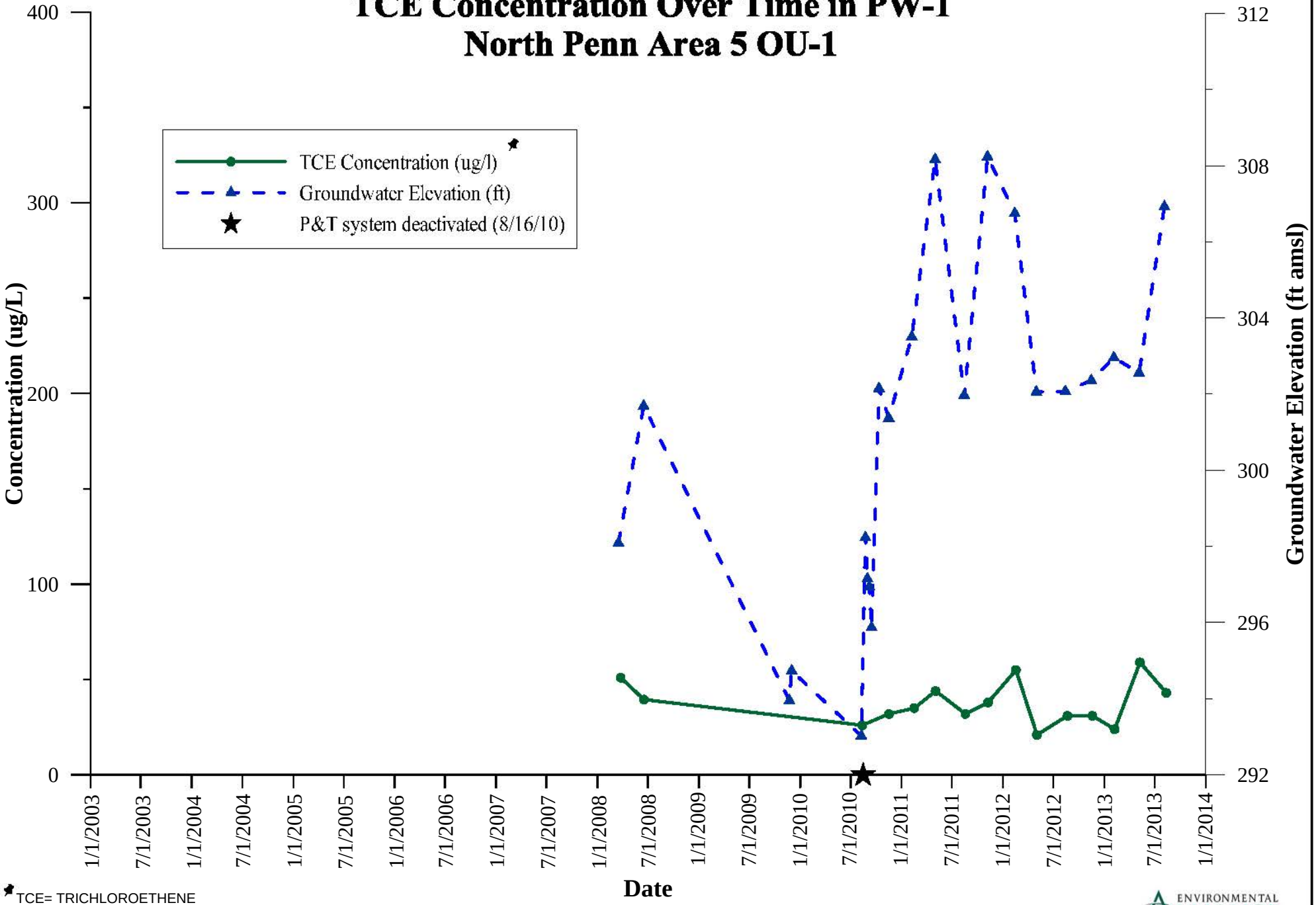


*TCE= TRICHLOROETHENE

J:\EAI_files\1863_North_Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE, INC.

Figure 6I
TCE Concentration Over Time in PW-1
North Penn Area 5 OU-1

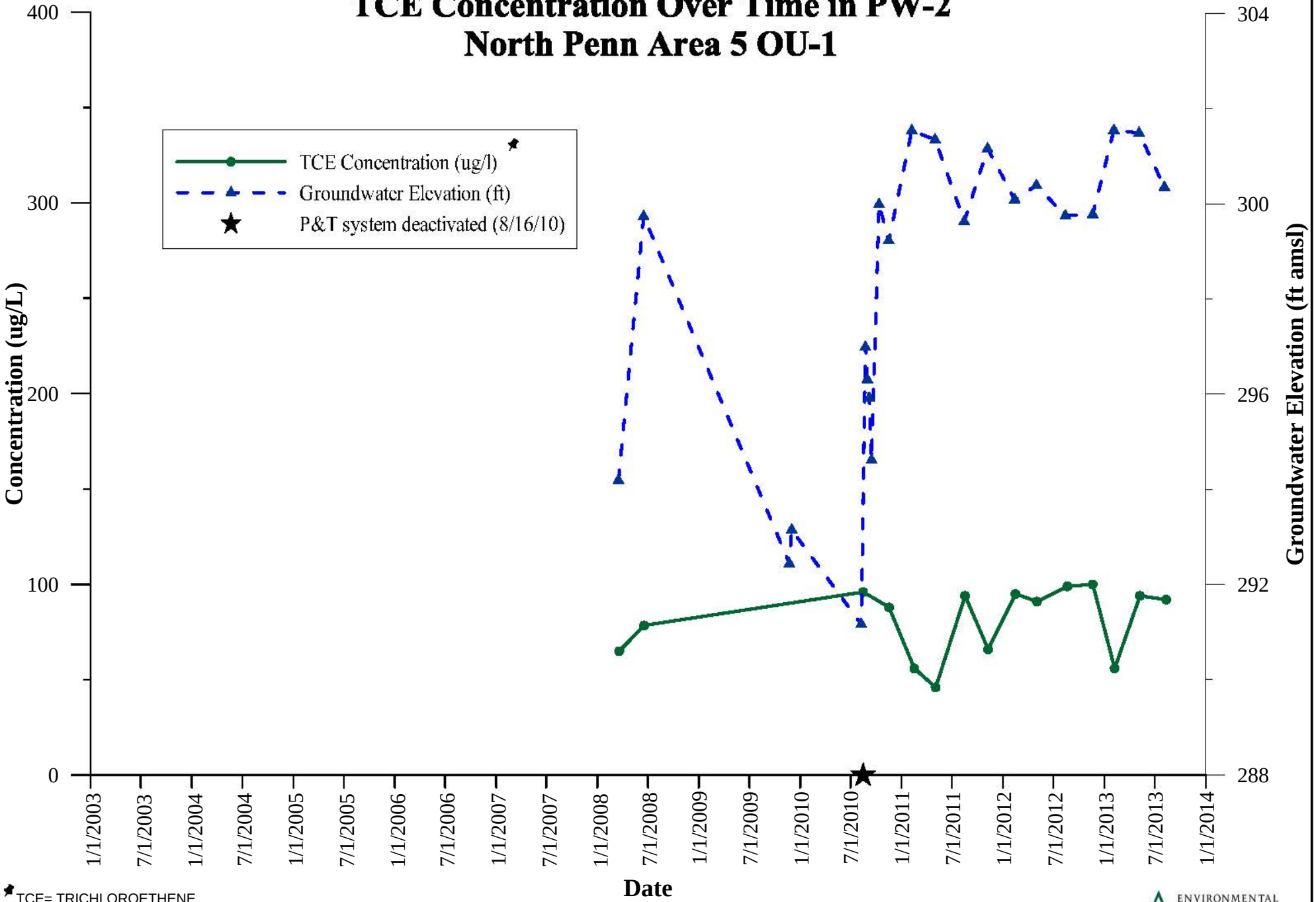


*TCE= TRICHLOROETHENE

J:\EAI_files\1863_North_Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE, INC.

Figure 6J
TCE Concentration Over Time in PW-2
North Penn Area 5 OU-1

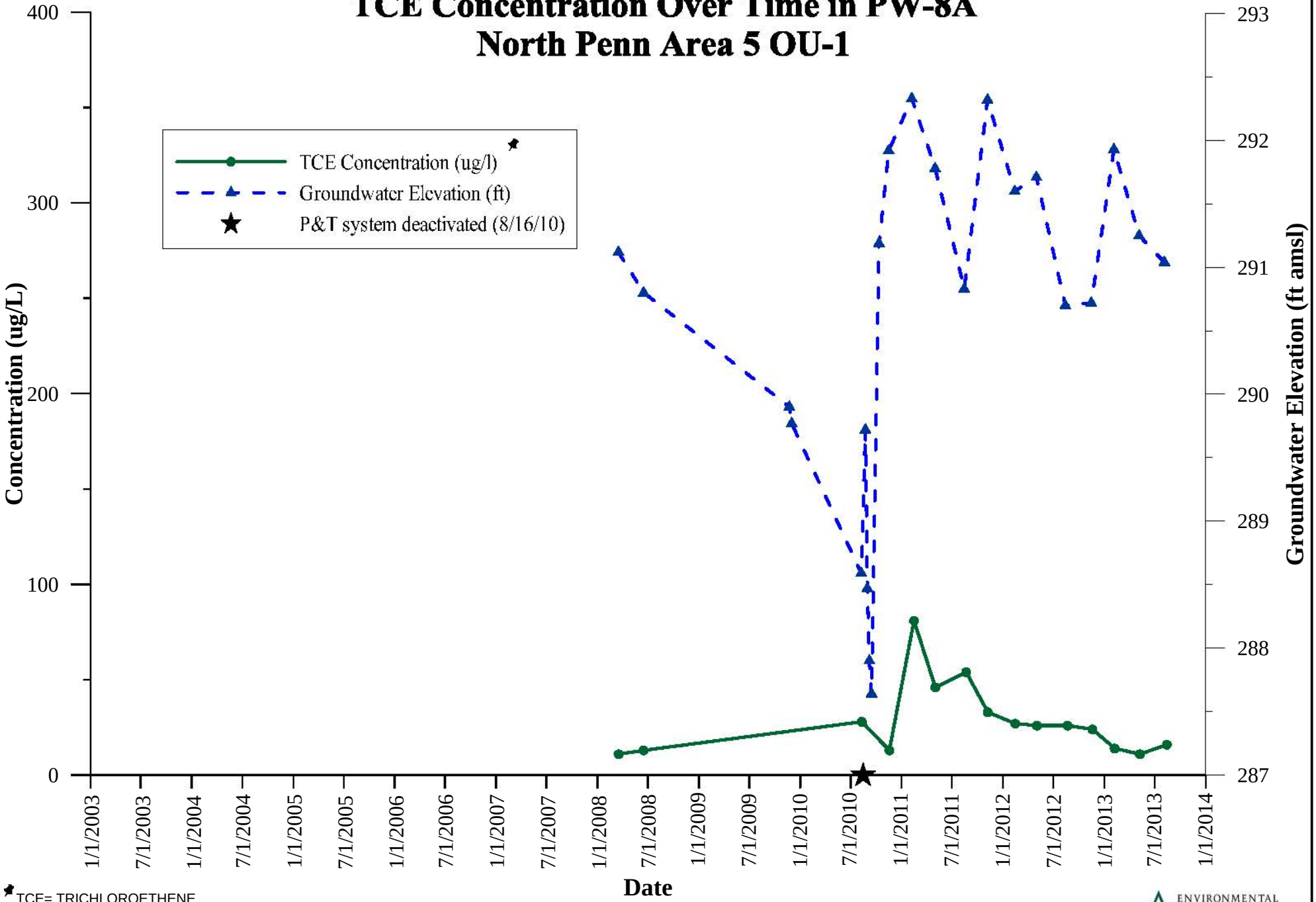


*TCE= TRICHLOROETHENE

J:\EAI_files\1863_North_Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE, INC.

Figure 6K
TCE Concentration Over Time in PW-8A
North Penn Area 5 OU-1

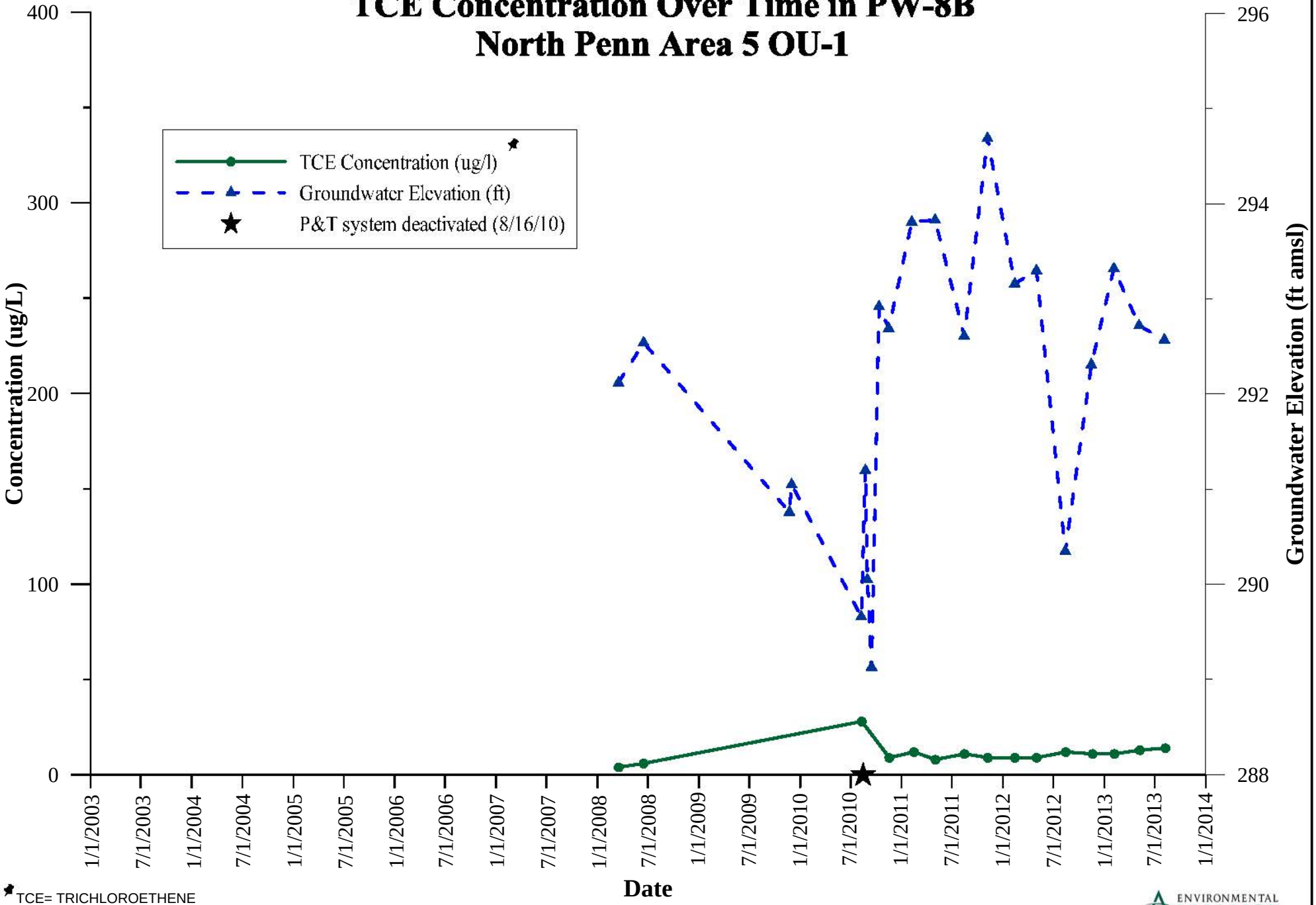


*TCE= TRICHLOROETHENE

J:\EAI_files\1863_North_Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE, INC.

Figure 6L
TCE Concentration Over Time in PW-8B
North Penn Area 5 OU-1

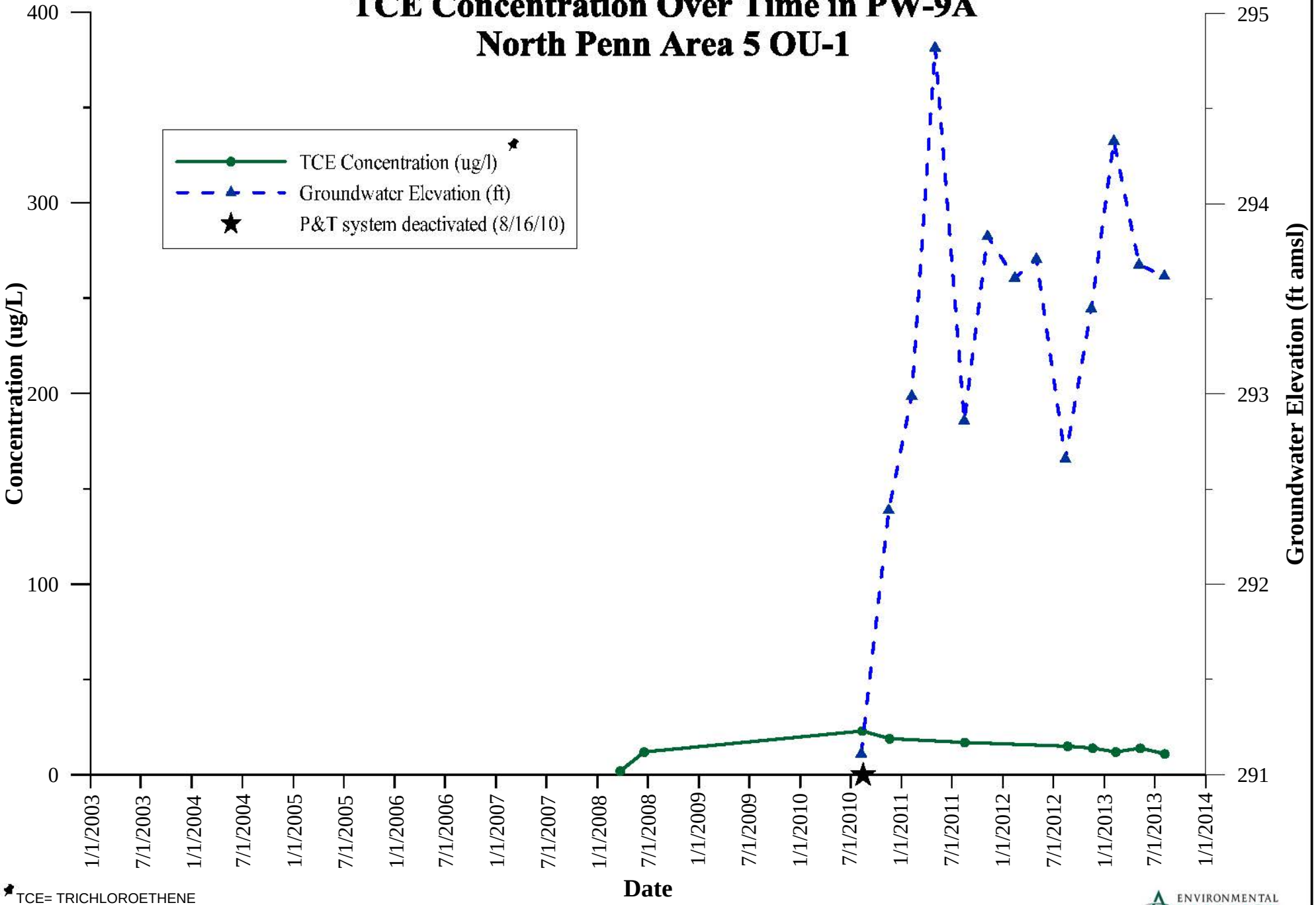


*TCE= TRICHLOROETHENE

J:\EAI_files\1863_North_Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE, INC.

Figure 6M
TCE Concentration Over Time in PW-9A
North Penn Area 5 OU-1

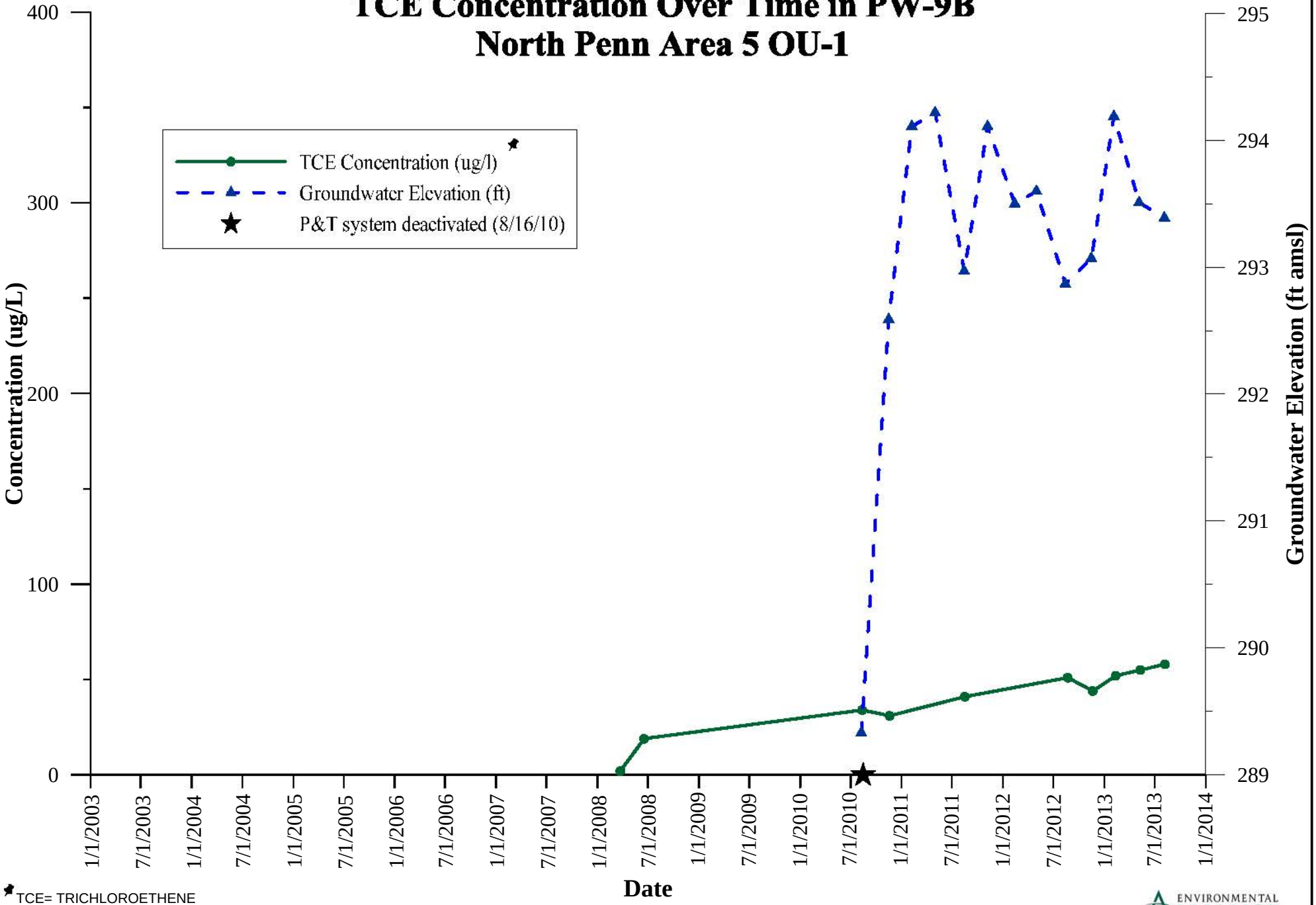


*TCE= TRICHLOROETHENE

J:\EAI_files\1863_North_Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE, INC.

Figure 6N
TCE Concentration Over Time in PW-9B
North Penn Area 5 OU-1

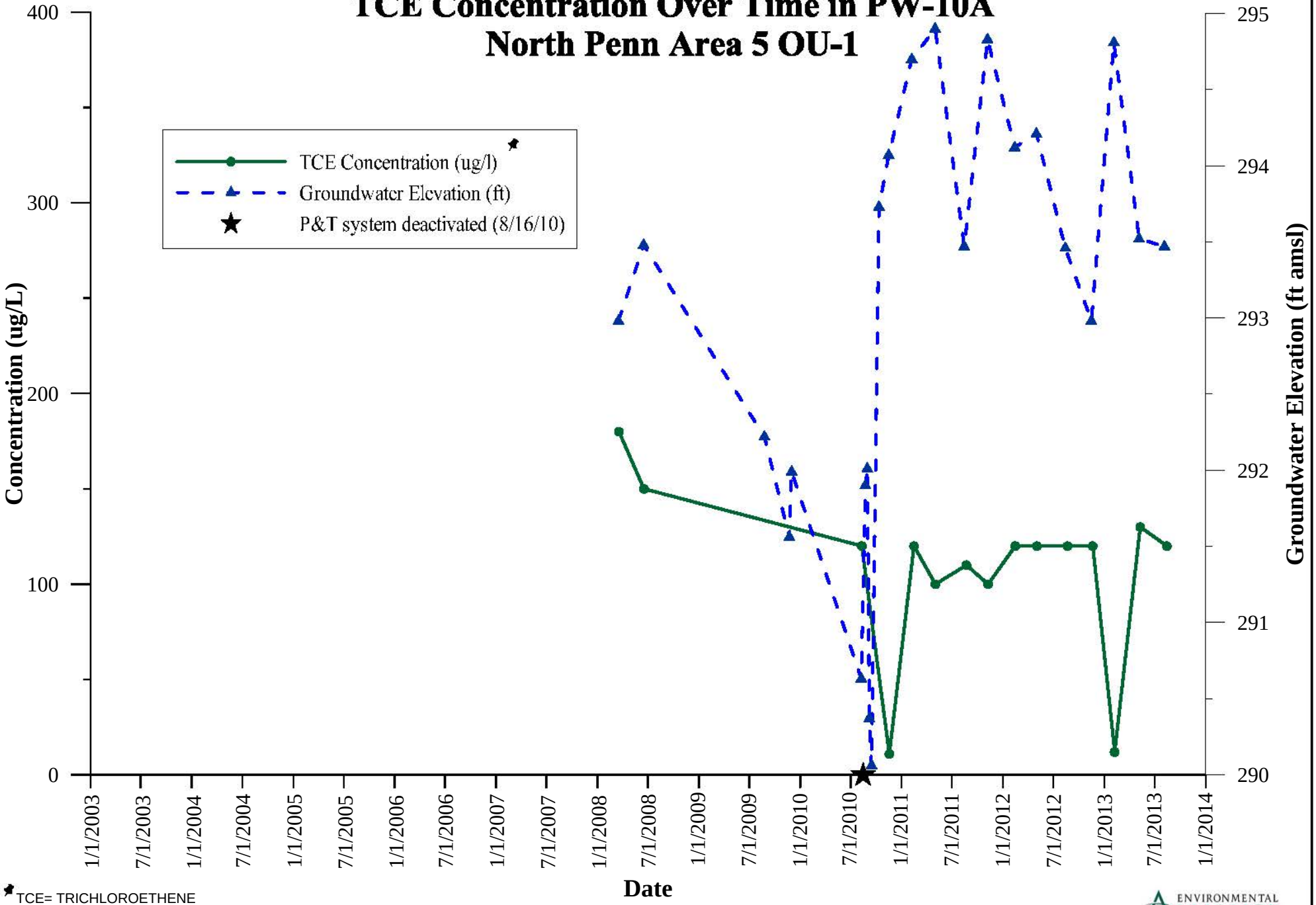


*TCE= TRICHLOROETHENE

J:\EAI_files\1863_North_Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE, INC.

Figure 6O
TCE Concentration Over Time in PW-10A
North Penn Area 5 OU-1

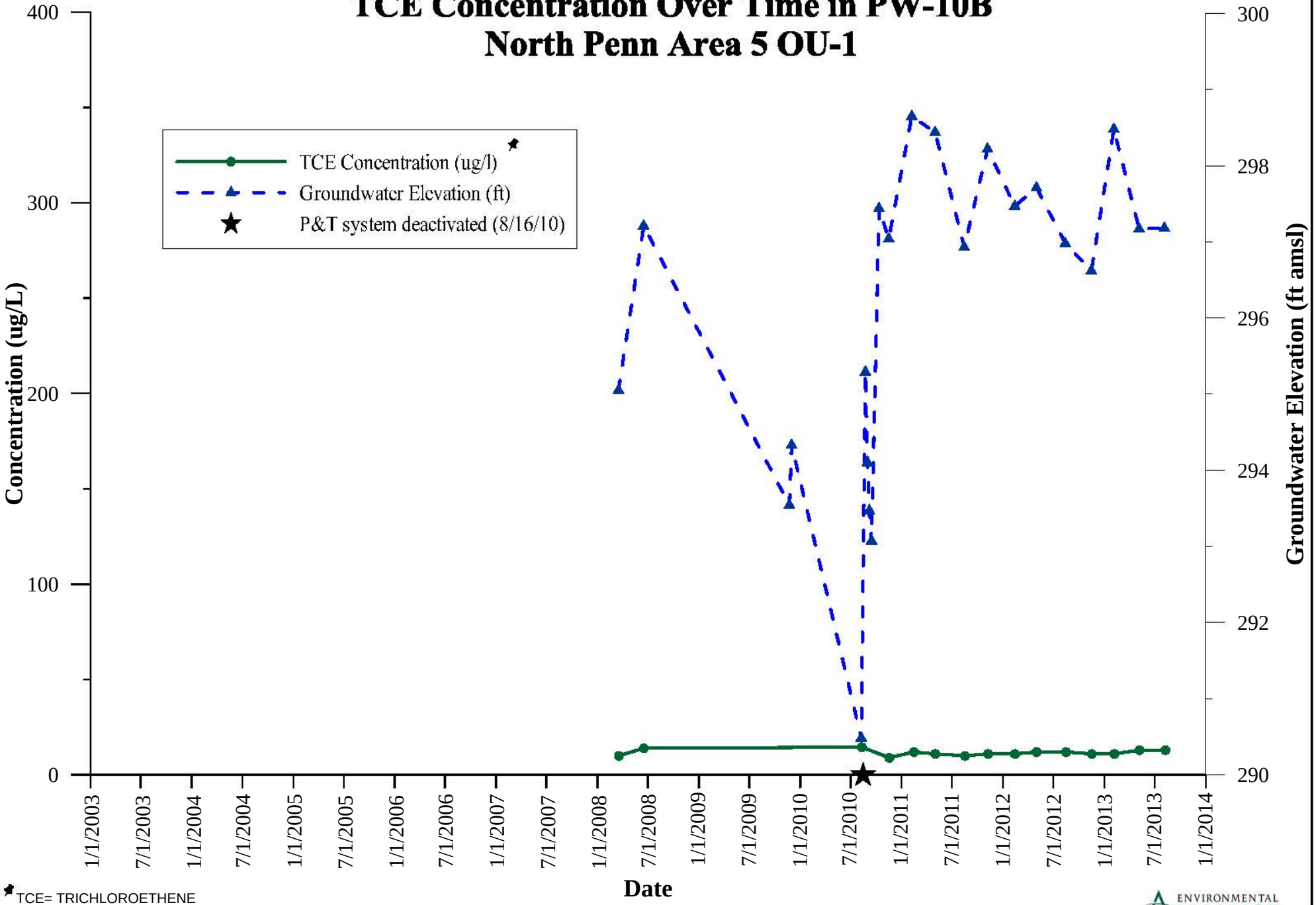


*TCE= TRICHLOROETHENE

J:\EAI_files\1863_North_Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE, INC.

Figure 6P
TCE Concentration Over Time in PW-10B
North Penn Area 5 OU-1

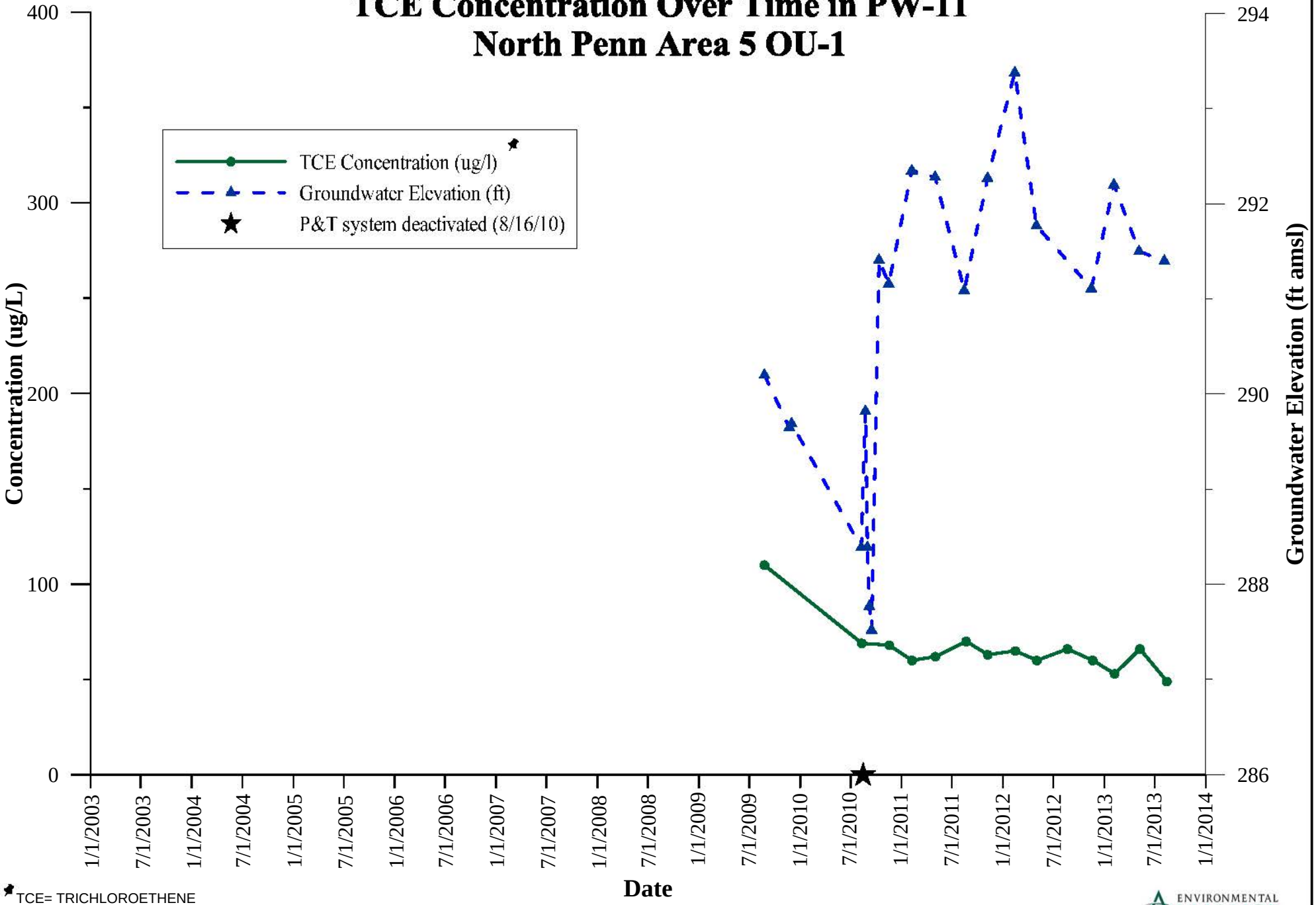


*TCE= TRICHLOROETHENE

J:\EAI_files\1863_North_Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE, INC.

Figure 6Q
TCE Concentration Over Time in PW-11
North Penn Area 5 OU-1

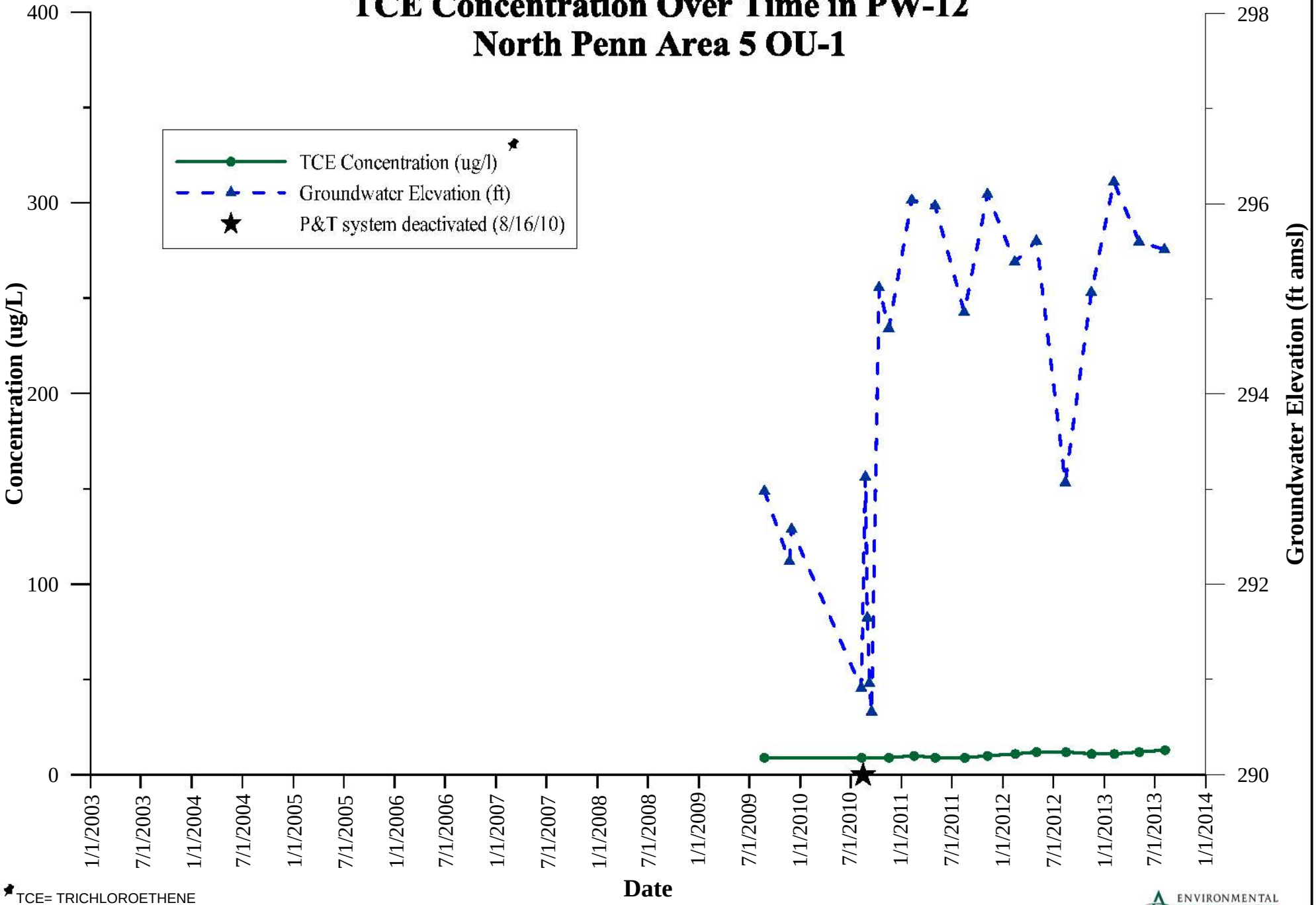


*TCE= TRICHLOROETHENE

J:\EAI_files\1863_North_Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE, INC.

Figure 6R
TCE Concentration Over Time in PW-12
North Penn Area 5 OU-1

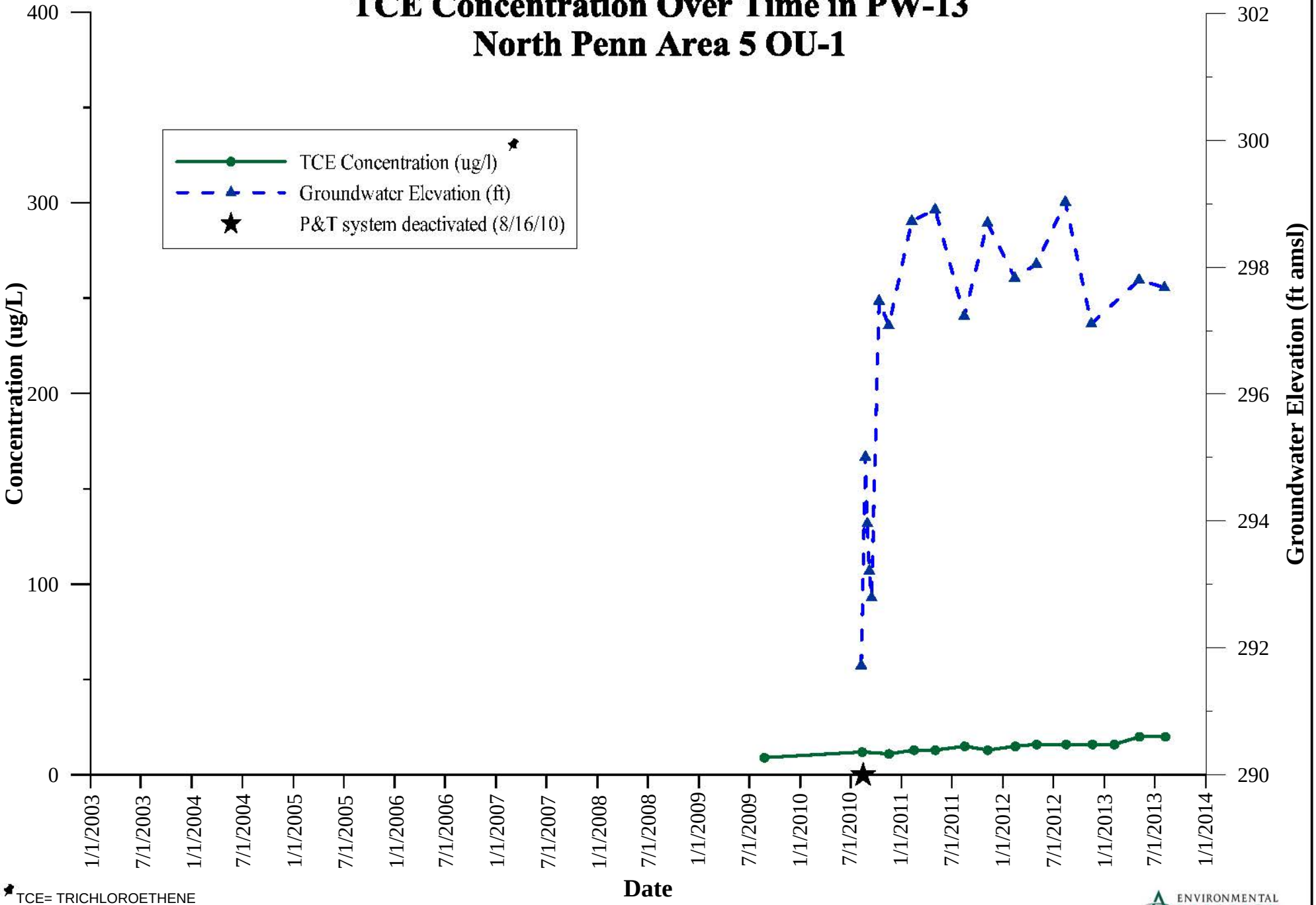


*TCE= TRICHLOROETHENE

J:\EAI_files\1863_North_Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE, INC.

Figure 6S
TCE Concentration Over Time in PW-13
North Penn Area 5 OU-1

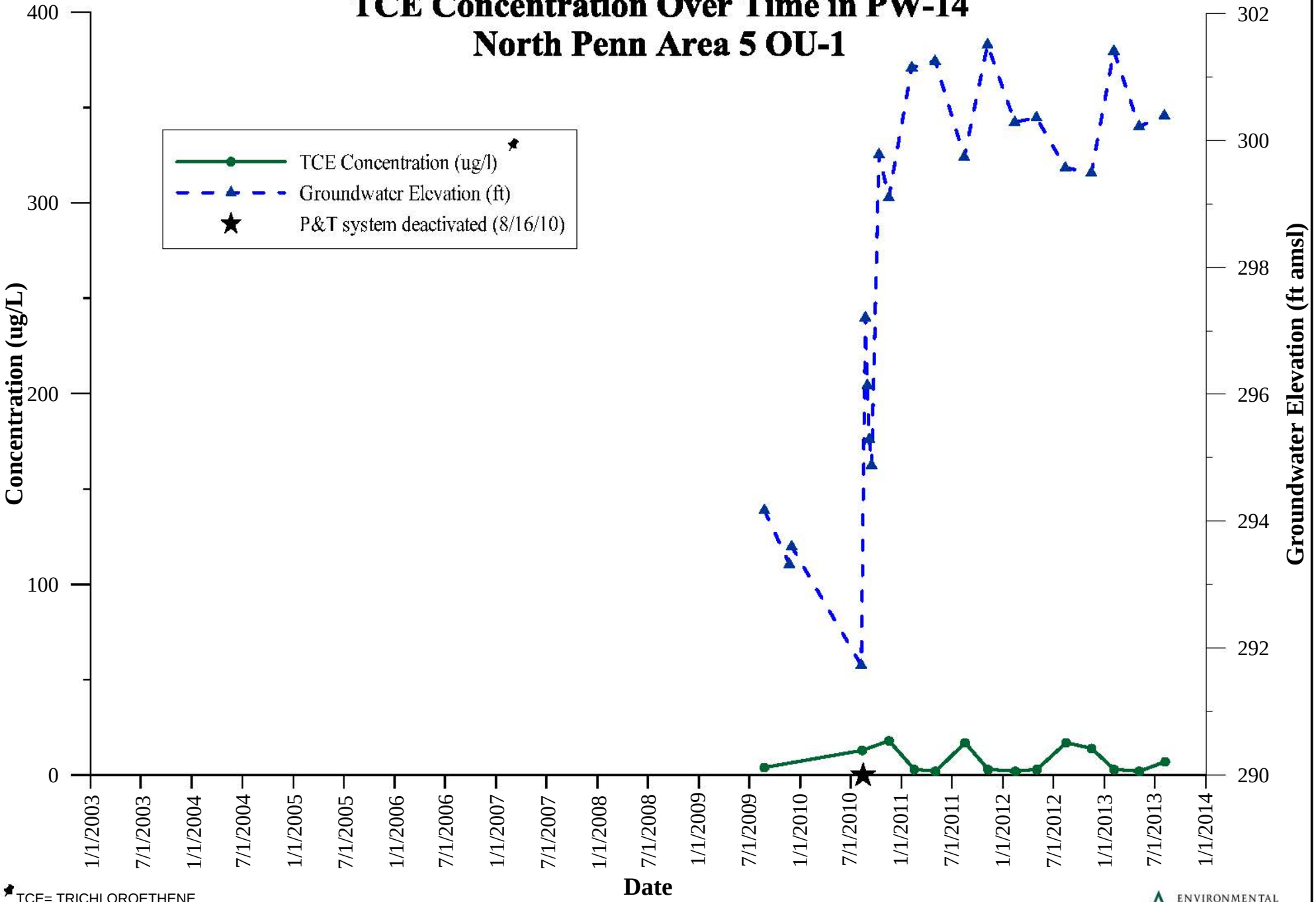


*TCE= TRICHLOROETHENE

J:\EAI_files\1863_North_Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE, INC.

Figure 6T
TCE Concentration Over Time in PW-14
North Penn Area 5 OU-1

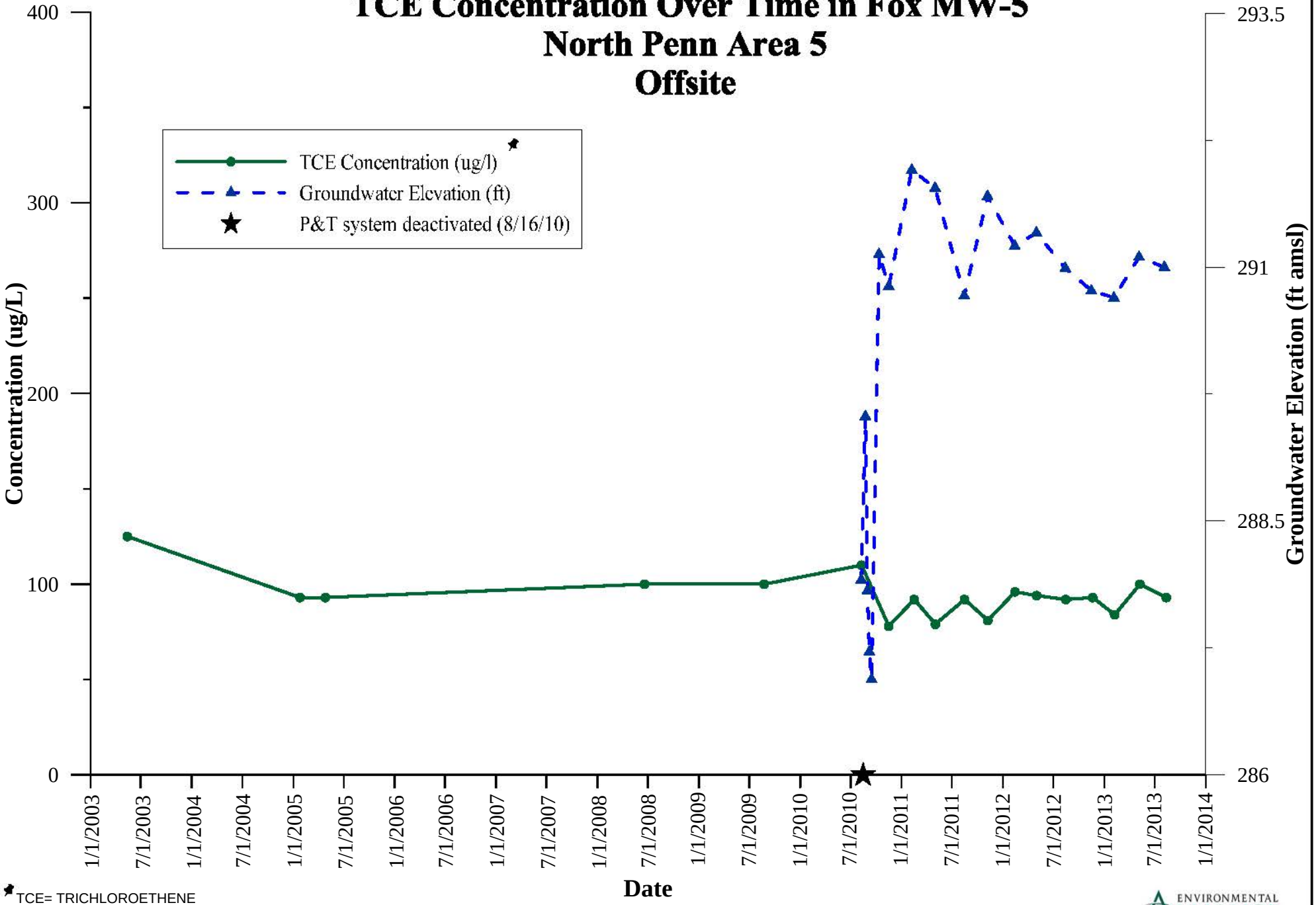


*TCE= TRICHLOROETHENE

J:\EAI_files\1863_North_Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE, INC.

Figure 6U
TCE Concentration Over Time in Fox MW-5
North Penn Area 5
Offsite

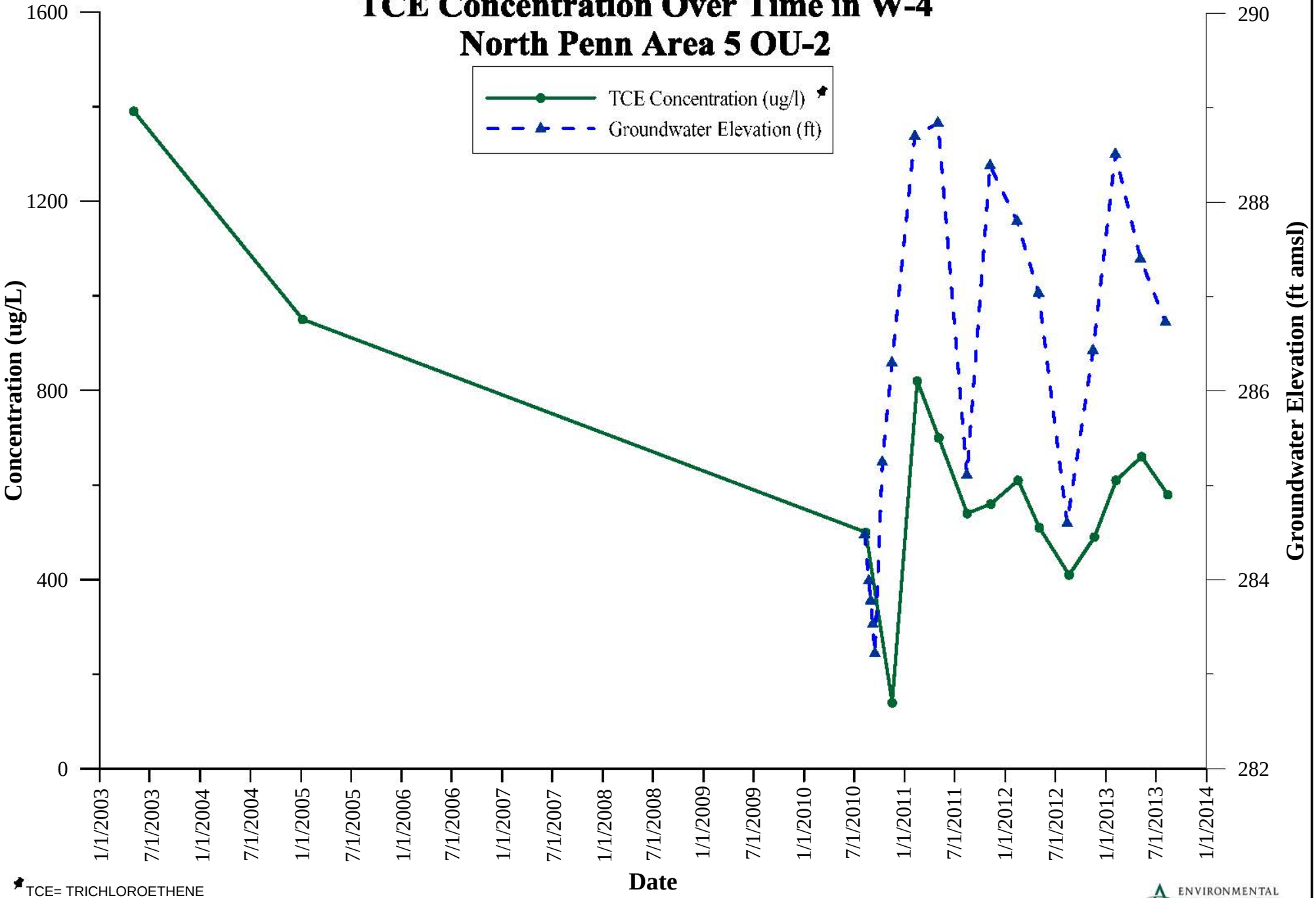


*TCE= TRICHLOROETHENE

J:\EAI_files\1863_North_Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE INC.

Figure 6V
TCE Concentration Over Time in W-4
North Penn Area 5 OU-2

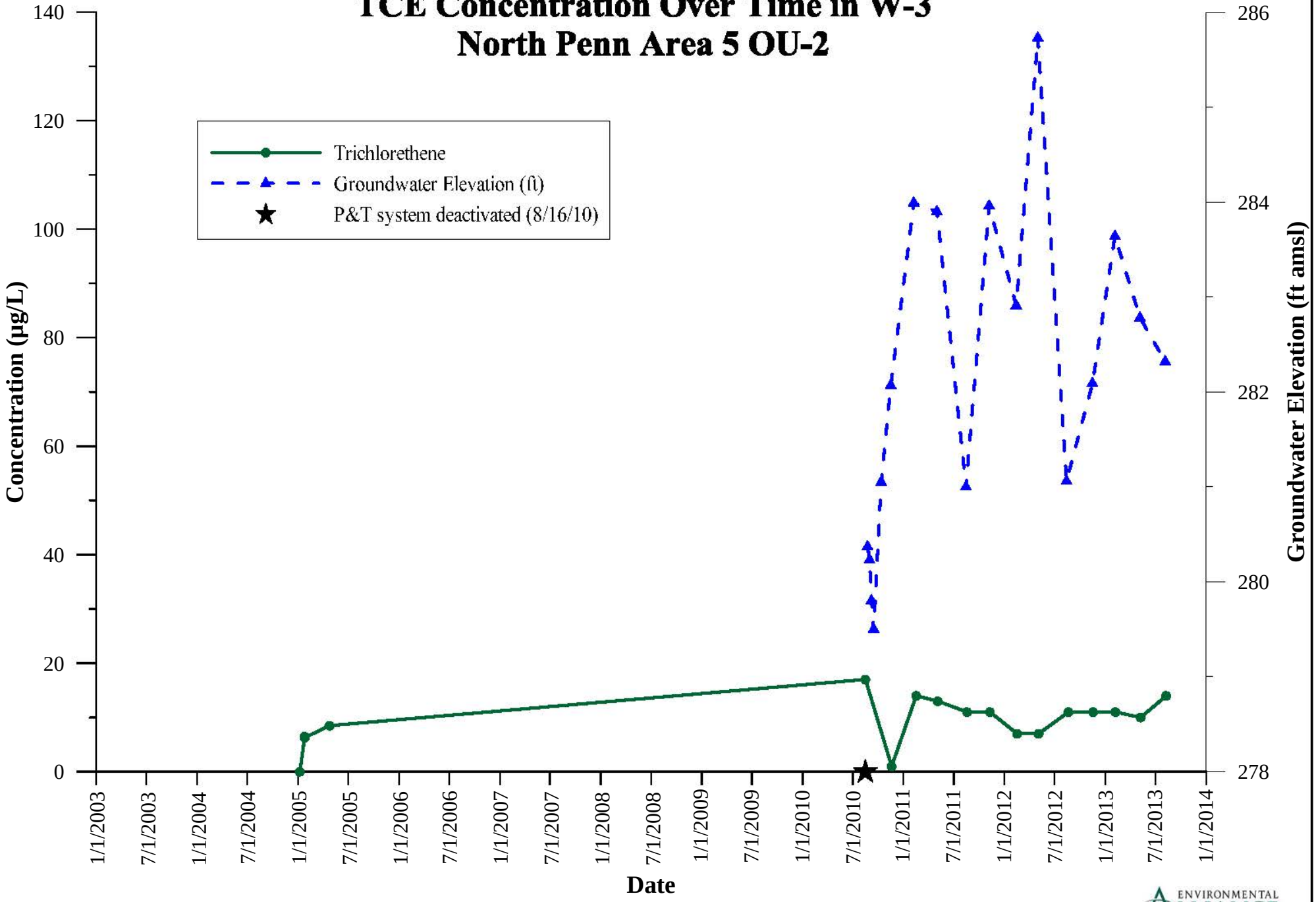


*TCE= TRICHLOROETHENE

J:\EAI_files\1863_North_Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE, INC.

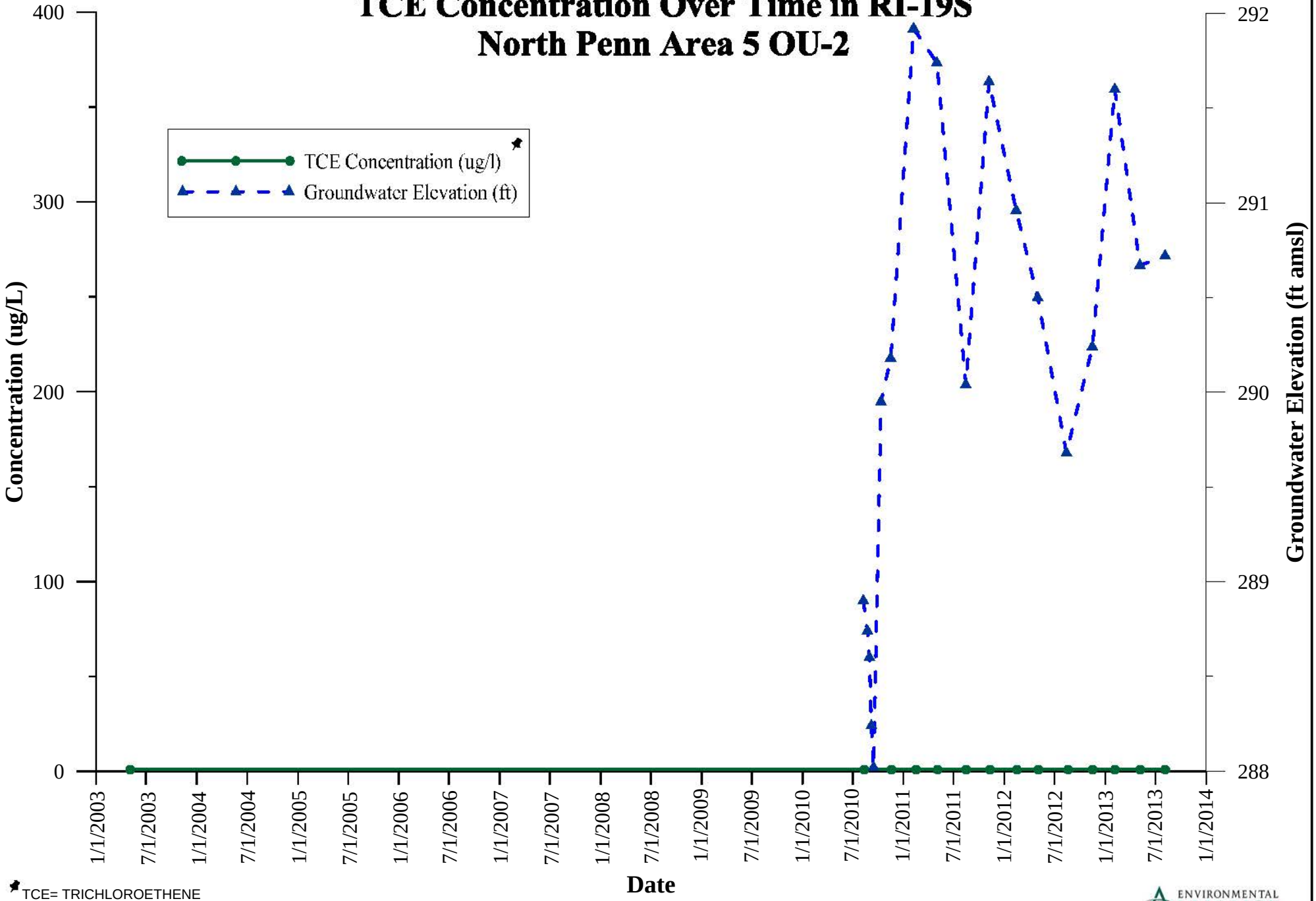
Figure 6W
TCE Concentration Over Time in W-3
North Penn Area 5 OU-2



J:\EAI_files\1863_North_Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE, INC.

Figure 6X
TCE Concentration Over Time in RI-19S
North Penn Area 5 OU-2

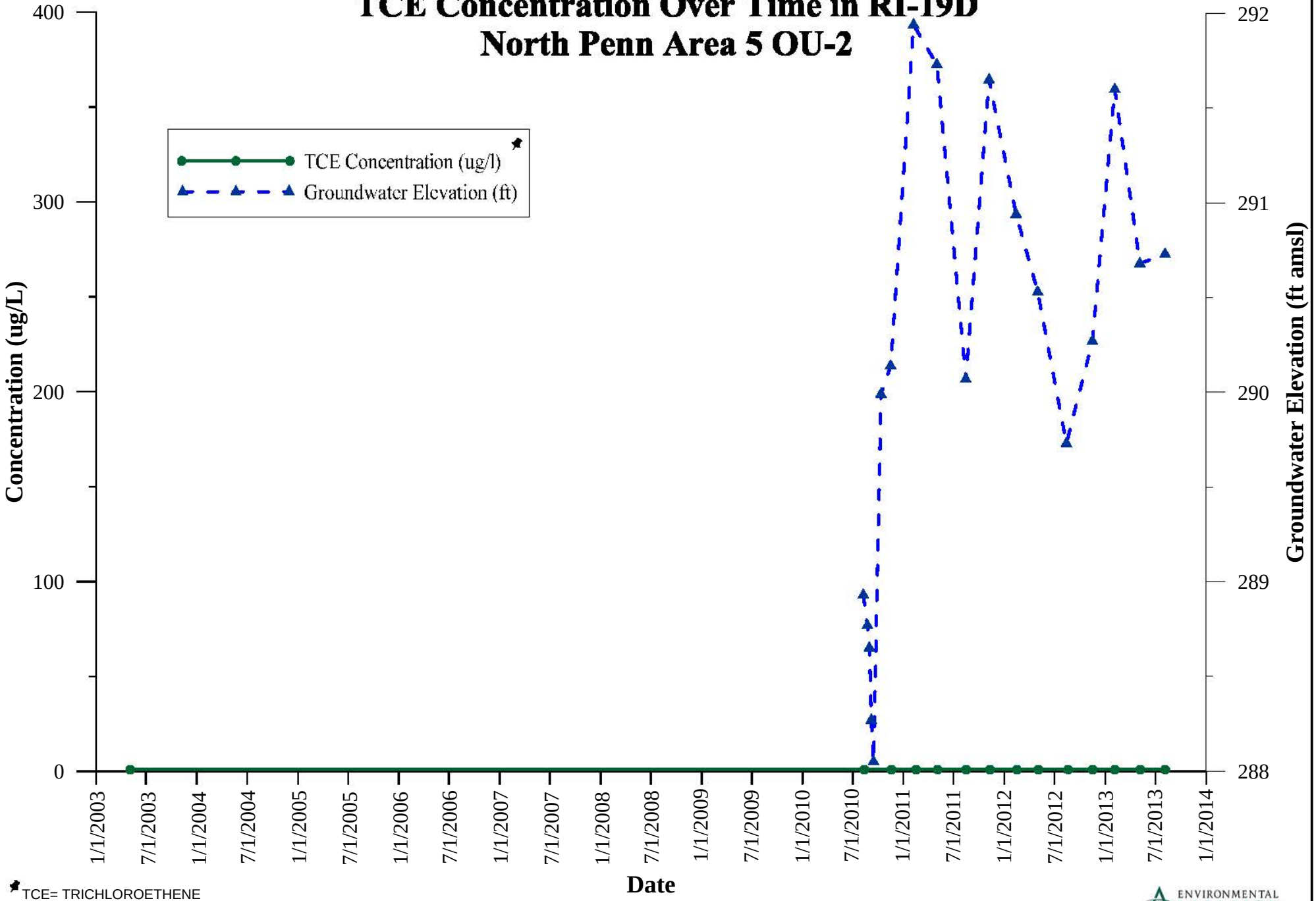


*TCE= TRICHLOROETHENE

J:\EAI_files\1863_North_Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE, INC.

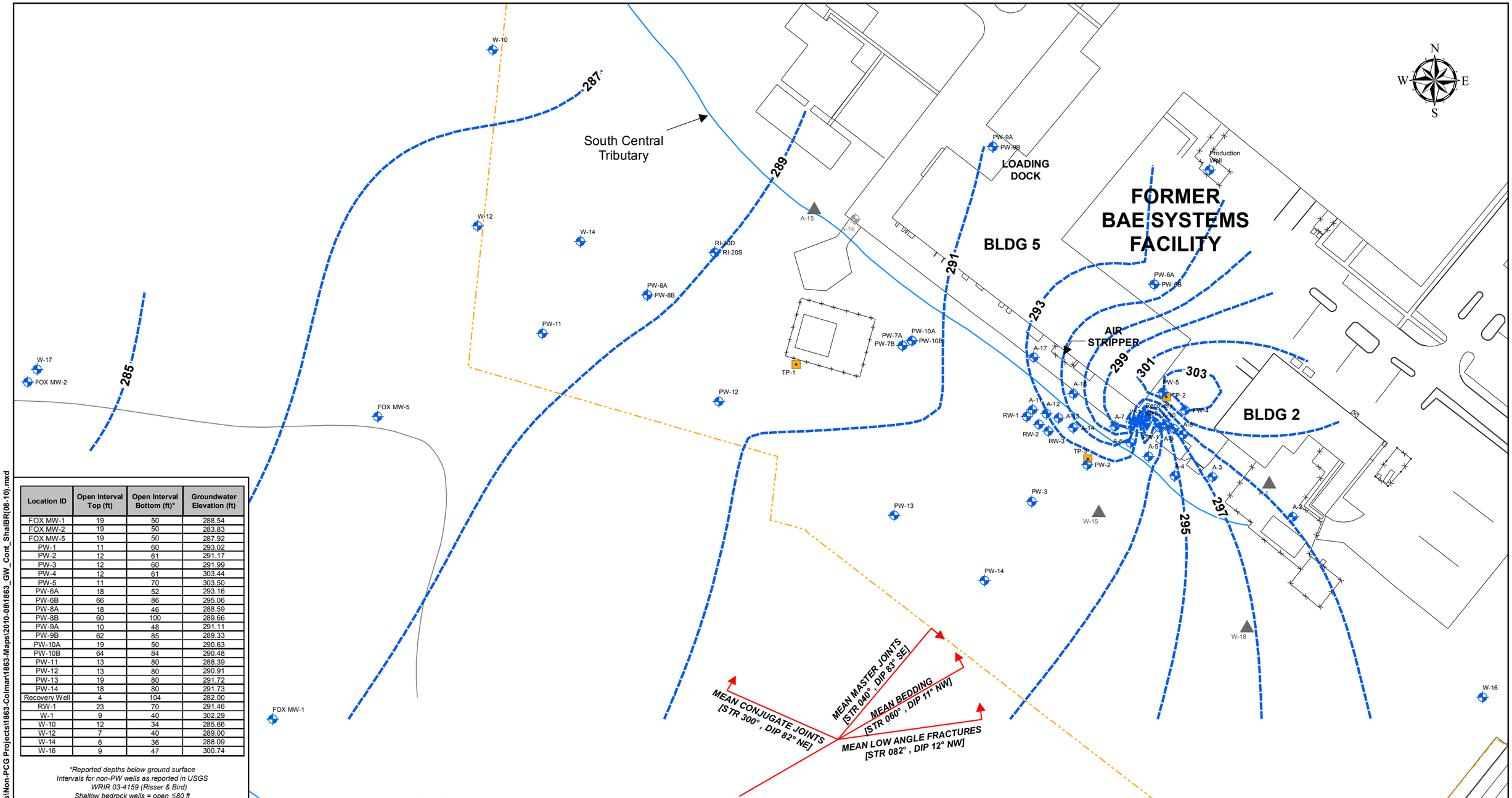
Figure 6Y
TCE Concentration Over Time in RI-19D
North Penn Area 5 OU-2



*TCE= TRICHLOROETHENE

J:\EAI_files\1863_North_Penn\Data\Graphs

ENVIRONMENTAL ALLIANCE INC.



Location ID	Open Interval Top (ft)	Open Interval Bottom (ft)*	Groundwater Elevation (ft)
FOX MW-1	19	50	288.54
FOX MW-2	19	50	283.83
FOX MW-5	19	50	287.92
PW-1	11	60	293.02
PW-2	12	61	291.17
PW-3	12	60	291.99
PW-4	12	61	303.44
PW-5	11	70	303.50
PW-6A	18	52	293.16
PW-6B	66	86	295.06
PW-8A	18	46	288.59
PW-8B	60	100	289.66
PW-9A	10	48	291.11
PW-9B	62	85	289.33
PW-10A	19	50	290.63
PW-10B	64	84	290.48
PW-11	13	80	288.39
PW-12	13	80	290.91
PW-13	19	80	291.72
PW-14	18	80	291.73
Recovery Well	4	104	282.00
RW-1	23	70	291.46
W-1	9	40	302.29
W-10	12	34	285.66
W-12	7	40	289.00
W-14	6	36	288.09
W-16	9	47	300.74

*Reported depths below ground surface
Intervals for non-PW wells as reported in USGS WRIR 03-4159 (Risser & Bird)
Shallow bedrock wells = open ≤80 ft

Legend

- Monitoring Well
- Test Pit
- Abandoned Well
- Unlocated Well
- Groundwater Contour (ft)
- Property Line
- Swale
- Stream/Tributary
- Site Road

0 110 220 Feet

Sources:
Modified based on PASDA Aerial Image
Base Map from Synergy Environmental, Inc.
Base Map from Metz Engineers Survey
Mean bedding, low-angle fracture, and high-angle fracture strike and dip from downhole OTV survey (ARM GEOPHYSICS, Feb. 2007)

Environmental Alliance, Inc.
5341 Limestone Road, Wilmington, DE 19808
Phone: (302) 234-4400 - Fax: (302)234-1535

NORTH PENN AREA 5 SUPERFUND SITE
BUCKS AND MONTGOMERY COUNTIES, PA
OU-1 (BAE)

GROUNDWATER GRADIENT MAP
FOR SHALLOW BEDROCK WELLS
August 2010 (Pre-P&T System Deactivation)

DESIGNED BY:	DRAWN BY:	UPDATED BY:	FIGURE NO.:
JE	LAV	SKJ	7
APPROVED BY:	PROJECT NO.: 1863	DATE: 01/08/14	

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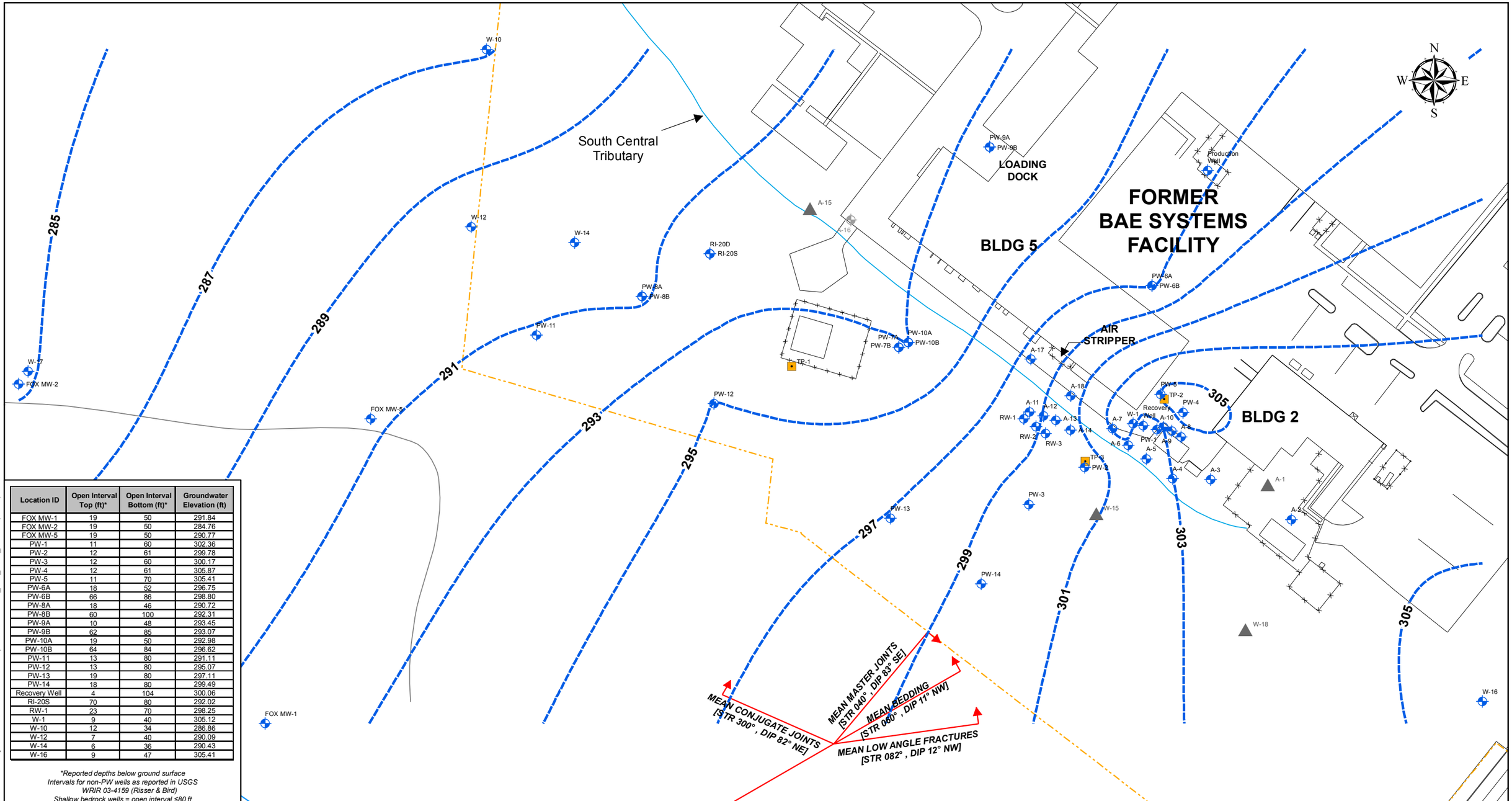

Location ID	Open Interval Top (ft)*	Open Interval Bottom (ft)*	Groundwater Elevation (ft)
FOX MW-1	19	50	291.84
FOX MW-2	19	50	284.76
FOX MW-5	19	50	290.77
PW-1	11	60	302.36
PW-2	12	61	299.78
PW-3	12	60	300.17
PW-4	12	61	305.87
PW-5	11	70	305.41
PW-6A	18	52	296.75
PW-6B	66	86	298.80
PW-8A	18	46	290.72
PW-8B	60	100	292.31
PW-9A	10	48	293.45
PW-9B	62	85	293.07
PW-10A	19	50	292.98
PW-10B	64	84	296.62
PW-11	13	80	291.11
PW-12	13	80	295.07
PW-13	19	80	297.11
PW-14	18	80	299.49
Recovery Well	4	104	300.06
RI-20S	70	80	292.02
RW-1	23	70	298.25
W-1	9	40	305.12
W-10	12	34	286.86
W-12	7	40	290.09
W-14	6	36	290.43
W-16	9	47	305.41

**Reported depths below ground surface*
Intervals for non-PW wells as reported in USGS WRIR 03-4159 (Risser & Bird)
Shallow bedrock wells = open interval ≤80 ft

Legend

- Monitoring Well
- Test Pit
- Abandoned Well
- Unlocked Well
- Groundwater Contour (ft)
- Property Line
- Swale
- Stream/Tributary
- Site Road

0 110 220 Feet

Sources:
Modified based on PASDA Aerial Image
Base Map from Synergy Environmental, Inc.
Base Map from Metz Engineers Survey
Mean bedding, low-angle fracture, and high-angle fracture strike and dip from downhole OTV survey (ARM GEOPHYSICS, Feb. 2007)

Environmental Alliance, Inc.
5341 Limestone Road, Wilmington, DE 19808
Phone: (302) 234-4400 - Fax: (302)234-1535

NORTH PENN AREA 5 SUPERFUND SITE
BUCKS AND MONTGOMERY COUNTIES, PA
OU-1 (BAE)

Groundwater Gradient Map
For Shallow Bedrock Wells
November 2012 (Post-P&T System Deactivation)

DESIGNED BY: JSE	DRAWN BY: SKJ	UPDATED BY: -- --	FIGURE NO.: 8
APPROVED BY:	PROJECT NO.: 1863	DATE: 01/08/14	

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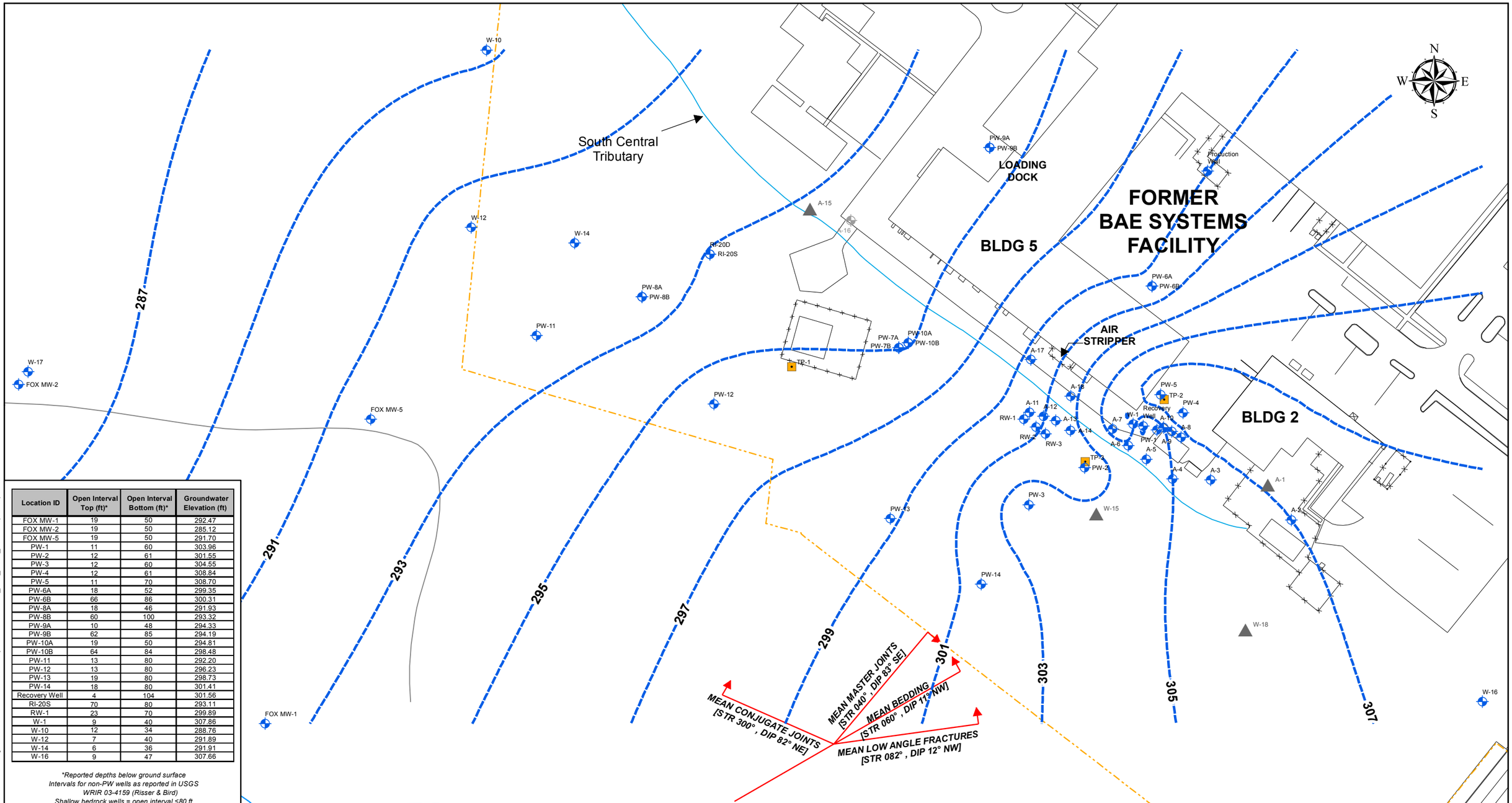

Location ID	Open Interval Top (ft)*	Open Interval Bottom (ft)*	Groundwater Elevation (ft)
FOX MW-1	19	50	292.47
FOX MW-2	19	50	285.12
FOX MW-5	19	50	291.70
PW-1	11	60	303.96
PW-2	12	61	301.55
PW-3	12	60	304.55
PW-4	12	61	308.84
PW-5	11	70	308.70
PW-6A	18	52	299.35
PW-6B	66	86	300.31
PW-8A	18	46	291.93
PW-8B	60	100	293.32
PW-9A	10	48	294.33
PW-9B	62	85	294.19
PW-10A	19	50	294.81
PW-10B	64	84	298.48
PW-11	13	80	292.20
PW-12	13	80	296.23
PW-13	19	80	298.73
PW-14	18	80	301.41
Recovery Well	4	104	301.56
RI-20S	70	80	293.11
RW-1	23	70	299.89
W-1	9	40	307.86
W-10	12	34	288.76
W-12	7	40	291.89
W-14	6	36	291.91
W-16	9	47	307.66

**Reported depths below ground surface*
Intervals for non-PW wells as reported in USGS WRIR 03-4159 (Risser & Bird)
Shallow bedrock wells = open interval ≤80 ft

Legend

- Monitoring Well
- Test Pit
- Abandoned Well
- Unlocked Well
- Groundwater Contour (ft)
- Property Line
- Swale
- Stream/Tributary
- Site Road

0 110 220 Feet

Sources:
Modified based on PASDA Aerial Image
Base Map from Synergy Environmental, Inc.
Base Map from Metz Engineers Survey
Mean bedding, low-angle fracture, and high-angle fracture strike and dip from downhole OTV survey (ARM GEOPHYSICS, Feb. 2007)

Environmental Alliance, Inc.
5341 Limestone Road, Wilmington, DE 19808
Phone: (302) 234-4400 - Fax: (302)234-1535

NORTH PENN AREA 5 SUPERFUND SITE
BUCKS AND MONTGOMERY COUNTIES, PA
OU-1 (BAE)

Groundwater Gradient Map
For Shallow Bedrock Wells
February 2013 (Post-P&T System Deactivation)

DESIGNED BY:	DRAWN BY:	UPDATED BY:	FIGURE NO.:
JSE	SKJ	-- --	9
APPROVED BY:	PROJECT NO.: 1863	DATE: 01/08/14	

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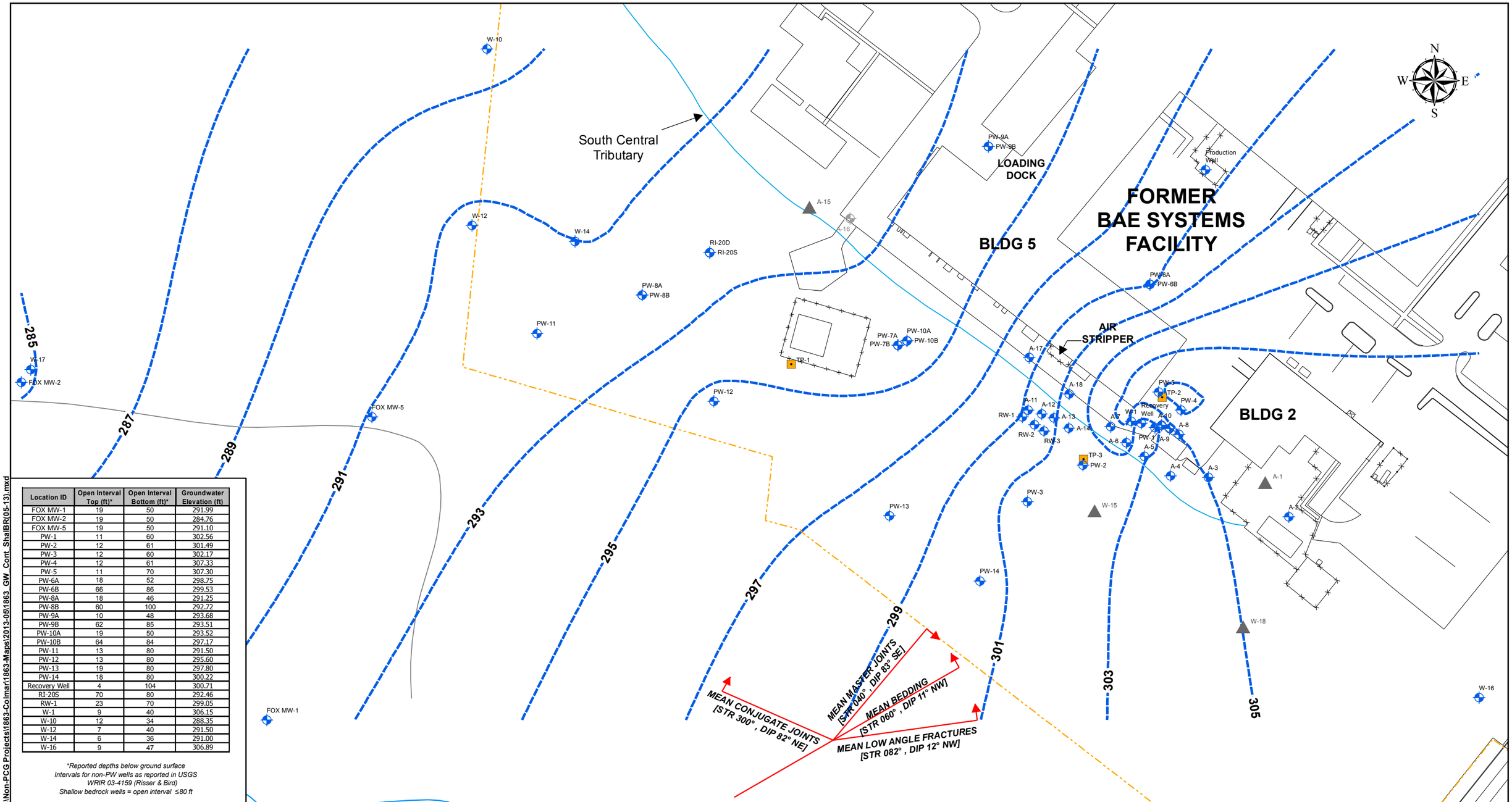

Location ID	Open Interval Top (ft)*	Open Interval Bottom (ft)*	Groundwater Elevation (ft)
FOX MW-1	19	50	291.99
FOX MW-2	19	50	284.76
FOX MW-5	19	50	291.10
PW-1	11	60	302.56
PW-2	12	61	301.49
PW-3	12	60	302.17
PW-4	12	61	307.33
PW-5	11	70	307.30
PW-6A	18	52	298.75
PW-6B	66	86	299.53
PW-8A	18	46	291.25
PW-8B	60	100	292.72
PW-9A	10	48	293.68
PW-9B	62	85	293.51
PW-10A	19	50	293.52
PW-10B	64	84	297.17
PW-11	13	80	291.50
PW-12	13	80	295.60
PW-13	19	80	297.80
PW-14	18	80	300.22
Recovery Well	4	104	300.71
RI-20S	70	80	292.46
RW-1	23	70	299.05
W-1	9	40	306.15
W-10	12	34	288.35
W-12	7	40	291.50
W-14	6	36	291.00
W-16	9	47	306.89

**Reported depths below ground surface*
Intervals for non-PW wells as reported in USGS WRIR 03-4159 (Risser & Bird)
Shallow bedrock wells = open interval ≤80 ft

Legend

- Monitoring Well
- Test Pit
- Abandoned Well
- Unlocked Well
- Groundwater Contour (ft)
- Property Line
- Swale
- Stream/Tributary
- Site Road

0 110 220 Feet

Sources:
Modified based on PASDA Aerial Image
Base Map from Synergy Environmental, Inc.
Base Map from Metz Engineers Survey
Mean bedding, low-angle fracture, and high-angle fracture strike and dip from downhole OTV survey (ARM GEOPHYSICS, Feb. 2007)

Environmental Alliance, Inc.
5341 Limestone Road, Wilmington, DE 19808
Phone: (302) 234-4400 - Fax: (302)234-1535

NORTH PENN AREA 5 SUPERFUND SITE
BUCKS AND MONTGOMERY COUNTIES, PA
OU-1 (BAE)

Groundwater Gradient Map
For Shallow Bedrock Wells
May 2013 (Post-P&T System Deactivation)

DESIGNED BY:	DRAWN BY:	UPDATED BY:	FIGURE NO.:
JSE	SKJ	-- --	10
APPROVED BY:	PROJECT NO.: 1863	DATE: 01/08/14	

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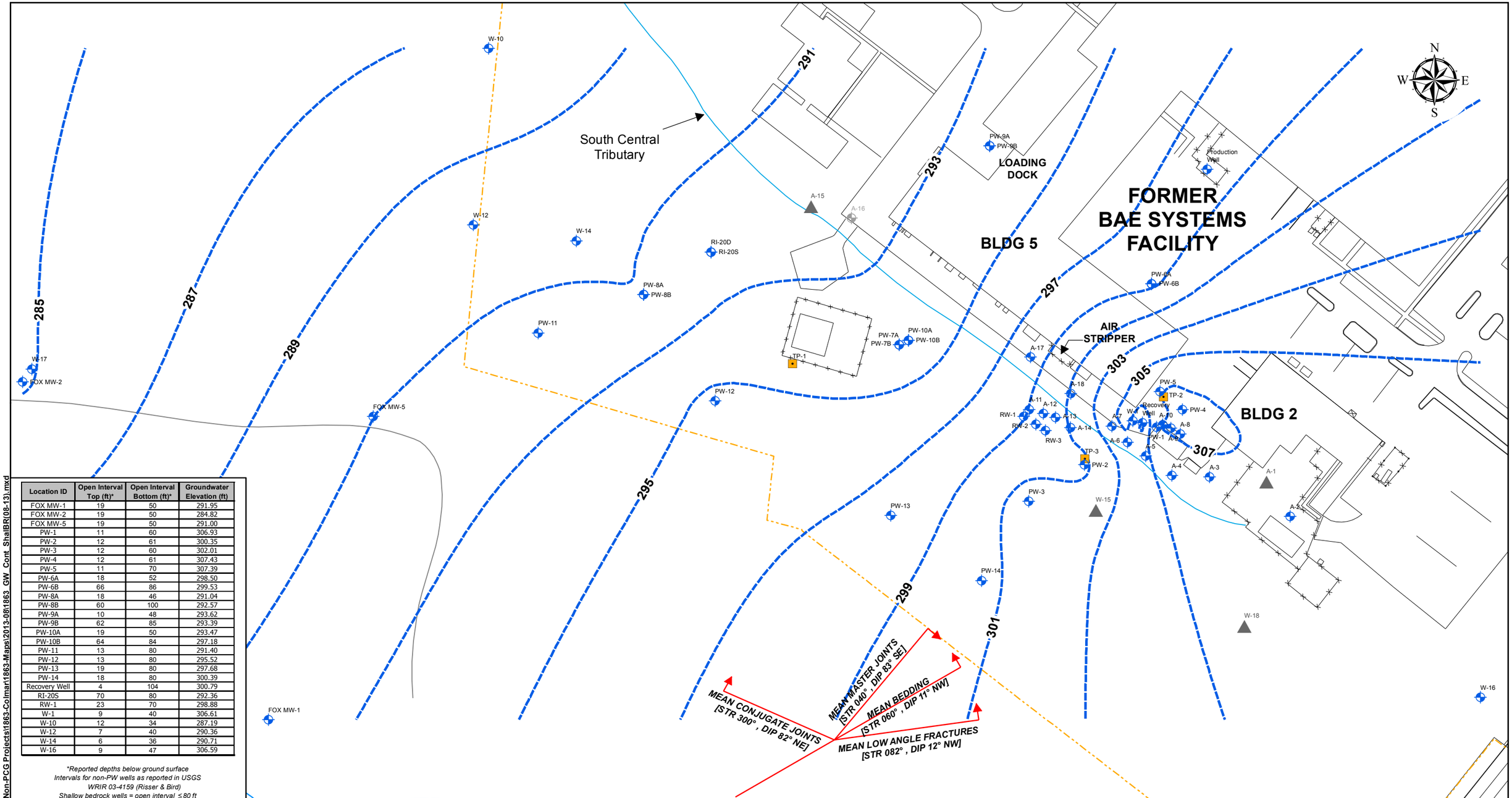

Location ID	Open Interval Top (ft)*	Open Interval Bottom (ft)*	Groundwater Elevation (ft)
FOX MW-1	19	50	291.95
FOX MW-2	19	50	284.82
FOX MW-5	19	50	291.00
PW-1	11	60	306.93
PW-2	12	61	300.35
PW-3	12	60	302.01
PW-4	12	61	307.43
PW-5	11	70	307.39
PW-6A	18	52	298.50
PW-6B	66	86	299.53
PW-8A	18	46	291.04
PW-8B	60	100	292.57
PW-9A	10	48	293.62
PW-9B	62	85	293.39
PW-10A	19	50	293.47
PW-10B	64	84	297.18
PW-11	13	80	291.40
PW-12	13	80	295.52
PW-13	19	80	297.68
PW-14	18	80	300.39
Recovery Well	4	104	300.79
RI-20S	70	80	292.36
RW-1	23	70	298.88
W-1	9	40	306.61
W-10	12	34	287.19
W-12	7	40	290.36
W-14	6	36	290.71
W-16	9	47	306.59

**Reported depths below ground surface*
Intervals for non-PW wells as reported in USGS WRIR 03-4159 (Risser & Bird)
Shallow bedrock wells = open interval ≤80 ft

Legend

- Monitoring Well
- Test Pit
- Abandoned Well
- Unlocated Well
- Groundwater Contour (ft)
- Property Line
- Swale
- Stream/Tributary
- Site Road

0 110 220 Feet

Sources:
Modified based on PASDA Aerial Image
Base Map from Synergy Environmental, Inc.
Base Map from Metz Engineers Survey
Mean bedding, low-angle fracture, and high-angle fracture strike and dip from downhole OTV survey (ARM GEOPHYSICS, Feb. 2007)

Environmental Alliance, Inc.
5341 Limestone Road, Wilmington, DE 19808
Phone: (302) 234-4400 - Fax: (302)234-1535

NORTH PENN AREA 5 SUPERFUND SITE
BUCKS AND MONTGOMERY COUNTIES, PA
OU-1 (BAE)

Groundwater Gradient Map
For Shallow Bedrock Wells
August 2013 (Post-P&T System Deactivation)

DESIGNED BY:	DRAWN BY:	UPDATED BY:	FIGURE NO.:
JSE	SKJ	-- --	11
APPROVED BY:	PROJECT NO.: 1863	DATE: 01/08/14	

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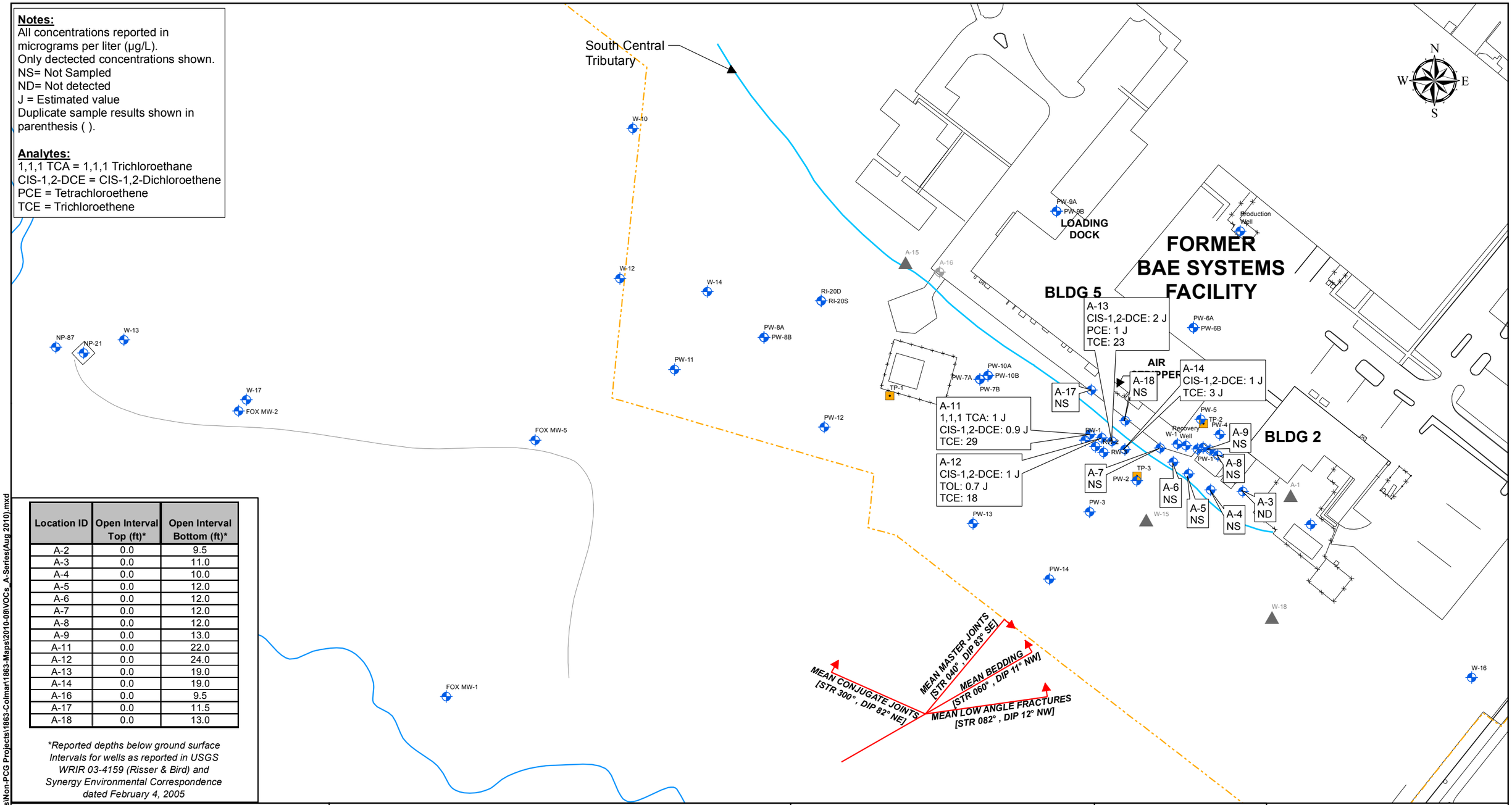
Notes:
All concentrations reported in micrograms per liter (µg/L).
Only dectected concentrations shown.
NS= Not Sampled
ND= Not detected
J = Estimated value
Duplicate sample results shown in parenthesis ( ).

Analytes:
1,1,1 TCA = 1,1,1 Trichloroethane
CIS-1,2-DCE = CIS-1,2-Dichloroethene
PCE = Tetrachloroethene
TCE = Trichloroethene



Location ID	Open Interval Top (ft)*	Open Interval Bottom (ft)*
A-2	0.0	9.5
A-3	0.0	11.0
A-4	0.0	10.0
A-5	0.0	12.0
A-6	0.0	12.0
A-7	0.0	12.0
A-8	0.0	12.0
A-9	0.0	13.0
A-11	0.0	22.0
A-12	0.0	24.0
A-13	0.0	19.0
A-14	0.0	19.0
A-16	0.0	9.5
A-17	0.0	11.5
A-18	0.0	13.0

**Reported depths below ground surface*
Intervals for wells as reported in USGS WRIR 03-4159 (Risser & Bird) and Synergy Environmental Correspondence dated February 4, 2005

MEAN BEDDING, LOW-ANGLE FRACTURE, & HIGH-ANGLE FRACTURE STRIKE & DIP FROM DOWNHOLE OTV SURVEY (ARM GEOPHYSICS, FEB. 2007)

GROUNDWATER RECOVERY SYSTEM (PUMPING WELLS: RECOVERY WELL, RI-20S & RW-1) ACTIVE DURING DATA COLLECTION.

Legend
- Monitoring Well
- Test Pit
- Abandoned Well
- Unlocated Well
- Stream/Tributary
- Site Road
- Property Line
- Swale

0 130 260
Feet

Source: Modified from PASDA Aerial Image
Base Map from Synergy Environmental, Inc.
Base Map from Metz Engineers Survey

Environmental Alliance, Inc.
5341 Limestone Road, Wilmington, DE 19808
Phone: (302) 234-4400 - Fax: (302)234-1535

NORTH PENN AREA 5 SUPERFUND SITE
BUCKS & MONTGOMERY COUNTIES, PA
OU-1 (BAE)

Groundwater VOCs, A-Series Wells (Regolith)
August 2010 (Pre-P&T System Deactivation)
Groundwater Sampling Event

DESIGNED BY:	DRAWN BY:	UPDATED BY:	FIGURE NO.:
----	SKJ	---	12
APPROVED BY:	PROJECT NO.:	DATE:	
	----	03/31/14	

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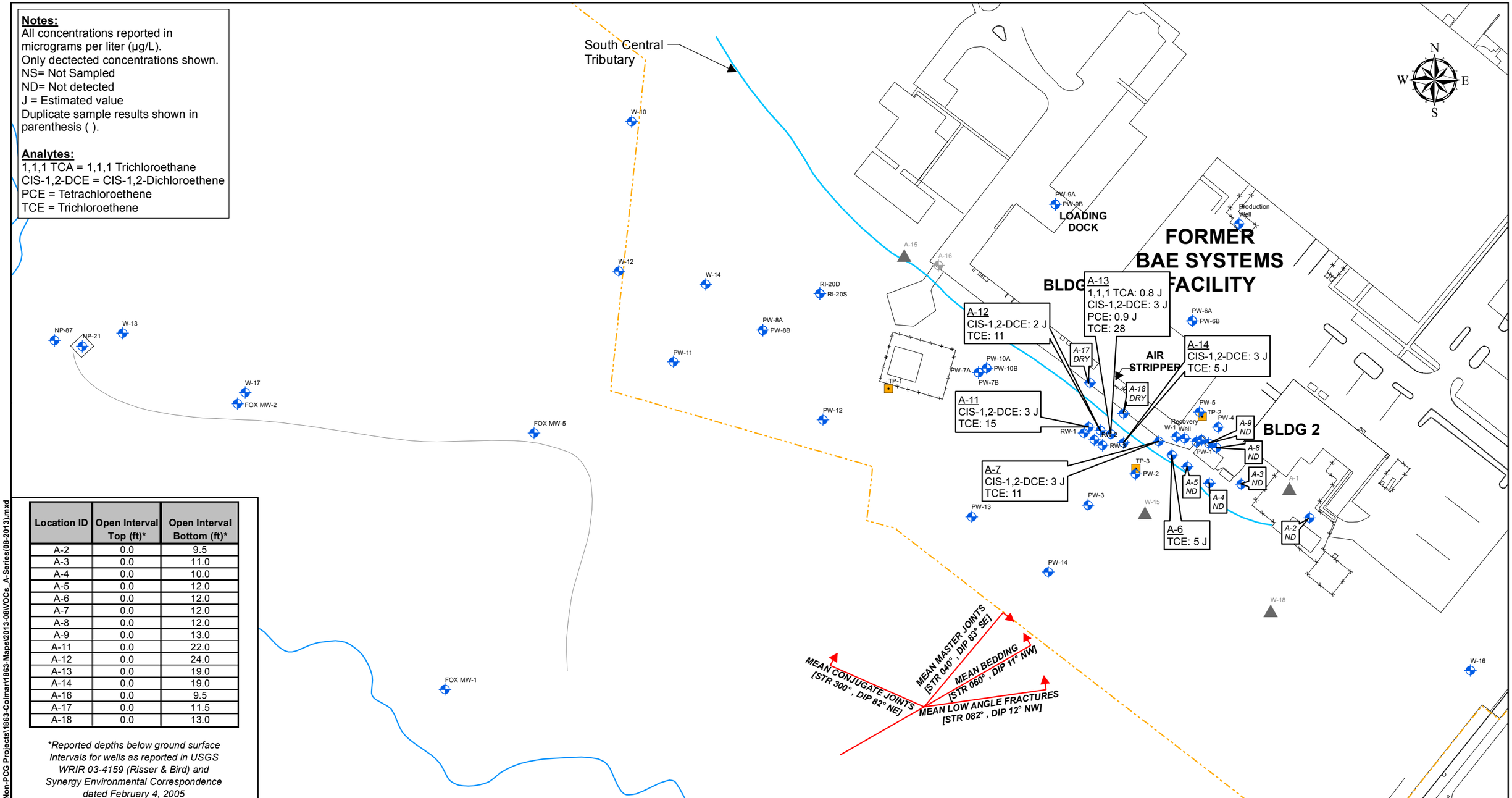
Notes:
All concentrations reported in micrograms per liter (µg/L).
Only dectected concentrations shown.
NS= Not Sampled
ND= Not detected
J = Estimated value
Duplicate sample results shown in parenthesis ( ).

Analytes:
1,1,1 TCA = 1,1,1 Trichloroethane
CIS-1,2-DCE = CIS-1,2-Dichloroethene
PCE = Tetrachloroethene
TCE = Trichloroethene



Location ID	Open Interval Top (ft)*	Open Interval Bottom (ft)*
A-2	0.0	9.5
A-3	0.0	11.0
A-4	0.0	10.0
A-5	0.0	12.0
A-6	0.0	12.0
A-7	0.0	12.0
A-8	0.0	12.0
A-9	0.0	13.0
A-11	0.0	22.0
A-12	0.0	24.0
A-13	0.0	19.0
A-14	0.0	19.0
A-16	0.0	9.5
A-17	0.0	11.5
A-18	0.0	13.0

**Reported depths below ground surface*
Intervals for wells as reported in USGS WRIR 03-4159 (Risser & Bird) and Synergy Environmental Correspondence dated February 4, 2005

MEAN BEDDING, LOW-ANGLE FRACTURE, & HIGH-ANGLE FRACTURE STRIKE & DIP FROM DOWNHOLE OTV SURVEY (ARM GEOPHYSICS, FEB. 2007)

GROUNDWATER RECOVERY SYSTEM (PUMPING WELLS: RECOVERY WELL, RI-20S & RW-1) ACTIVE DURING DATA COLLECTION.

Legend
- Monitoring Well
- Test Pit
- Abandoned Well
- Unlocated Well
- Stream/Tributary
- Site Road
- Property Line
- Swale

0 130 260
Feet

Source: Modified from PASDA Aerial Image
Base Map from Synergy Environmental, Inc.
Base Map from Metz Engineers Survey

Environmental Alliance, Inc.
5341 Limestone Road, Wilmington, DE 19808
Phone: (302) 234-4400 - Fax: (302)234-1535

NORTH PENN AREA 5 SUPERFUND SITE
BUCKS & MONTGOMERY COUNTIES, PA
OU-1 (BAE)

Groundwater VOCs, A-Series Wells (Regolith)
August 2013 (Post-P&T System Deactivation)
Groundwater Sampling Event

DESIGNED BY:	DRAWN BY:	UPDATED BY:	FIGURE NO.:
----	SKJ	----	13
APPROVED BY:	PROJECT NO.: 1863	DATE: 03/31/14	

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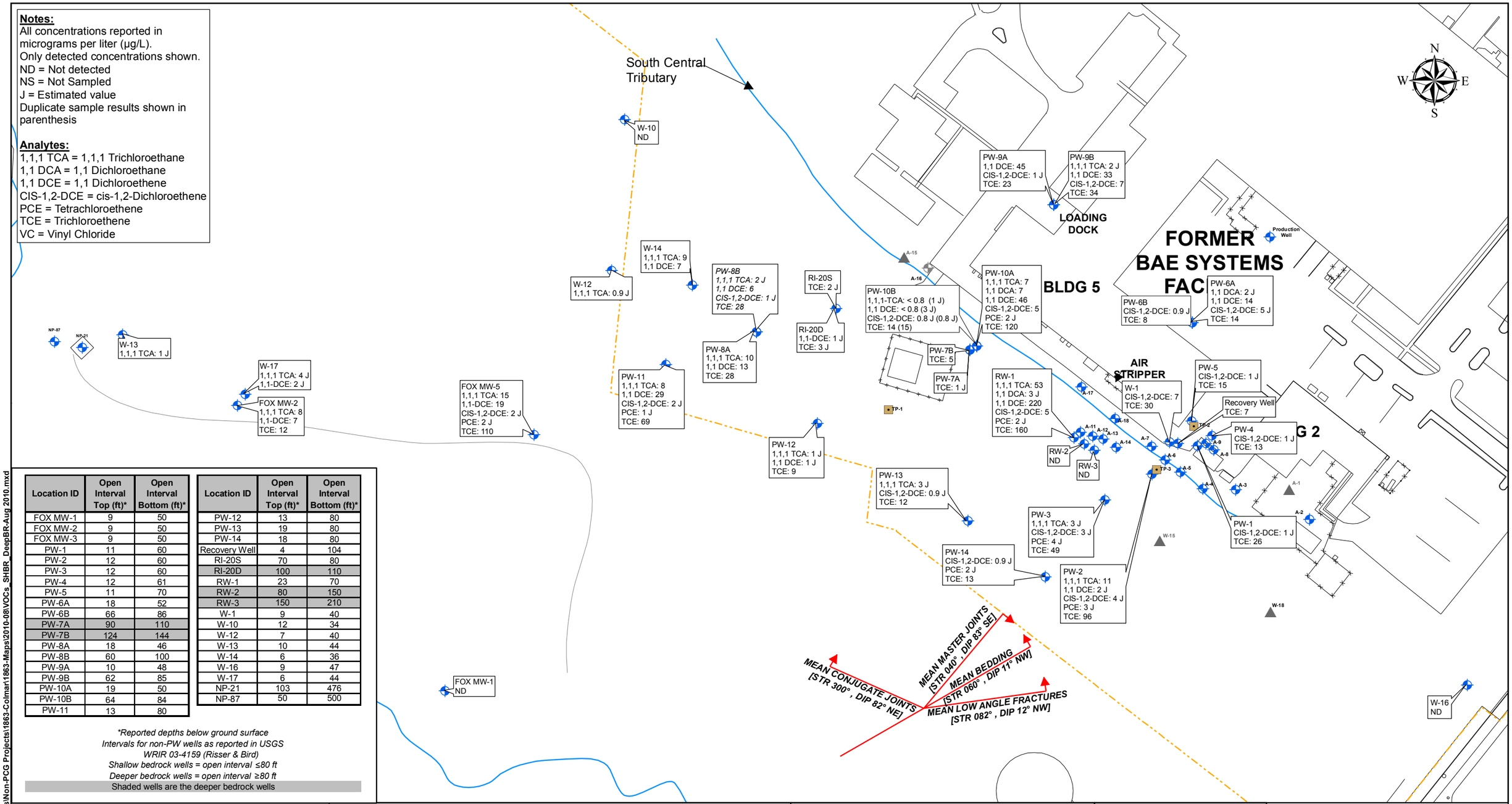
Notes:
All concentrations reported in micrograms per liter (µg/L).
Only detected concentrations shown.
ND = Not detected
NS = Not Sampled
J = Estimated value
Duplicate sample results shown in parenthesis

Analytes:
1,1,1 TCA = 1,1,1 Trichloroethane
1,1 DCA = 1,1 Dichloroethane
1,1 DCE = 1,1 Dichloroethene
CIS-1,2-DCE = cis-1,2-Dichloroethene
PCE = Tetrachloroethene
TCE = Trichloroethene
VC = Vinyl Chloride



Location ID	Open Interval Top (ft)*	Open Interval Bottom (ft)*
FOX MW-1	9	50
FOX MW-2	9	50
FOX MW-3	9	50
PW-1	11	60
PW-2	12	60
PW-3	12	60
PW-4	12	61
PW-5	11	70
PW-6A	18	52
PW-6B	66	86
PW-7A	90	110
PW-7B	124	144
PW-8A	18	46
PW-8B	60	100
PW-9A	10	48
PW-9B	62	85
PW-10A	19	50
PW-10B	64	84
PW-11	13	80

Location ID	Open Interval Top (ft)*	Open Interval Bottom (ft)*
PW-12	13	80
PW-13	19	80
PW-14	18	80
Recovery Well	4	104
RI-20S	70	80
RI-20D	100	110
RW-1	23	70
RW-2	80	150
RW-3	150	210
W-1	9	40
W-10	12	34
W-12	7	40
W-13	10	44
W-14	6	36
W-16	9	47
W-17	6	44
NP-21	103	476
NP-87	50	500

**Reported depths below ground surface*
Intervals for non-PW wells as reported in USGS WRIR 03-4159 (Risser & Bird)
Shallow bedrock wells = open interval ≤80 ft
Deeper bedrock wells = open interval ≥80 ft
Shaded wells are the deeper bedrock wells

MEAN BEDDING, LOW-ANGLE FRACTURE, & HIGH-ANGLE FRACTURE STRIKE & DIP FROM DOWNHOLE OTV SURVEY (ARM GEOPHYSICS, FEB. 2007)

GROUNDWATER RECOVERY SYSTEM (PUMPING WELLS: RECOVERY WELL, RI-20S & RW-1) INACTIVE DURING DATA COLLECTION.

Legend
- Monitoring Well
- Test Pit
- Abandoned Well
- Unlocated Well
- Stream/Tributary
- Site Road
- Property Line
- Swale

0 130 260
Feet

Source: Modified from PASDA Aerial Image
Base Map from Synergy Environmental, Inc.
Base Map from Metz Engineers Survey

Environmental Alliance, Inc.
5341 Limestone Road, Wilmington, DE 19808
Phone: (302) 234-4400 - Fax: (302)234-1535

NORTH PENN AREA 5 SUPERFUND SITE
BUCKS & MONTGOMERY COUNTIES, PA
OU-1 (BAE)

Groundwater VOCs - Bedrock Wells
August 2010 (Pre-P&T System Deactivation)
Groundwater Sampling Event

DESIGNED BY: CPT	DRAWN BY: SKJ	UPDATED BY: ---	FIGURE NO.: 14
APPROVED BY:	PROJECT NO.: 1863	DATE: 03/31/14	

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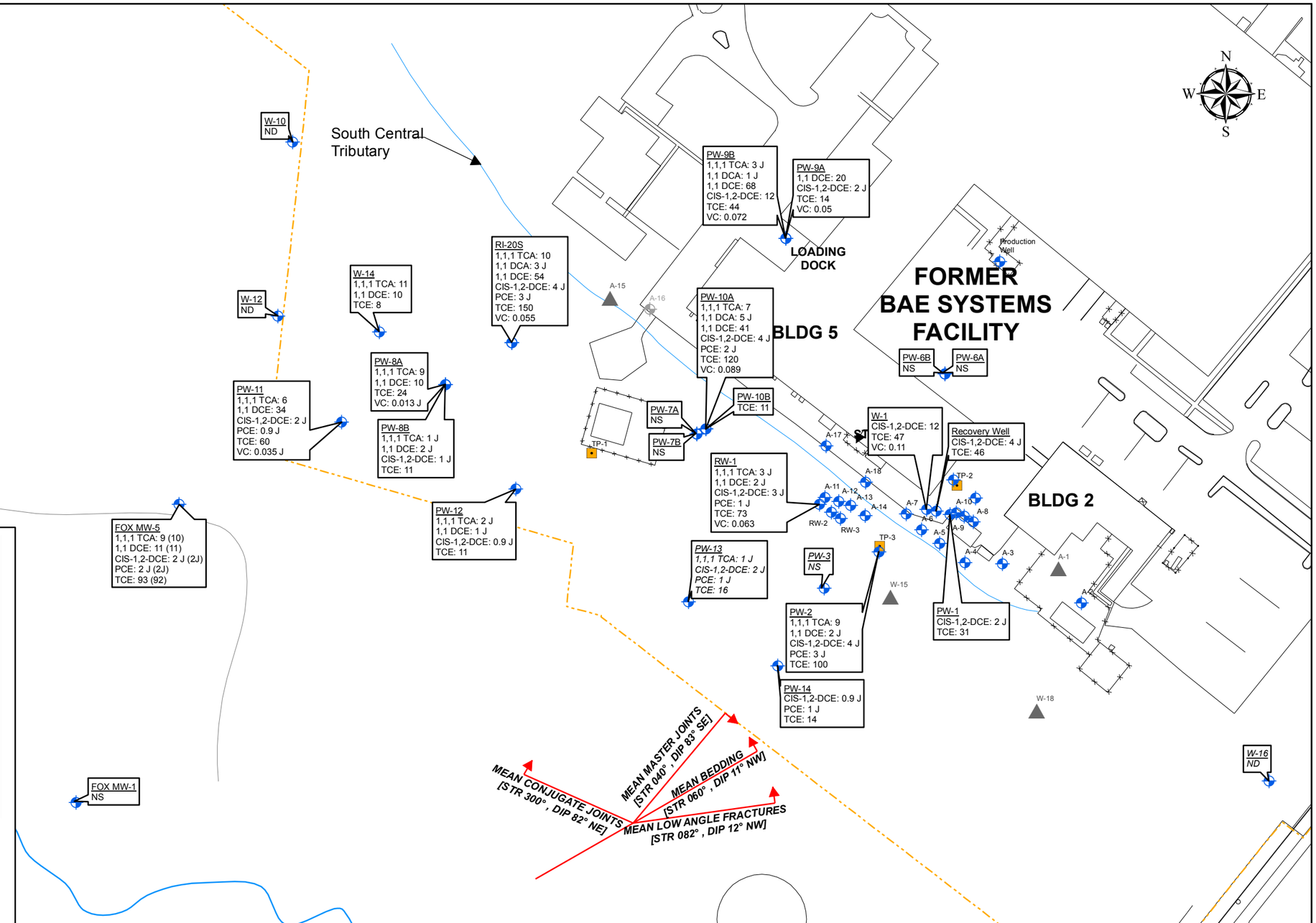
Notes:
All concentrations reported in micrograms per liter (µg/L).
Only detected concentrations shown.
ND = Not detected
NS = Not Sampled
J = Estimated value
Duplicate sample results shown in parenthesis

Analytes:
1,1,1 TCA = 1,1,1 Trichloroethane
1,1 DCA = 1,1 Dichloroethane
1,1 DCE = 1,1 Dichloroethene
CIS-1,2-DCE = cis-1,2-Dichloroethene
PCE = Tetrachloroethene
TCE = Trichloroethene
VC = Vinyl Chloride



Location ID	Open Interval Top (ft)*	Open Interval Bottom (ft)*
FOX MW-1	9	50
FOX MW-2	9	50
FOX MW-3	9	50
PW-1	11	60
PW-2	12	60
PW-3	12	60
PW-4	12	61
PW-5	11	70
PW-6A	18	52
PW-6B	66	86
PW-7A	90	110
PW-7B	124	144
PW-8A	18	46
PW-8B	60	100
PW-9A	10	48
PW-9B	62	85
PW-10A	19	50
PW-10B	64	84
PW-11	13	80

Location ID	Open Interval Top (ft)*	Open Interval Bottom (ft)*
PW-12	13	80
PW-13	19	80
PW-14	18	80
Recovery Well	4	104
RI-20S	70	80
RI-20D	100	110
RW-1	23	70
RW-2	80	150
RW-3	150	210
W-1	9	40
W-10	12	34
W-12	7	40
W-13	10	44
W-14	6	36
W-16	9	47
W-17	6	44
NP-21	103	476
NP-87	50	500

**Reported depths below ground surface*
Intervals for non-PW wells as reported in USGS WRIR 03-4159 (Risser & Bird)
Shallow bedrock wells = open interval ≤80 ft
Deeper bedrock wells = open interval ≥80 ft
Shaded wells are the deeper bedrock wells

MEAN BEDDING, LOW-ANGLE FRACTURE, & HIGH-ANGLE FRACTURE STRIKE & DIP FROM DOWNHOLE OTV SURVEY (ARM GEOPHYSICS, FEB. 2007)

GROUNDWATER RECOVERY SYSTEM (PUMPING WELLS: RECOVERY WELL, RI-20S & RW-1) INACTIVE DURING DATA COLLECTION.

Legend
- Monitoring Well
- Test Pit
- Abandoned Well
- Unlocated Well
- Stream/Tributary
- Site Road
- Property Line
- Swale

0 130 260
Feet

Source: Modified from PASDA Aerial Image
Base Map from Synergy Environmental, Inc.
Base Map from Metz Engineers Survey

Environmental Alliance, Inc.
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NORTH PENN AREA 5 SUPERFUND SITE
BUCKS & MONTGOMERY COUNTIES, PA
OU-1 (BAE)

Groundwater VOCs - Bedrock Wells
November 2012 (Post-P&T System Deactivation) Groundwater Sampling Event

DESIGNED BY: JSE	DRAWN BY: SKJ	UPDATED BY: ---	FIGURE NO.: 15
APPROVED BY:	PROJECT NO.: 1863	DATE: 03/31/14	

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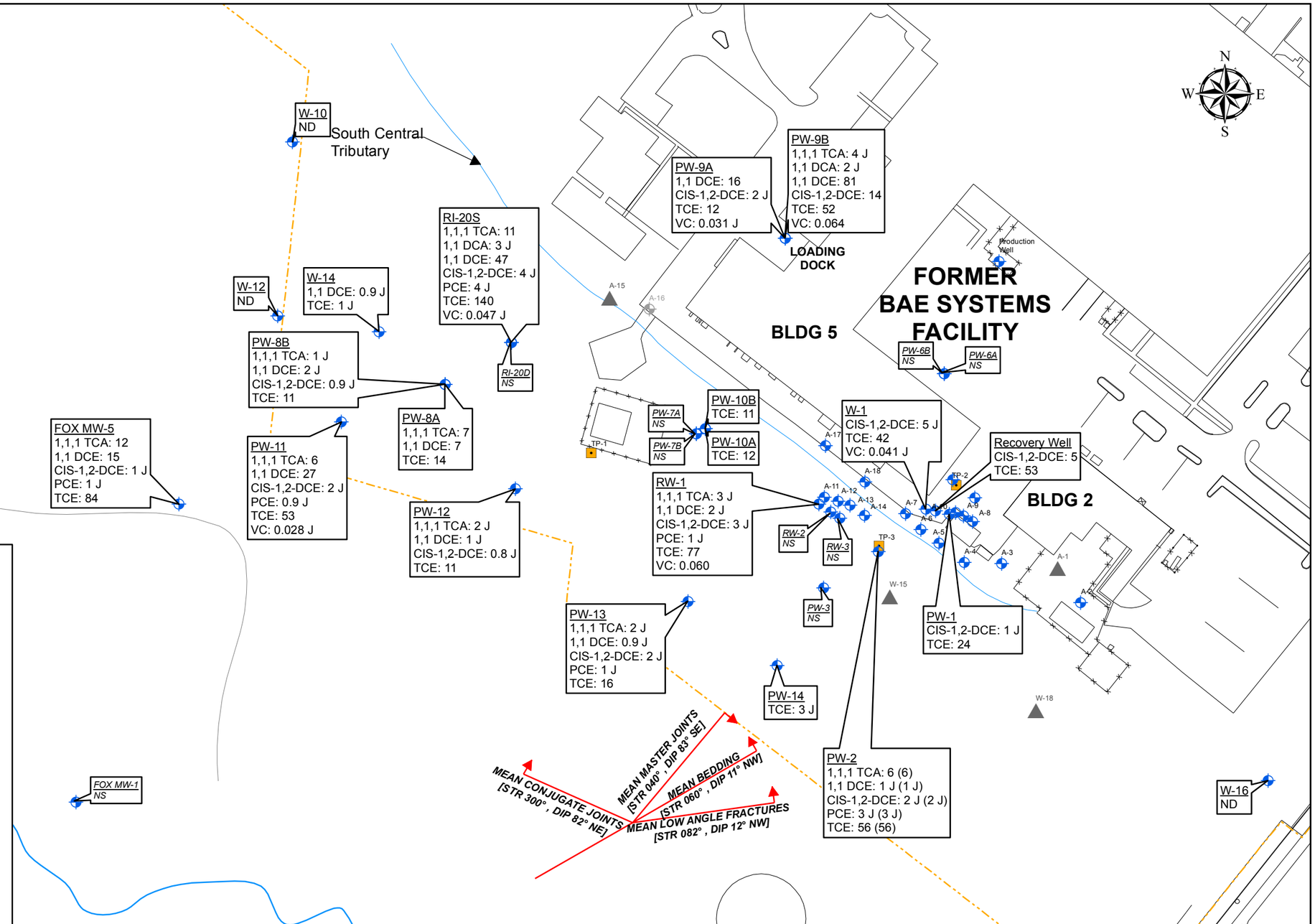
Notes:
All concentrations reported in micrograms per liter (µg/L).
Only detected concentrations shown.
ND = Not detected
NS = Not Sampled
J = Estimated value
Duplicate sample results shown in parenthesis

Analytes:
1,1,1 TCA = 1,1,1 Trichloroethane
1,1 DCA = 1,1 Dichloroethane
1,1 DCE = 1,1 Dichloroethene
CIS-1,2-DCE = cis-1,2-Dichloroethene
PCE = Tetrachloroethene
TCE = Trichloroethene
VC = Vinyl Chloride



Location ID	Open Interval Top (ft)*	Open Interval Bottom (ft)*
FOX MW-1	9	50
FOX MW-2	9	50
FOX MW-3	9	50
PW-1	11	60
PW-2	12	60
PW-3	12	60
PW-4	12	61
PW-5	11	70
PW-6A	18	52
PW-6B	66	86
PW-7A	90	110
PW-7B	124	144
PW-8A	18	46
PW-8B	60	100
PW-9A	10	48
PW-9B	62	85
PW-10A	19	50
PW-10B	64	84
PW-11	13	80

Location ID	Open Interval Top (ft)*	Open Interval Bottom (ft)*
PW-12	13	80
PW-13	19	80
PW-14	18	80
Recovery Well	4	104
RI-20S	70	80
RI-20D	100	110
RW-1	23	70
RW-2	80	150
RW-3	150	210
W-1	9	40
W-10	12	34
W-12	7	40
W-13	10	44
W-14	6	36
W-16	9	47
W-17	6	44
NP-21	103	476
NP-87	50	500

*Reported depths below ground surface
Intervals for non-PW wells as reported in USGS WRIR 03-4159 (Risser & Bird)
Shallow bedrock wells = open interval ≤80 ft
Deeper bedrock wells = open interval ≥80 ft
Shaded wells are the deeper bedrock wells

MEAN BEDDING, LOW-ANGLE FRACTURE, & HIGH-ANGLE FRACTURE STRIKE & DIP FROM DOWNHOLE OTV SURVEY (ARM GEOPHYSICS, FEB. 2007)

GROUNDWATER RECOVERY SYSTEM (PUMPING WELLS: RECOVERY WELL, RI-20S & RW-1) INACTIVE DURING DATA COLLECTION.

Legend
- Monitoring Well
- Test Pit
- Abandoned Well
- Unlocated Well
- Stream/Tributary
- Site Road
- Property Line
- Swale

0 130 260
Feet

Source: Modified from PASDA Aerial Image
Base Map from Synergy Environmental, Inc.
Base Map from Metz Engineers Survey

Environmental Alliance, Inc.
5341 Limestone Road, Wilmington, DE 19808
Phone: (302) 234-4400 - Fax: (302)234-1535

NORTH PENN AREA 5 SUPERFUND SITE
BUCKS & MONTGOMERY COUNTIES, PA
OU-1 (BAE)

Groundwater VOCs - Bedrock Wells
February 2013 (Post-P&T System Deactivation)
Groundwater Sampling Event

DESIGNED BY: JSE	DRAWN BY: SKJ	UPDATED BY: ----	FIGURE NO.: 16
APPROVED BY:	PROJECT NO.: 1863	DATE: 03/31/14	

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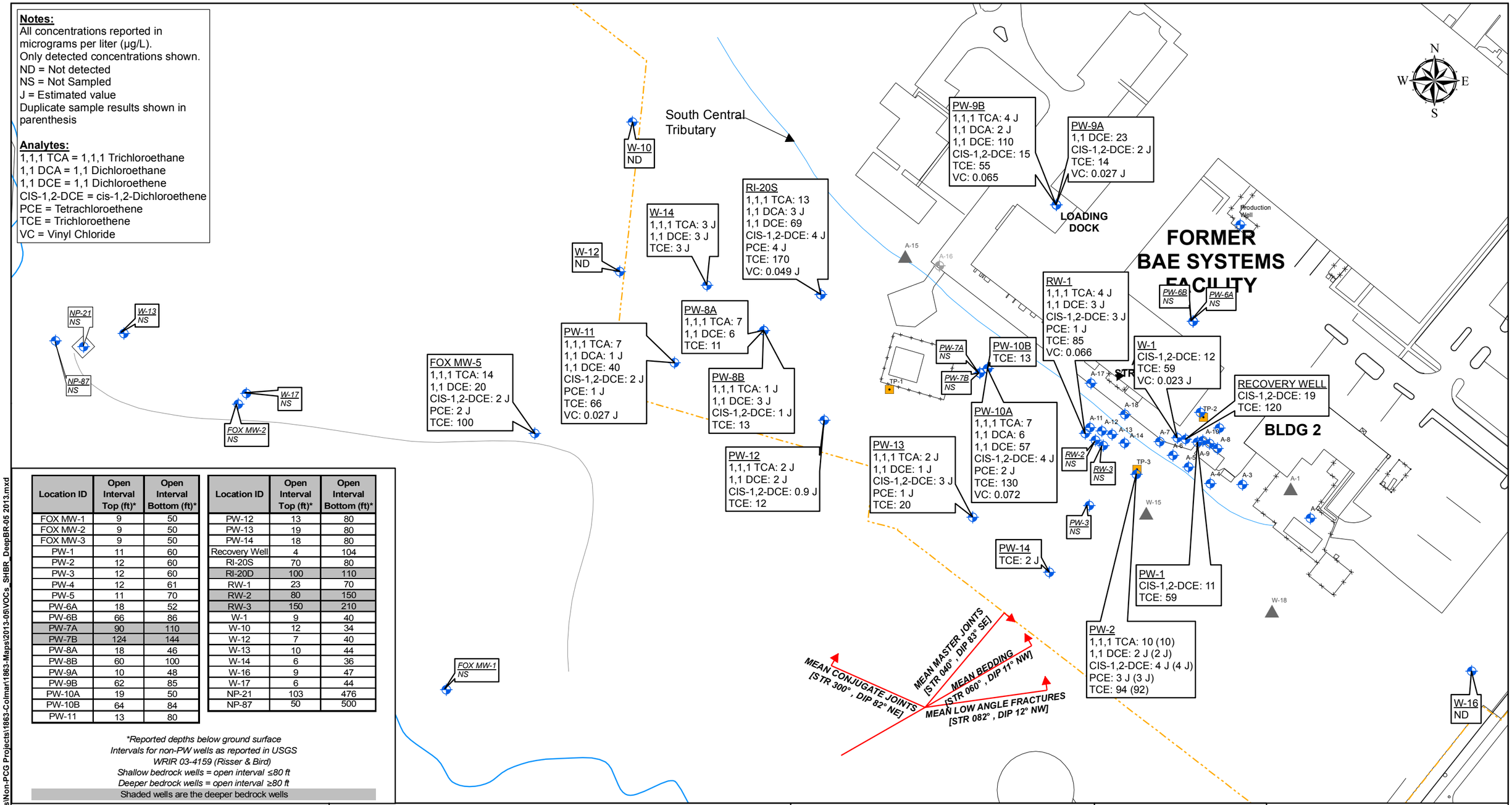
Notes:
All concentrations reported in micrograms per liter (µg/L).
Only detected concentrations shown.
ND = Not detected
NS = Not Sampled
J = Estimated value
Duplicate sample results shown in parenthesis

Analytes:
1,1,1 TCA = 1,1,1 Trichloroethane
1,1 DCA = 1,1 Dichloroethane
1,1 DCE = 1,1 Dichloroethene
CIS-1,2-DCE = cis-1,2-Dichloroethene
PCE = Tetrachloroethene
TCE = Trichloroethene
VC = Vinyl Chloride



Location ID	Open Interval Top (ft)*	Open Interval Bottom (ft)*
FOX MW-1	9	50
FOX MW-2	9	50
FOX MW-3	9	50
PW-1	11	60
PW-2	12	60
PW-3	12	60
PW-4	12	61
PW-5	11	70
PW-6A	18	52
PW-6B	66	86
PW-7A	90	110
PW-7B	124	144
PW-8A	18	46
PW-8B	60	100
PW-9A	10	48
PW-9B	62	85
PW-10A	19	50
PW-10B	64	84
PW-11	13	80

Location ID	Open Interval Top (ft)*	Open Interval Bottom (ft)*
PW-12	13	80
PW-13	19	80
PW-14	18	80
Recovery Well	4	104
RI-20S	70	80
RI-20D	100	110
RW-1	23	70
RW-2	80	150
RW-3	150	210
W-1	9	40
W-10	12	34
W-12	7	40
W-13	10	44
W-14	6	36
W-16	9	47
W-17	6	44
NP-21	103	476
NP-87	50	500

**Reported depths below ground surface*
Intervals for non-PW wells as reported in USGS WRIR 03-4159 (Risser & Bird)
Shallow bedrock wells = open interval ≤80 ft
Deeper bedrock wells = open interval ≥80 ft
Shaded wells are the deeper bedrock wells

MEAN BEDDING, LOW-ANGLE FRACTURE, & HIGH-ANGLE FRACTURE STRIKE & DIP FROM DOWNHOLE OTV SURVEY (ARM GEOPHYSICS, FEB. 2007)

GROUNDWATER RECOVERY SYSTEM (PUMPING WELLS: RECOVERY WELL, RI-20S & RW-1) INACTIVE DURING DATA COLLECTION.

Legend
- Monitoring Well
- Test Pit
- Abandoned Well
- Unlocated Well
- Stream/Tributary
- Site Road
- Property Line
- Swale

0 130 260
Feet

Source: Modified from PASDA Aerial Image
Base Map from Synergy Environmental, Inc.
Base Map from Metz Engineers Survey

Environmental Alliance, Inc.
5341 Limestone Road, Wilmington, DE 19808
Phone: (302) 234-4400 - Fax: (302)234-1535

NORTH PENN AREA 5 SUPERFUND SITE
BUCKS & MONTGOMERY COUNTIES, PA
OU-1 (BAE)

Groundwater VOCs - Bedrock Wells
May 2013 (Post-P&T System Deactivation)
Groundwater Sampling Event

DESIGNED BY: JSE	DRAWN BY: SKJ	UPDATED BY: ---	FIGURE NO.: 17
APPROVED BY:	PROJECT NO.: 1863	DATE: 03/31/14	

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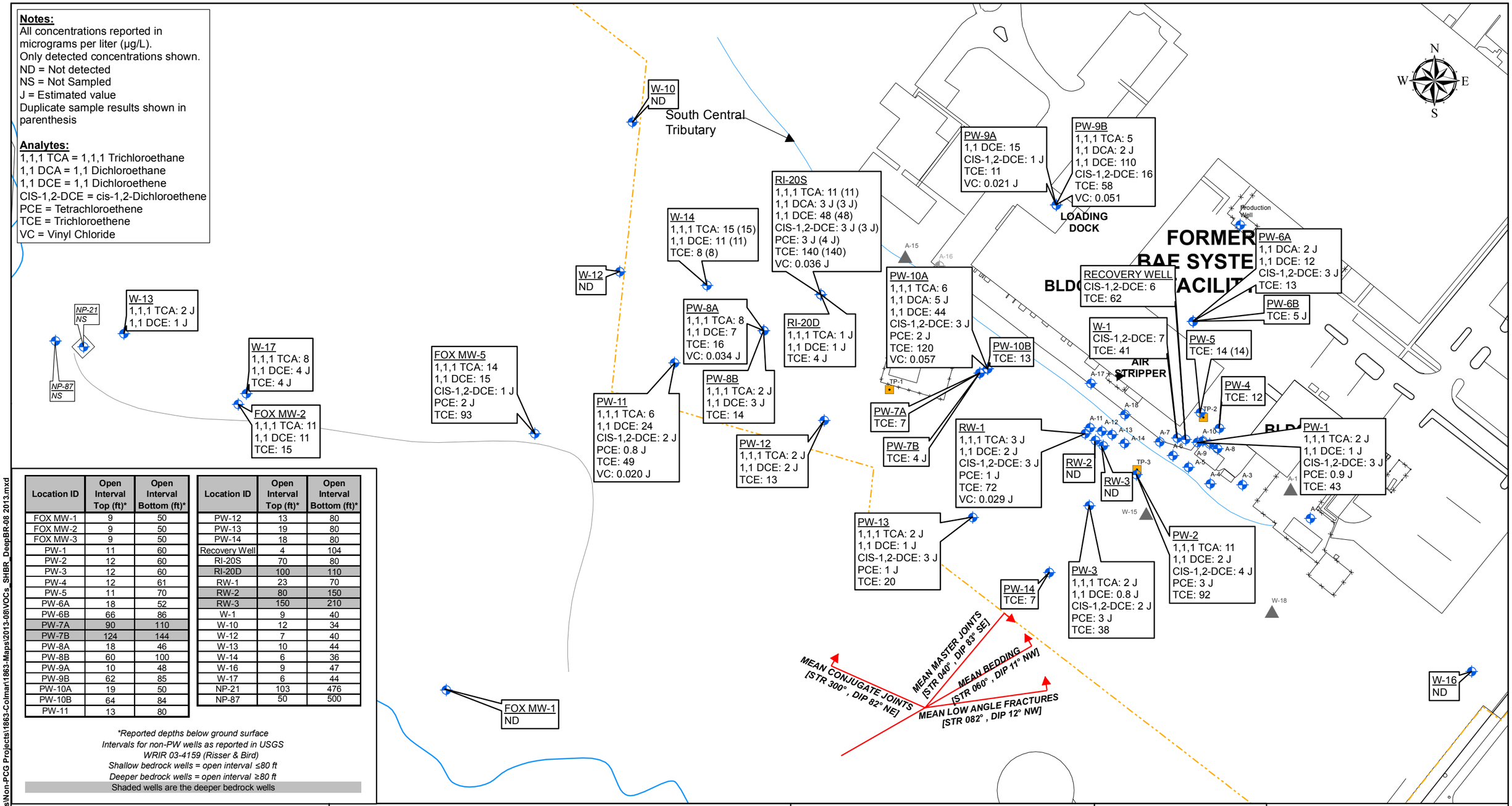
Notes:
All concentrations reported in micrograms per liter (µg/L).
Only detected concentrations shown.
ND = Not detected
NS = Not Sampled
J = Estimated value
Duplicate sample results shown in parenthesis

Analytes:
1,1,1 TCA = 1,1,1 Trichloroethane
1,1 DCA = 1,1 Dichloroethane
1,1 DCE = 1,1 Dichloroethene
CIS-1,2-DCE = cis-1,2-Dichloroethene
PCE = Tetrachloroethene
TCE = Trichloroethene
VC = Vinyl Chloride



Location ID	Open Interval Top (ft)*	Open Interval Bottom (ft)*
FOX MW-1	9	50
FOX MW-2	9	50
FOX MW-3	9	50
PW-1	11	60
PW-2	12	60
PW-3	12	60
PW-4	12	61
PW-5	11	70
PW-6A	18	52
PW-6B	66	86
PW-7A	90	110
PW-7B	124	144
PW-8A	18	46
PW-8B	60	100
PW-9A	10	48
PW-9B	62	85
PW-10A	19	50
PW-10B	64	84
PW-11	13	80

Location ID	Open Interval Top (ft)*	Open Interval Bottom (ft)*
PW-12	13	80
PW-13	19	80
PW-14	18	80
Recovery Well	4	104
RI-20S	70	80
RI-20D	100	110
RW-1	23	70
RW-2	80	150
RW-3	150	210
W-1	9	40
W-10	12	34
W-12	7	40
W-13	10	44
W-14	6	36
W-16	9	47
W-17	6	44
NP-21	103	476
NP-87	50	500

**Reported depths below ground surface*
Intervals for non-PW wells as reported in USGS WRIR 03-4159 (Risser & Bird)
Shallow bedrock wells = open interval ≤80 ft
Deeper bedrock wells = open interval ≥80 ft
Shaded wells are the deeper bedrock wells

MEAN BEDDING, LOW-ANGLE FRACTURE, & HIGH-ANGLE FRACTURE STRIKE & DIP FROM DOWNHOLE OTV SURVEY (ARM GEOPHYSICS, FEB. 2007)

GROUNDWATER RECOVERY SYSTEM (PUMPING WELLS: RECOVERY WELL, RI-20S & RW-1) INACTIVE DURING DATA COLLECTION.

Legend
- Monitoring Well
- Test Pit
- Abandoned Well
- Unlocated Well
- Stream/Tributary
- Site Road
- Property Line
- Swale

0 130 260
Feet

Source: Modified from PASDA Aerial Image
Base Map from Synergy Environmental, Inc.
Base Map from Metz Engineers Survey

Environmental Alliance, Inc.
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NORTH PENN AREA 5 SUPERFUND SITE
BUCKS & MONTGOMERY COUNTIES, PA
OU-1 (BAE)

Groundwater VOCs - Bedrock Wells
August 2013 (Post-P&T System Deactivation)
Groundwater Sampling Event

DESIGNED BY: JSE	DRAWN BY: SKJ	UPDATED BY: ---	FIGURE NO.: 18
APPROVED BY:	PROJECT NO.: 1863	DATE: 03/31/14	

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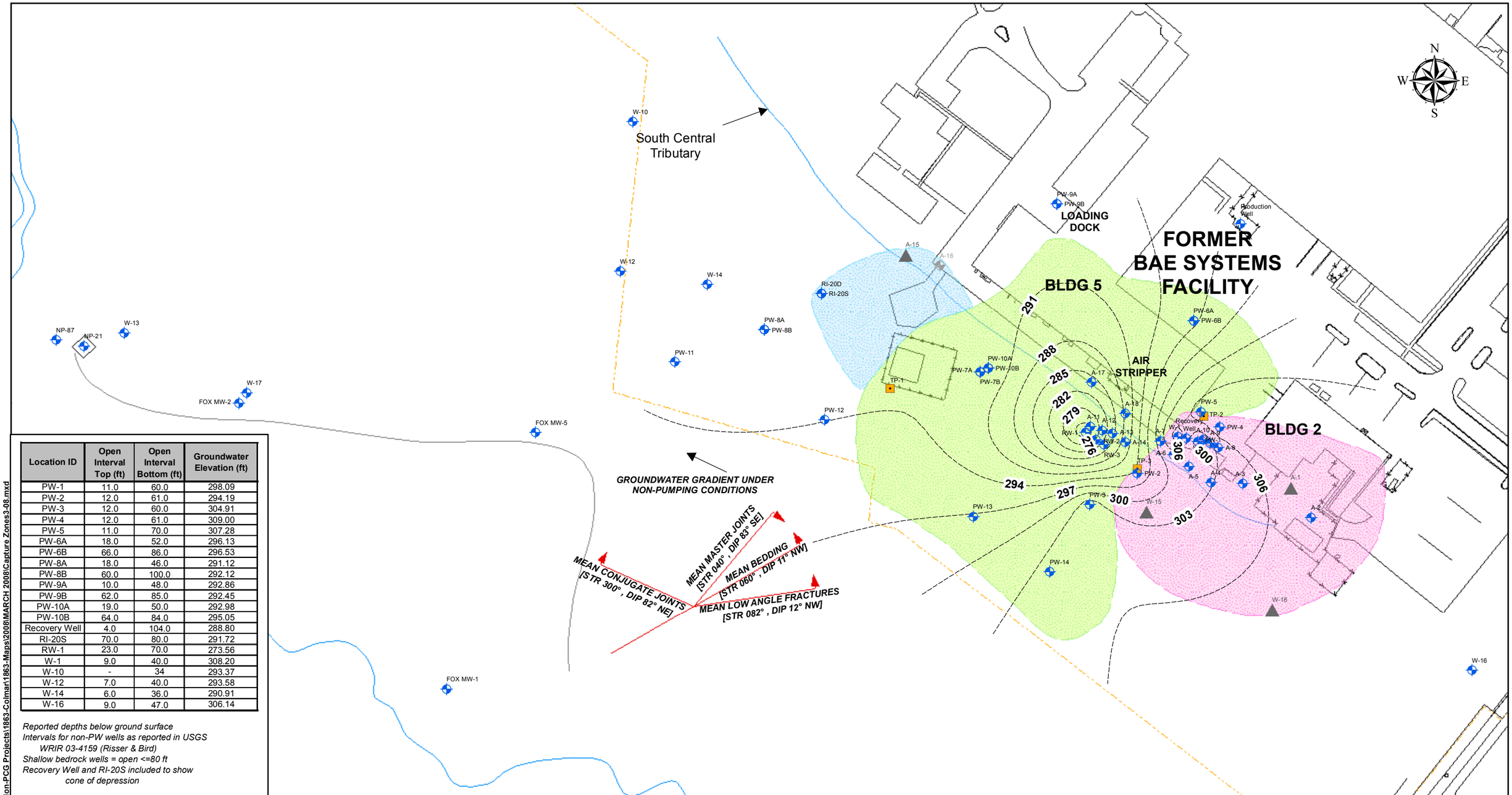

Location ID	Open Interval Top (ft)	Open Interval Bottom (ft)	Groundwater Elevation (ft)
PW-1	11.0	60.0	298.09
PW-2	12.0	61.0	294.19
PW-3	12.0	60.0	304.91
PW-4	12.0	61.0	309.00
PW-5	11.0	70.0	307.28
PW-6A	18.0	52.0	296.13
PW-6B	66.0	86.0	296.53
PW-8A	18.0	46.0	291.12
PW-8B	60.0	100.0	292.12
PW-9A	10.0	48.0	292.86
PW-9B	62.0	85.0	292.45
PW-10A	19.0	50.0	292.98
PW-10B	64.0	84.0	295.05
Recovery Well	4.0	104.0	288.80
RI-20S	70.0	80.0	291.72
RW-1	23.0	70.0	273.56
W-1	9.0	40.0	308.20
W-10	-	34	293.37
W-12	7.0	40.0	293.58
W-14	6.0	36.0	290.91
W-16	9.0	47.0	306.14

Reported depths below ground surface
Intervals for non-PW wells as reported in USGS WRIR 03-4159 (Risser & Bird)
Shallow bedrock wells = open <=80 ft
Recovery Well and RI-20S included to show cone of depression

NOTES:
- Mean Bedding, Low-Angle Fracture, & High-Angle Fracture Strike & Dip from Downhole OTV Survey (ARM GEOPHYSICS, FEB. 2007)
- Capture zones inferred based on groundwater elevation contours and assuming isotropic conditions.
- Groundwater recovery system (Pumping wells: Recovery Well, RI-20S & RW-1)
- Due to low average pumping rate (~0.8 gpm), Cone-of-Depression around RI-20S is not apparent. Inferred capture zone for RI-20S based on groundwater elevation contours and other inferred capture zones.
- Wells PW-11 through PW-14 installed in August 2009 and not used in contouring.

Legend
- Monitoring Well
- Test Pit
- Abandoned Well
- Unlocated Well
- Groundwater Elevation Contour (ft)
- Stream/Tributary
- Site Road
- Property Line
- Interpreted Capture Zone for RI-20S
- Interpreted Capture Zone for RW-1
- Interpreted Capture Zone for Recovery Well

0 130 260
Feet

Source: Modified from PASDA Aerial Image
Base Map from Synergy Environmental, Inc.
Base Map from Metz Engineers Survey

Environmental Alliance, Inc.
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Phone: (302) 234-4400 - Fax: (302)234-1535

NORTH PENN AREA 5 SUPERFUND SITE
BUCKS & MONTGOMERY COUNTIES, PA
OU-1 (BAE)

Interpreted Capture Zones
March 2008 Pumping Conditions

DESIGNED BY: CTP	DRAWN BY: SKJ	UPDATED BY: ---	FIGURE NO.: 19
APPROVED BY:	PROJECT NO.: 1863	DATE: 03/31/14	

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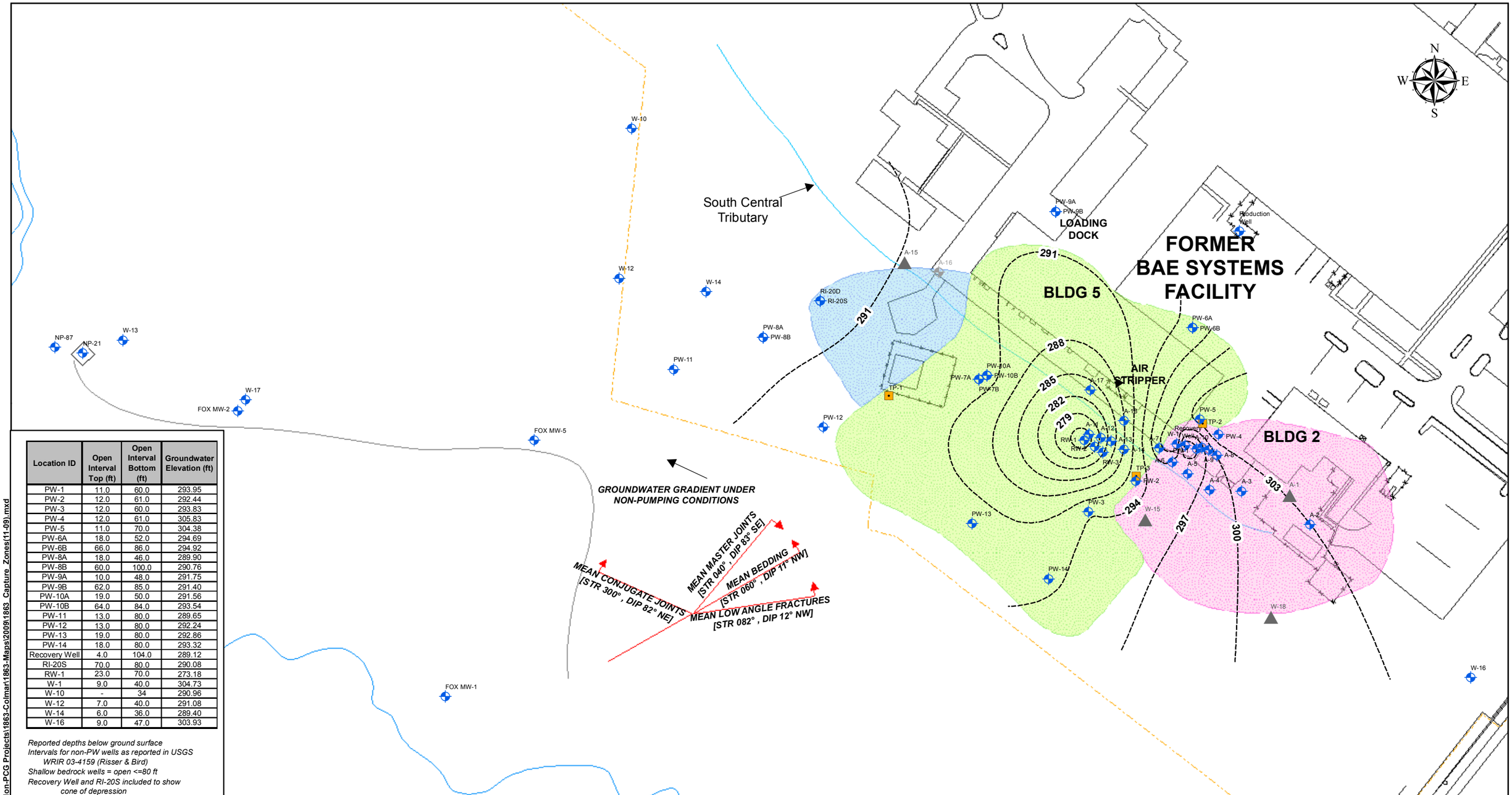

Location ID	Open Interval Top (ft)	Open Interval Bottom (ft)	Groundwater Elevation (ft)
PW-1	11.0	60.0	293.95
PW-2	12.0	61.0	292.44
PW-3	12.0	60.0	293.83
PW-4	12.0	61.0	305.83
PW-5	11.0	70.0	304.38
PW-6A	18.0	52.0	294.69
PW-6B	66.0	86.0	294.92
PW-8A	18.0	46.0	289.90
PW-8B	60.0	100.0	290.76
PW-9A	10.0	48.0	291.75
PW-9B	62.0	85.0	291.40
PW-10A	19.0	50.0	291.56
PW-10B	64.0	84.0	293.54
PW-11	13.0	80.0	289.65
PW-12	13.0	80.0	292.24
PW-13	19.0	80.0	292.86
PW-14	18.0	80.0	293.32
Recovery Well	4.0	104.0	289.12
RI-20S	70.0	80.0	290.08
RW-1	23.0	70.0	273.18
W-1	9.0	40.0	304.73
W-10	-	34	290.96
W-12	7.0	40.0	291.08
W-14	6.0	36.0	289.40
W-16	9.0	47.0	303.93

Reported depths below ground surface
Intervals for non-PW wells as reported in USGS WRIR 03-4159 (Risser & Bird)
Shallow bedrock wells = open <=80 ft
Recovery Well and RI-20S included to show cone of depression

NOTES:
- Mean Bedding, Low-Angle Fracture, & High-Angle Fracture Strike & Dip from Downhole OTV Survey (ARM GEOPHYSICS, FEB. 2007)
- Capture zones inferred based on groundwater elevation contours and assuming isotropic conditions.
- Groundwater recovery system (Pumping wells: Recovery Well, RI-20S & RW-1) active during data collection.
- Due to low average pumping rate (~0.8 gpm), Cone-of-Depression around RI-20S is not apparent. Inferred capture zone for RI-20S based on groundwater elevation contours and other inferred capture zones.
- Wells PW-11 through PW-14 installed in August 2009.

Legend
- Monitoring Well
- Test Pit
- Abandoned Well
- Unlocated Well
- Groundwater Elevation Contour (ft)
- Stream/Tributary
- Site Road
- Property Line
- Swale
- Interpreted Capture Zone for RI-20S
- Interpreted Capture Zone for RW-1
- Interpreted Capture Zone for Recovery Well

0 130 260
Feet

Source: Modified from PASDA Aerial Image
Base Map from Synergy Environmental, Inc.
Base Map from Metz Engineers Survey

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Phone: (302) 234-4400 - Fax: (302)234-1535

NORTH PENN AREA 5 SUPERFUND SITE
BUCKS & MONTGOMERY COUNTIES, PA
OU-1 (BAE)

Interpreted Capture Zones
November 23, 2009 Pumping Conditions

DESIGNED BY:	DRAWN BY:	UPDATED BY:	FIGURE NO.:
----	SKJ	---	20
APPROVED BY:	PROJECT NO.: 1863	DATE: 03/31/14	

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APPENDIX I

FIELD DATA SHEETS

(DISK ENCLOSED)

AND

APPENDIX II

LABORATORY ANALYTICAL REPORTS

(DISK ENCLOSED)

Short plus PW-9A + PW-9B

Well Ref ce Table No. nn

11/15/12 OZ/CES

WELL I.D.	DO	TEMP	DTW	Well Depth (feet below TOC)	Casing Diameter (Inches)	Casing Interval: Top of Casing/Riser	Casing Interval: Bottom of Casing/Riser	Screen/Bore Hole Diameter (Inches)	Screen Interval: Top of Screen/Open Interval	Screen Interval: Bottom of Screen/Open Interval	WATER COLUMN
A-2	Missing		Covered	9.5	6	--	--	6	0	9.5	
A-3	5.03	14.9	3.60	11	6	--	--	6	0	11	
A-4	12.79	15.3	10.36	10	6	--	--	6	0	10	
A-5	2.02	17.3	11.86	12	6	--	--	6	0	12	
A-6	4.35	17.2	11.77	12	6	--	--	6	0	12	
A-7	3.19	17.0	9.28	21	6	--	--	6	0	21	
A-8	DRY			12	6	--	--	6	0	12	
A-9	DRY			13	6	--	--	6	0	13	
A-11	0.06	13.7	15.50	22	6	--	--	6	0	22	
A-12	1.69	14.4	16.37	24	6	--	--	6	0	24	
A-13	0.11	14.6	14.91	19	6	--	--	6	0	19	
A-14	0.22	13.4	12.73	19	6	--	--	6	0	19	
A-16	Abandoned			9.5	6	--	--	6	0	9.5	
A-17	DRY			11.5	6	--	--	6	0	11.5	
A-18	DRY			13	6	--	--	6	0	13	
Fox MW-1	0.02	12.0	5.39	48				6			
Fox MW-2	0.09	11.60	10.80	48				6			
Fox MW-5	1.72	11.70	11.81	48				6			
PW-1	3.64	16.6	13.15	60	6	0	11	3.78	11	60	
PW-2	2.21	13.7	15.79	61	6	0	12	6	12	61	
PW-3	3.14	12.7	13.68	60	6	0	12	3.78	12	60	
PW-4	0.25	15.2	9.71	61	6	0	12	6	12	61	
PW-5	3.40	14.9	9.92	70	6	0	11	3.78	11	70	
PW-6A	0.01	15.8	~~15.80~~	140 → 16.80	6	0.25	18	2	18	52	
PW-6B	0.05	15.4	~~15.40~~	140 → 14.75	6	0.25	66	2	66	86	
PW-7A	0.74	12.5	11.20	180	6	0.25	90	2	90	110	
PW-7B	0.01	12.8	11.21	180	6	0.25	124	2	124	144	
PW-8A	0.08	12.1	14.03	281	6	0.25	18	2	18	46	
PW-8B	0.14	12.8	12.40	281	6	0.25	60	2	60	100	
PW-9A	No OD		17.31	280	6	0.25	10	1	10	48	
PW-9B			17.56	280	6	0.25	62	1	62	85	
PW-10A	0.10	12.6	17.44	88.5	6	0.25	19	2	19	50	

Short PLUS

Well Re[illegible]ce Table
No. [illegible]nn

11/15/12 DZ/CES

PW-9A + PW-9B

WELL I.D.	DO	TEMP	DTW	Well Depth (feet below TOC)	Casing Diameter (Inches)	Casing Interval: Top of Casing/Riser	Casing Interval: Bottom of Casing/Riser	Screen/Bore Hole Diameter (Inches)	Screen Interval: Top of Screen/Open Interval	Screen Interval: Bottom of Screen/Open Interval	WATER COLUMN
PW-10B	0.01	12.9	13.80	88.5	6	0.25	64	2	64	84	
PW-11	0.48	14.2	13.78	80	6	--	--	6	13	80	
PW-12	0.16	12.6	~~[illegible]~~	13.10 80	6	--	--	6	13	80	
PW-13	0.55	12.3	15.02	80	6	--	--	6	19	80	
PW-14	3.47	11.60	16.30	80	6	--	--	6	18.0	80	
Recovery Well	4.76	16.5	15.06								
RI-19D	0.11	12.6	4.75	80				2	70	80	
RI-19S	0.08	12.7	4.74	58				2	46	56	
RI-20D	0.07	13.2	9.53	110				2	100	110	
RI-20S	1.06	12.5	12.92	80				2	70	80	
RW-1	1.78	12.7	15.11	70				6	23	70	
RW-2	0.25	12.8	11.30	150				6	80	150	
RW-3	0.11	12.4	5.38	210				6	150	210	
W-1	1.01	15.8	9.46	40				3.5	9	40	
W-3	0.22	12.8	7.06	23				3.5	12	23	
W-4	2.01	12.2	6.97	30				3.5	16	30	
W-8	0.37	12.1	4.39	30				3.5	15	30	
W-10	2.25	13.1	11.13	34				2	7	47	
W-12	~~8.90~~	12.3	~~12.30~~	40	8.90 DTW | 2.11 DO | 12.3 Temp |			3.5	7	40	
W-13	0.57	11.4	5.88	44				3.5	10	44	
W-14	0.63	12.5	12.41	36				3.5	6	36	
W-16	0.74	12.7	13.74	47				3.5	9	47	
W-17	0.05	12.3	8.70	44				3.5	6	44	

TOC - Top of Casing

	DO	Temp	DTW
RI29	0.81	16.0	7.29
RI30	2.97	12.90	6.08
RI31	6.89	12.8	7.55 ~~[illegible]~~
W-9	2.10	12.6	6.09

~~W-6~~	DO	Temp	DTW
W-6	3.05	13.7	8.87
RW-6S	0.17	13.2	7.46
RW-6D	0.17	12.90	~~0.18~~ ← 0.18 ~~[illegible]~~ DZ
RW-6I	0.11	13.3	7.09
RW-5S	0.60	12.6	10.75
RW-5I	0.08	12.90	10.94
RW-5D	0.02	12.80	10.47
RW-4S	0.14	12.1	6.70
RW-4I	0.22	13.30	6.97
RW-4D	0.01	13.00	9.06

ARTesian DZ ~~[illegible]~~

pCloudy 36°F

GROUNDWATER SAMPLING FIELD DATA SHEET

DATE: 11/16/12 SITE/PROJECT: Former BAE / 1863 SAMPLING TEAM: Digital / manual DZ/CES

	WELL INFORMATION						PURGE INFORMATION			PARAMETERS								SAMPLING		
	SAMPLE LOCATION	DTW (REF.)	WELL DEPTH	WELL DIAM.	WATER COLUMN	VOLUME TO PURGE	VOLUME PURGED	RATE (gpm)	METHOD	TIME	°C TEMP	MS/cm COND	DO	pH	mV ORP	NTU Trub	mg/L Fe	TIME	METHOD	
1	RJ-19s	56	58	2"	Decon 100FT		5 40		G	0806	12.68	0.346		6.43	-49	22.6	2.36	0825	G	3
										0816	12.81	0.341		6.93	-55	22.0	1To1			
										0821	12.83	0.343		6.94	-56	20.8				
										0824	12.84	0.340		6.94	-57	19.3	5.7			
	RJ-19D	78	80	2"	Decon 100FT		50		G	0833	12.70	0.352		6.94	-50	23.1	3.11	0855	G	3
										0838	12.94	0.353		7.02	-73	20.7				
										0845	12.94	0.358		7.08	-43	11.2				
										0853	12.95	0.355		7.10	-65	4.1	3.8			
15	W-10	32	34	3.5"			20		G	0910	11.97	0.772		6.83	17	58.1		0925	G	3
										0914	12.22	0.583		6.34	119	71.3	0.51			
										0919	12.61	0.529		6.33	143	88.6				
										0924	12.68	0.528		6.37	147	90.9	0.4			
15	W-12	45	47	3.5"			25		G	0930	12.21	1.17		5.08	270	43.1	0.27	0945	G	3
										0936	12.59	1.16		5.07	340	38.1				
										0940	12.62	1.16		5.06	344	36.9				
										0944	12.60	1.14		5.08	339	43.2	0.0			
140	W-14	45	47	3.5"			22		G	0950	11.70	0.689		6.76	239	43.9	0.26	1005	G	3
										0954	11.82	0.672		6.99	221	37.1				
										0958	11.87	0.680		7.31	191	41.6				
										1004	11.89	0.679		7.43	179	37.2	0.2			
155	W-16	45	47	3.5"			40		G	1021	10.69	0.628		7.44	161	38.3	0.17	1055	G	6
										1026	12.80	0.567		7.25	157	36.1				
										1040	13.07	0.553		7.18	144	39.6				
										1054	13.07	0.552		7.17	141	40.9	0.2			
5	PW-14	77	80	6"	Decon 100FT		80		G	1137	12.69	0.751		5.77	247	58.1	0.50	1225	G	3
										1151	12.90	0.718		6.15	221	40.1				
										1209	12.95	0.693		6.36	204	19.1				
										1222	12.87	0.686		6.46	193	13.3	0.0			

1" Well - 0.04
2" Well - 0.163
4" Well - 0.653
6" Well - 1.470

COMMENTS: RJ-19s: 1To1 DILUTION 2.36 197 GAL

GROUNDWATER SAMPLING FIELD DATA SHEET

DATE: 11/16/12 / 11/19/12 SUNNY 36°F

SITE/PROJECT: Former BAT/1863

SAMPLING TEAM: Digital / manual DZ/CES

	WELL INFORMATION						PURGE INFORMATION			PARAMETERS								SAMPLING		
	SAMPLE LOCATION	DTW (REF.)	WELL DEPTH	WELL DIAM.	WATER COLUMN	VOLUME TO PURGE	VOLUME PURGED	RATE (gpm)	METHOD	TIME	°C TEMP	mS/cm COND	DO	pH	mV ORP	NTU Trub	mg/l Fe	TIME	METHOD	
1:25	PW-12	77	80	6"	Decon 100FT		80			1238	12.69	1.05		7.11	138	26.1	0.10	1325	G	3
										1257	12.71	1.05		7.50	26	17.1				
										1307	12.67	1.05		7.51	29	13.3	0.2			
										1322	12.72	1.05		7.52	31	8.9				
11/19/12	W-3	22	23	3.5"			22			0816	13.09	0.441		6.85	35	201	2.36	0845	G	3
										0822	13.42	0.444		6.62	1	151	1 To 1			
										0830	13.43	0.447		6.60	-9	101	2.0			
										0841	13.45	0.447		6.59	-11	92				
0:5	PW-10B	82	84	2"			40			0853	12.23	0.689		7.17	-11	125	0.35	0920	G	3
										0900	12.94	0.676		7.65	-37	25.0				
										0908	12.94	0.685		7.68	-39	9.1	0.20			
										0918	12.95	0.686		7.69	-31	6.3				
55	PW-13	70	88	6"	Decon 100FT		80			0926	12.55	0.822		7.75	13	31.7	0.33	1000	G	3
										0940	12.67	0.849		7.79	29	26.3				
										0955	12.71	0.863		7.79	25	21.3	0.6			
										1009	12.73	0.866		7.78	22	15.1				
155	Recovery well	92	96	6"	~~[illegible]~~		100			1015	14.91	2.90		6.22	185	34.1		0.39	G	1.050 3
										1027	15.22	2.29		6.40	203	17.1				
										1037	15.20	2.12		6.84	169	13.5				
										1049	15.23	2.10		6.79	153	9.8		0.5		
1:15	RW-1	68	70	6"	Decon 100FT		70			1020	13.07	2.84		6.55	212	28.1		0.36	G	1100 6
										1031	13.24	2.84		7.08	169	22.0				
										1044	13.31	2.77		7.03	160	16.1		0.20		
										1059	13.38	2.74		7.05	167	14.1				
20	PW-8B	98	100	2"			40			1144	12.70	0.852		7.47	-18	72.1	1.00	1215	G	3
										1152	12.78	0.868		7.46	-53	21.3				
										1203	12.90	0.870		7.47	-57	18.0	0.70			
										1214	12.91	0.872		7.46	-49	13.2				

1" Well - 0.04
2" Well - 0.163
4" Well - 0.653
6" Well - 1.470

COMMENTS: W-3: 1 To 1 DILUTION 2.36

432 GAL

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11/19/12

— P cloudy 38°F 37°F

GROUNDWATER SAMPLING FIELD DATA SHEET

DATE: 11/17/12 11/20/12 SUNNY SITE/PROJECT: Former BAE/1363 SAMPLING TEAM: FE Digital / manual DZ/CES

	WELL INFORMATION						PURGE INFORMATION			PARAMETERS								SAMPLING		
	SAMPLE LOCATION	DTW (REF.)	WELL DEPTH	WELL DIAM.	WATER COLUMN	VOLUME TO PURGE	VOLUME PURGED	RATE (gpm)	METHOD	TIME	TEMP °C	COND mS/cm	DO	pH	ORP mV	Trub NTU	Fe mg/l	TIME	METHOD	VOAS
55	PW-1	58	60	6"			70		G	1231	17.39	3.20		5.57	201	43.1	0.47	1310	G	3
										1243	18.01	3.24		5.33	290	32.6				
										1254	17.82	3.17		5.48	288	31.3	0.30			
										1307	17.91	3.10		5.60	283	29.1				
128	W-1	38	40	3.5"			40		G	1326	16.60	2.57		6.31	218	61.3	1.05	1355	G	6
										1335	17.52	1.31		6.48	205	89.1				
										1345	17.61	1.46		6.49	194	91.3	0.60			
										1354	17.59	1.51		6.50	189	90.3				
155	PW-8A	44	46	2"			30		G	1408	13.59	0.691		7.46	167	61.1	0.67	1425	G	6
										1413	13.56	0.668		7.33	163	35.1				
										1419	13.27	0.675		7.45	148	33.2	0.40			
										1424	13.29	0.671		7.47	142	30.8				
185	PW-11	77	80	6"	Decon 100FT Tubing		80		G	1428	12.58	0.851		7.62	13	46.1	0.64	1515	G	6
										1446	12.63	0.794		7.73	48	33.5				
										1457	12.55	0.789		7.73	51	34.6	0.40			
										1514	12.57	0.785		7.73	56	33.8				
11/20/12	PW-2	57	59	6"			60		G	0808	14.18	2.29		6.09	302	31.5	0.34	0835	G	3
										0816	14.27	2.29		6.05	283	28.7				
										0825	14.50	2.29		6.04	255	23.5	0.20			
										0834	14.60	2.29		6.05	246	20.1				
50	Fox MW-5	43	48	6"			72		G	0847	12.45	0.665		7.37	-21	59.9	0.65	0930	G	DUP 3+3 8260
										00900	12.47	0.675		7.71	-40	48.6				
										0911	12.44	0.678		7.73	-41	43.2	0.50			
										0929	12.46	0.681		7.74	-38	32.1				
140	PW-10A	48	50	2"			35		G	0941	13.25	1.20		7.17	176	89.1	0.29	1000	G	6
										0947	13.27	1.18		7.17	163	31.3				
										0951	13.21	1.16		7.19	154	22.1	0.20			
										0959	13.20	1.16		7.19	150	19.7				

1" Well - 0.04
2" Well - 0.163
4" Well - 0.653
6" Well - 1.470

COMMENTS: 819602

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FE

GROUNDWATER SAMPLING FIELD DATA SHEET

DATE: 11/20/12 SUNNY 40°F

SITE/PROJECT: Former BAE 1863

SAMPLING TEAM: Digital / Manual DZ/CES VOAS

	WELL INFORMATION						PURGE INFORMATION			PARAMETERS								SAMPLING		
	SAMPLE LOCATION	DTW (REF.)	WELL DEPTH	WELL DIAM.	WATER COLUMN	VOLUME TO PURGE	VOLUME PURGED	RATE (gpm)	METHOD	TIME	°C TEMP	mS/cm COND	DO	pH	mV ORP	NTU Trub	mg/l Fe	TIME	METHOD	
155	RI-205	77	80	2"			50		G	1009	13.01	0.888		7.52	149	81.9	0.56	1035	G	6
										1016	13.26	0.923		7.64	146	37.8				
										1022	13.31	0.935		7.68	145	27.0	0.20			
										1034	13.29	0.944		7.70	145	19.8				
210	W-4	28	30	3.5"			35		G	1051	12.71	0.150		6.39	174	131	0.99	1125	G	3
										1100	13.98	0.117		5.49	234	25.1				
										1107	14.05	0.117		5.40	255	20.2	0.40			
										1123	14.13	0.116		5.40	263	18.1				
	PW-9A						3		P	1138	15.39	1.16		7.26	297	24.5	0.28	1205	P	6
										1145	15.44	1.17		7.22	281	23.6				
										1155	15.33	1.14		7.25	264	23.9	0.40			
										1200	15.27	1.10	1.38	7.28	253	23.9				
	PW-9B						5		P	1207	15.23	0.818		7.49	-117	30.1	0.15	1255	P	6
										1219	14.95	0.632		7.81	-19	23.8				
										1231	14.93	0.639		7.84	19	24.6	0.30			
										1247	14.90	0.642	9.79	7.82	45	24.7				
	EFFLUENT									1328	11.39	1.55		8.46	176	53.1		1335		3
										1330	11.85	1.16		8.70	182	41.3				
										1332	12.15	1.09		8.68	184	32.3				
										1334	12.25	1.08		8.69	185	27.6				
	FIELD BLANK	1400 6 VOAS																		
	RINSale blank	1415 3 VOAS																		

1" Well - 0.04
2" Well - 0.163
4" Well - 0.653
6" Well - 1.470

COMMENTS:

912 + 40 = 1082 GALS

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manual
digital

GROUNDWATER SAMPLIN ELD DATA SHEET

DATE: 11/28/12 SITE/PROJECT: BAE 1863 SAMPLING TEAM: CES

WELL INFORMATION						PURGE INFORMATION			PARAMETERS								SAMPLING	
SAMPLE LOCATION	DTW (REF.)	WELL DEPTH	WELL DIAM.	WATER COLUMN	VOLUME TO PURGE	VOLUME PURGED	RATE (gpm)	METHOD	TIME	TEMP	COND	DO	pH	ORP	Trub	Fe	TIME	METHOD
W8	5.14	30	3½		30				1114	8.04	1.21	21.03	6.61	194	12.7	1.0	1140	
									1121	13.48	0.556	11.35	6.10	172	10.4			
									1125	13.61	0.337	8.49	6.07	175	0.0	0.51		
									1130	13.72	0.304	6.21	6.05	178	0.0			
RC31	8.20	8.23	—	Did not Sample			—	—										

1" Well - 0.04
2" Well - 0.163
4" Well - 0.653
6" Well - 1.470

COMMENTS:

Depth to Water Sampling List
Former BAE Facility
Lansdale, Pennsylvania

Sampling Crew: DZ/CES Date: 02/04/13 Weather: Cloudy 26°F

Sampling Location	Location	Depth to Water	Down Hole ~~Temperature~~	Down Hole ~~Dissolved Oxygen~~	
		feet	DO mg/L	Temp °F	
W-1	OU-1	6.72	5.58	15.64	
W-16	OU-1	11.49	1.23	12.00	
W-10	OU-1	9.23	3.36	11.10	
W-12	OU-1	7.10	4.22	11.30	
W-14	OU-1	10.93	6.50	11.00	
Recovery Well	OU-1	13.56	0.53	15.60	
RW-1	OU-1	13.47	1.17	13.00	
RW-2	OU-1	9.40	0.55	11.88	
RW-3	OU-1	1.82	0.43	11.96	
RI-20S	OU-1	11.93	1.42 ~~12.8~~	1.42	12.80
RI-20D	OU-1	8.36	0.18 ~~12.08~~	0.18	12.08
PW-1	OU-1	11.95	2.95	13.60	
PW-2	OU-1	14.02	3.16	15.90	
PW-3	OU-1	9.30	3.44	12.80	
PW-4	OU-1	6.74	0.24	16.20	
PW-5	OU-1	6.63	3.18	15.80	
PW-6A	OU-1	14.20	6.28	16.80	
PW-6B	OU-1	13.24	0.19	15.1	
PW-7A	OU-1	10.05	0.94	12.50	
PW-7B	OU-1	10.07	0.34	11.76	
PW-8A	OU-1	12.82	0.66	12.50	
PW-8B	OU-1	11.39	0.41	11.77	
PW-9A	OU-1	16.43	NA	NA	
PW-9B	OU-1	16.44	NA	NA	
PW-10A	OU-1	15.61	0.45	12.80	
PW-10B	OU-1	11.94	0.37	12.80	
PW-11	OU-1	12.69	0.63	12.30	
PW-12	OU-1	11.94	0.36	12.20	
PW-13	OU-1	13.40	0.80	12.30	
PW-14	OU-1	14.38	6.10	12.20	
A-2	OU-1	MISSING			
A-3	OU-1	2.74	6.90	9.20	
A-4	OU-1	7.61	5.10	9.10	
A-5	OU-1	8.62	4.95	12.40	
A-6	OU-1	8.73	7.54	10.96	
A-7	OU-1	6.81	4.30	11.80	
A-8	OU-1	7.42	5.35	13.6	
A-9	OU-1	9.37	5.54	12.70	
A-11	OU-1	10.52	7.06	12.0	
A-12	OU-1	11.95	0.47	13.7	
A-13	OU-1	10.64	0.98	14.1	
A-14	OU-1	9.47	4.04	13.1	
A-16	ABANDONED				
A-17	OU-1	DRY			
A-18	OU-1	DRY			
Fox MW-1	Off-Site	4.70	0.25	12.4	
Fox MW-2	Off-Site	10.44	0.25	11.60	
Fox MW-5	Off-Site	10.88	1.15	12.10	
W-8	Off-Site	2.38	1.58	12.3	
W-13	Off-Site	5.42	1.23	12.8	
W-17	Off-Site	3.08	0.24	12.8	
W-4	OU-2	4.89	3.72	12.5	
W-3	OU-2	5.51	0.92	12.3	
RI-19S	OU-2	3.38	1.02	12.6	
RI-19D	OU-2	3.42	0.88	12.8	
RI-31	OU-2	5.49	4.71	10.5	
RW-4D	OU-2	7.40	0.29	11.80	
RW-4S	OU-2	4.55	0.86	12.60	
RW-4I	OU-2	5.13	0.41	11.75	
RW-5D	OU-2	8.68	0.22	11.91	
RW-5I	OU-2	8.98	0.26	11.84	
RW-5S	OU-2	8.54	1.97	13.3	

GROUNDWATER SAMPLING FIELD DATA SHEET

DATE: 02/05/13 SITE/PROJECT: Former BAE/1863 SAMPLING TEAM: Cloudy 26°F DZ/CES

WELL INFORMATION		PURGE	PARAMETERS							02/04/13 DIGITAL			SAMPLING		
SAMPLE LOCATION	WELL DIAM.	RATE 6PM	TIME	TEMP (C)	COND ms/cm (us/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)	DOWNHOLE DO (mg/L)	FERROUS IRON (mg/L)	PURGE VOLUME	TIME	TANK	COMMENTS
RI-195	2" 56'	2	0815	11.71	0.345	3.28	6.78	46	81.7	1.02	2.50 2To1	40	0840	DZ	3 VOAS New 100FT Tubing
			0824	11.87	0.340	1.70	6.79	-12	73.7						
			0829	11.87	0.342	1.97	6.81	-25	66.6						
			0837	11.92	0.342	0.98	6.83	-44	40.9						
RI-190	2" 78'	1.8	0847	11.92	0.360	4.80	6.93	-56	17.1	0.88	2.93 1To1	50	0915	40	3 VOAS Decon 100FT Tubing
			0855	12.03	0.358	4.06	6.97	-67	14.6						
			0905	12.13	0.357	3.49	6.98	-74	14.5						
			0914	12.19	0.355	2.89	6.98	-78	14.1						
W-10	3.5" 32'	1.5	0950	11.02	0.306	5.11	5.75	75	54.1	3.36	0.42	20	1005	105	3 VOAS
			0954	10.46	0.309	3.92	5.62	78	70.1						
			0959	10.44	0.309	5.76	5.82	143	85.1						
			1004	10.37	0.311	5.60	5.83	151	93.6						
W-12	3.5" 45'	2.0	1014	9.96	0.418	6.14	5.05	217	47.1	4.22	0.28	25	1030	125	3 VOAS
			1020	9.96	0.421	6.20	5.03	237	61.3						
			1024	9.94	0.423	6.12	5.13	235	84.6						
			1028	9.96	0.423	6.08	5.14	233	91.7						
W-14	3.5" 45'	1.2	1041	9.87	0.127	6.61	5.29	247	44.3	6.50	0.59	22	1055	165	3 VOAS
			1045	10.33	0.111	9.75	5.26	263	63.1						
			1049	10.36	0.130	9.74	5.61	257	60.3						
			1054	10.35	0.141	9.55	5.74	257	46.4						
W-16	3.5" 45	1.50	1140	12.00	0.552	5.37	6.51	197	153	1.23	2.88	40	1215	40	6 VOAS
			1148	12.13	0.543	2.87	6.79	170	131						
			1155	12.10	0.534	2.45	6.98	134	127						
			1204	12.11	0.534	2.21	7.00	129	124						
PW-14	6" 77'	1.60	1323	11.46	0.128	6.91	6.00	210	104	6.70	2.69 2To1	80	1410	DZ	3 VOAS Decon 100FT Tubing
			1340	11.62	0.164	9.81	5.95	263	81.4						
			1350	11.65	0.215	9.24	6.17	264	40.1						
			1409	11.72	0.243	8.64	6.20	262	31.3						

COMMENTS: Totalizer 42366951 1110-1130 purge GW into AST
Benard PADEP will be onsite to split EFF AST on 02/06/13.
1430-1515: purge All GW/Decon water into AST.
1515 offsite

GROUNDWATER SAMPLING FIELD DATA SHEET

DATE: 02/06/13 SITE/PROJECT: Former BAE/1863 SAMPLING TEAM: OZ/CES Cloudy 29°F

WELL INFORMATION		PURGE	PARAMETERS							02/04/13 DIGITAL		SAMPLING			
SAMPLE LOCATION	WELL DIAM.	RATE GPM	TIME	TEMP (C)	COND mS/cm (us/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)	DOWNHOLE DO (mg/L)	FERROUS IRON (mg/L)	PURGE VOLUME	TIME	TANK	COMMENTS
PW-12	6" 77'	~2.2	0833	10.73	1.01	6.23	7.19	253	38.3	0.36	0.47	80	0910	0	3 VOAS
			0848	11.27	1.01	0.76	7.38	192	31.9						
			0858	11.40	1.01	0.65	7.40	170	32.4						
			0909	11.37	1.01	0.55	7.41	139	13.7						
W-3	3.5" 22'	~1.9	0934	10.69	0.424	1.15	7.01	132	48.1	0.92	2.00	22	0950	82	3 VOAS
			0938	11.38	0.425	0.50	6.53	65	139						
			0942	11.46	0.426	0.49	6.51	56	131						
			0946	11.50	0.427	0.48	6.49	52	129						
PW-10B	2" 82'	~1.8	1008	11.71	0.669	1.49	7.27	37	42.9	0.37	0.69	40	1035	on hill 120	3 VOAS
			1015	11.93	0.654	0.63	7.50	18	20.3						
			1024	12.04	0.661	0.52	7.55	19	12.9						
			1034	12.06	0.664	0.49	7.57	22	11.4						
PW-13	6" 77	~2.0	1040	11.46	0.826	1.31	7.62	63	35.3	0.80	2.73 1.61	80	1120	FLAT 150	3 VOAS
			1053	11.58	0.838	1.16	7.62	72	48.1						
			1104	11.67	0.839	1.17	7.62	80	61.8						
			1119	11.66	0.837	1.19	7.60	85	54.8						
Recovery well	6" 92'	~2.5	1252	15.02	3.20	8.69	6.03	236	100	0.53	0.12	100	1335	16	3 VOAS
			1308	14.76	2.68	6.58	6.26	233	39.5						
			1320	14.78	2.61	3.14	6.36	234	30.0						
			1334	14.50	2.45	2.98	6.35	237	29.3						
RW-1	6" 68'	1.5-1.8	1302	12.10	2.47	5.01	6.62	223	72.1	1.97	0.97	70	1345		Decon 100 FT 9 VOAS 2484
			1316	12.18	2.48	4.12	6.44	229	32.3						
			1330	12.24	2.32	3.24	6.91	221	16.6						
			1343	12.23	2.37	3.16	6.97	219	16.4						
W-8	3.5" 28'	~1.5	1422	10.82	0.800	3.03	5.86	245	18.7	1.58	0.09	30	1445	210	new tubing 3 VOAS
			1430	10.78	0.385	2.53	5.88	239	14.4						
			1438	10.63	0.316	2.52	5.80	235	14.1						
			1444	10.72	0.307	2.51	5.77	231	13.9						

COMMENTS:

EFFLUENT Temp COND DO pH TURB TIME 1210 2484

COND 0.861 5.07 ~~155~~ 15.63 8.25 233

COND 0.867 5.74 ~~155~~ 15.06 8.28 200

7.10 0.855 14.54 8.25 181

pH 8.25

GROUNDWATER SAMPLING FIELD DATA SHEET

02/04/13 Cloudy 28°F

DATE: 02/06/13 / 02/07/13 SITE/PROJECT: Former BAE 1863 SAMPLING TEAM: OE/CES

02/07/13 cloudy 23°F

WELL INFORMATION		PURGE	PARAMETERS							02/04/13 DILUTA			SAMPLING		
SAMPLE LOCATION	WELL DIAM.	RATE GPM	TIME	TEMP (C)	COND mS/cm (us/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)	DOWNHOLE DO (mg/L)	FERROUS IRON (mg/L)	PURGE VOLUME	TIME	TANK	COMMENTS
PW-8B	2" 98'	~1.9	1520	10.87	0.834	3.80	6.86	233	131	0.41	0.40	40	1550	245	3 VOAs
			1527	11.39	0.836	0.75	7.08	149	29.7						
			1536	11.50	0.847	0.62	7.20	59	14.6						
			1548	11.49	0.851	0.51	7.24	30	12.8						
PW-1	6" 58'	~1.5-1.8	0826	16.75	3.02	6.25	5.07	995	56.1	2.95	3.06 1To1	70	0905	18	3 VOAs
			0837	16.70	3.01	5.49	5.19	299	93.7						
			0851	16.71	2.98	5.31	5.31	301	41.1						
			0904	16.79	2.97	6.10	5.31	304	27.3						
W-1	3.5" 38'	0.5-1.0	0835	14.83	2.53	6.93	6.06	268	188	5.58	0.99	40	0925		9 VOAs
			0843	14.47	2.47	6.77	6.43	261	88.4						
			0910	14.48	2.40	7.10	6.48	270	101						
			0924	14.46	2.40	7.15	6.51	265	109						
PW-8A	2" 44'	~1.5	0940	12.05	0.628	3.31	7.43	203	61.3	0.66	1.13	30	1005	150	6 VOAs
			0951	12.42	0.628	1.40	7.33	176	32.1						
			0957	12.41	0.628	1.50	7.33	177	37.3						
			1004	12.42	0.629	1.48	7.32	178	35.3						
PW-11	6" 77'	~2.2'	0953	11.05	0.840	1.03	7.47	187	25.9	0.63	0.97	80	1030		Decon 100 ft tubing 6 VOAs
			1000	11.41	0.828	[illegible]	7.32	196	22.1						
			1007	11.40	0.830	0.963	7.46	170	19.3						
			1028	11.42	0.831	0.961	7.45	166	14.3						
PW-2	6" 57'	~2.0	1051	13.06	1.74	4.30	5.78	229	51.3	3.16	0.26	60	1120		DUP 6 VOAs
			1101	13.16	1.76	4.80	5.77	242	51.0						
			1111	13.36	1.78	5.23	5.79	254	30.4						
			1119	13.41	1.74	5.20	5.77	264	28.9						
Fox MW-5	6" 43'	~1.5-2.0	1144	11.52	0.684	4.72	7.20	233	63.7	1.15	2.56 3To1	72	1230	42	3 VOAs
			1156	11.46	0.683	2.87	7.51	223	97.3						
			1215	11.46	0.678	2.71	7.55	219	62.1						
			1229	11.45	0.680	2.68	7.55	218	38.2						

COMMENTS:

GROUNDWATER SAMPLING FIELD DATA SHEET

DATE: 02/07/13 SITE/PROJECT: Former BAE 1863 SAMPLING TEAM: DZ/CES Cloudy 24°F

WELL INFORMATION		PURGE	PARAMETERS							02/07/13 DISTA			SAMPLING		
SAMPLE LOCATION	WELL DIAM.	RATE GPM	TIME	TEMP (C)	COND mS/cm (us/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)	DOWNHOLE DO (mg/L)	FERROUS IRON (mg/L)	PURGE VOLUME	TIME	TAN	COMMENTS
PW-10A	2" 48'	~1.2	1250	11.59	0.670	1.89	7.44	183	61.3	0.45	0.58	35	1325	155	6 vols
			1259	12.02	0.654	0.80	7.53	143	26.2						
			1310	11.97	0.661	0.43	7.53	123	25.1						
			1322	12.01	0.662	0.39	7.54	120	19.9						
RI-20S	2" 77	~1.5-1.8	1338	12.02	0.861	1.75	7.52	133	51.3	1.42	0.06	50	1415	170	6 vols
			1348	12.01	0.887	1.99	7.54	141	23.9						
			1357	12.02	0.895	1.94	7.57	147	22.1						
			1414	12.04	0.899	2.00	7.57	150	21.3						
W-4	3.5" 28	~	1455	11.28	0.122	4.19	5.48	256	37.3	3.72	0.00	35	1525	20	3 vols New Tubing
			1507	11.20	0.127	4.11	5.03	360	22.7						
			1513	11.15	0.127	4.07	5.06	306	22.3						
			1524	11.09	0.127	4.03	5.04	317	22.0						
RI-31	1" 8.0'	0.10 DTW 8.22 DTB 0.05 LPM	1535	9.22	0.214	3.13	6.46	99	211.1	4.71	2.31 2Tol	0.25	1555		0.10 DTW 6.00 8.22 DTB DTW W/Tubing
			1540	9.09	0.209	3.22	5.69	98	111.9						
			1548	4.30	0.199	3.28	5.52	109	113.3						
			1554	3.78	0.198	3.29	5.49	116	108.6						
FIELD BLANK	6 vols 1630														
RINSATE BLANK	3 vols 1645														

COMMENTS: RI-31 Recharged 4 Times 0.05LPM / TOTALIZER 42368266

GROUNDWATER SAMPLING FIELD DATA SHEET

DATE: 02/11/13 SITE/PROJECT: Former BAE/1863 SAMPLING TEAM: OZ/Ces Light Drizzle 33°F

WELL INFORMATION		PURGE	PARAMETERS							SAMPLING				
SAMPLE LOCATION	WELL DIAM.	RATE	TIME	TEMP (C)	COND (us/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)	DOWNHOLE DO (mg/L)	FERROUS IRON (mg/L)	PURGE VOLUME	TIME	COMMENTS
PW-9A	1"		0948	13.98	1.45	4.82	6.97	246	72.1	NA	0.58	3	1020	6 VOAs
			0956	14.37	1.52	3.13	6.87	253	93.2					
			1002	14.29	1.44	2.90	6.92	253	90.3					
			1018	14.22	1.43	2.73	6.94	251	81.3					
PW-9B	1"		1025	13.77	0.580	1.16	7.60	170	45.7	NA	0.20	5	1055	6 VOAs
			1034	13.81	0.622	0.92	7.62	174	27.1					
			1044	13.86	0.622	0.94	7.68	175	24.3					
			1054	13.87	0.624	0.90	7.65	178	22.1					

COMMENTS:

1 of 3

INSTRUMENT CALIBRATION REPORT

02/05/13 → 02/11/13
MNA SAMPLING
FORMER BAE 1863

Pine Environmental Services, Inc.
92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc. OZ

Instrument ID	21323
Description	Horiba U-52
Calibrated	1/28/2013 2:54:50PM

CALL OFF CONFIRMATION 02/11/13 PO# 5723

J226823 TNR 9406 TRASH pump 1"

J226447 TNR9406 All other Equipment

Manufacturer	Horiba	**State Certified**	
Model Number	U-5000	**Status**	Pass
Serial Number/ Lot Number	8STPPET0	**Temp °C**	20.6
Location	New Jersey	**Humidity %**	26
Department			

Calibration Specifications

Group # 1 — **Range Acc %** 0.0000
Group Name PH — **Reading Acc %** 3.0000
Stated Accy Pct of Reading — **Plus/Minus** 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
7.01 / 7.01	PH	7.01	PH	7.00	7.00	-0.14%	Pass
4.01 / 4.01	PH	4.01	PH	4.00	4.00	-0.25%	Pass

Group # 2 — **Range Acc %** 0.0000
Group Name Turbidity — **Reading Acc %** 3.0000
Stated Accy Pct of Reading — **Plus/Minus** 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
0.00 / 0.00	NTU	0.00	NTU	0.00	0.00	0.00%	Pass
800.00 / 800.00	NTU	800.00	NTU	800.00	800.00	0.00%	Pass

Group # 3 — **Range Acc %** 0.0000
Group Name Conductivity — **Reading Acc %** 3.0000
Stated Accy Pct of Reading — **Plus/Minus** 0.000

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
0.718 / 0.718	ms/cm	0.718	ms/cm	0.718	0.718	0.00%	Pass
5.000 / 5.000	ms/cm	5.000	ms/cm	5.000	5.000	0.00%	Pass
80.000 / 80.000	ms/cm	80.000	ms/cm	80.000	80.000	0.00%	Pass

Group # 4 — **Range Acc %** 0.0000
Group Name Redox (ORP) — **Reading Acc %** 3.0000
Stated Accy Pct of Reading — **Plus/Minus** 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
240.00 / 240.00	mv	240.00	mv	240.00	240.00	0.00%	Pass

Group # 5 — **Range Acc %** 0.0000
Group Name Disolved Oxygen Zero — **Reading Acc %** 3.0000
Stated Accy Pct of Reading — **Plus/Minus** 0.00

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, Inc.
92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

#1863

Pine Environmental Services, Inc.

Instrument ID 21323
Description Horiba U-52
Calibrated 1/28/2013 2:54:50PM

Group # 5
Group Name Disolved Oxygen Zero
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
0.00 / 0.00	mg/L	0.00	mg/L	0.00	0.00	0.00%	Pass

Group # 6
Group Name Temperature DO Span
Stated Accy Plus / Minus
Range Acc % 0.0000
Reading Acc % 0.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
20.00 / 18.00	degrees C	9.18	mg/L	9.18	9.18	0.00%	Pass

Test Instruments Used During the Calibration (As Of Cal Entry Date)

Test Standard ID	Description	Manufacturer	Model Number	Serial Number / Lot Number	Last Cal Date/ Opened Date	Next Cal Date / Expiration Date
NJ AUTO CAL: C254820	Auto Cal Solution: 4.01 PH / 0.0 NTU / 4.49 mS/cm	GFS	AUTO CAL. 8483	C254820	1/22/2013	8/31/2013
NJ COND 5K: 2AD098	Conductivity 5000 uS/cm	AquaPhoenix Scientific	5000	2AD098	4/23/2012	4/30/2013
NJ COND 718: 2AG277	Conductivity 718 uS/cm	AquaPhoenix Scientific	718	2AG277	1/10/2013	7/31/2013
NJ COND 80K: 2AL015	Conductivity 80K uS/cm	AquaPhoenix Scientific	80, 000	2AL015	1/10/2013	12/31/2013
NJ DO ZERO: 2011030423	HORIBA SODIUM SULFITE	EMD	SX07853	2011030423	1/25/2013	4/25/2013
NJ ORP 240 MV: 4253	ORP solution 240mv	Hanna	240Mv	4253	8/31/2012	4/30/2017
NJ PH 7: 2AL203	BUFFER, PH7 YELLOW	AquaPhoenix Scientific	PH7	2AL203	1/21/2013	12/31/2014
NJ TURB 800 201046-4	Turbidity 800 NTU	Horiba		201046-4		

Sensor Information

Sensor Type	Manufacturer	Serial Number	Date Installed

#1863

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, Inc.

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 21323
Description Horiba U-52
Calibrated 1/28/2013 2:54:50PM

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Luis Vargas

All instruments are calibrated by Pine Environmental Services, Inc. according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services, Inc. of any defect within 24 hours of receipt of equipment
Please call 866-960-7463 for Technical Assistance

1-B-C

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

For Eurofins Lancaster Laboratories use only
Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

COC #322347

1 Client Information

Client: Environmental Alliance	Acct. #:
Project Name/#: Former BAE/1863	PWSID #:
Project Manager: JASON EARLY	P.O. #:
Sampler: Derek ZAY	Quote #:
Name of state where samples were collected: PA	

For Lab Use Only
FSC: 134440
SCR#:

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

2 Sample Identification / 3 Grab / Composite / 4 Matrix / 5 Analysis Requested / 6 Remarks

Preservation Codes: H, H

Sample Identification	Collected Date	Collected Time	Grab	Composite	Soil	Water (Potable / Ground / NPDES / Surface)	Other:	Total # of Containers	8260 Std. water master	Waters by SIMS 8260B									Remarks
RI-19S	02/05/13	0840	✓			✓		3	✓										
RI-19D	02/05/13	0915	✓			✓		3	✓										
W-10	02/05/13	10005	✓			✓		3	✓										
W-12	02/05/13	1030	✓			✓		3	✓										
W-14	02/05/13	1055	✓			✓		3	✓										
W-16	02/05/13	1215	✓			✓		6	✓	✓									
PW-14	02/05/13	1410	✓			✓		3	✓										
PW-12	02/06/13	0910	✓			✓		3	✓										
W-3	02/06/13	0950	✓			✓		3	✓										
PW-10B	02/06/13	1035	✓			✓		3	✓										

7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZ-EDD

E-mail address: JearlyAenvalliance.com

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
Bottle Storage	1-30-13	0930	Mark Denlinger	1-30-13	0930
MARK DENLINGER	1-30-13	1300	[signature]	02/05/13	
[signature]	02/12/13	0900	Mark Denlinger	2/12/13	1005

EDD Required? Yes No
If yes, format: _____

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

Environmental Analysis Request/Chain of Custody

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For Eurofins Lancaster Laboratories use only
Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

COC #322351

1 Client Information

Client: Environmental Alliance	Acct. #:
Project Name/#: Former BAF/1863	PWSID #:
Project Manager: JASON EARLY	P.O. #:
Sampler: Derek Zak	Quote #:
Name of state where samples were collected: PA	

For Lab Use Only
FSC: _____
SCR#: _____

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

2 Sample Identification / 3 / 4 Matrix / 5 Analysis Requested

Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	4 Soil	4 Sediment	4 Water: Potable	4 Water: Ground	4 Water: NPDES	4 Water: Surface	4 Other:	Total # of Containers	5 8260 Std. Water Master (H)	5 Waters by SIMS 8260B (H)								
PW-13	02/06/13	1120	X					X				3	X									
Recovery well	02/06/13	1335	X					X				3	X									
RW-1	02/06/13	1345	X					X				6	X	X								
W-8	02/06/13	1445	X					X				3	X									
PW-8B	02/06/13	1550	X					X				3	X									
PW-1	02/07/13	0905	X					X				3	X									
W-1	02/07/13	0925	X					X				6	X	X								
PW-8A	02/07/13	1005	X					X				6	X	X								
PW-11	02/07/13	1030	X					X				6	X	X								
PW-2	02/07/13	1120	X					X				3	X									

6 Remarks

7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZ-EOD

E-mail address: Jearly@envalliance.com

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[illegible]	02/12/13	0920	[illegible]	2-12-13	[illegible]

EDD Required? Yes No
If yes, format: _____

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

Environmental Analysis Request/Chain of Custody

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For Eurofins Lancaster Laboratories use only
Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

COC #322348

1 Client Information

Client: Environmental Alliance	Acct. #:
Project Name/#: Former BAE/1863	PWSID #:
Project Manager: JASON EARLY	P.O. #:
Sampler: Derek Zak	Quote #:
Name of state where samples were collected: PA	

4 Matrix: Soil ☐ Sediment ☐ Water: Potable ☐ Ground ☐ NPDES ☐ Surface ☐ Other: _____

5 Analysis Requested — Preservation Codes

For Lab Use Only
FSC: _____
SCR#: _____

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Other:	Total # of Containers	8260 Std. Water master (H)	Waters by SIMS 8260B (H)								
PW-2 DUP	02/07/13	1120	X			X		3	X									
DZ ~~[illegible]~~ FOX MW-5	02/07/13	1230	X			X		3	X									
DZ ~~[illegible]~~ PW-10A	02/07/13	1325	X					6	X	X								
DZ ~~[illegible]~~ RI-205	02/07/13	1415	X					6	X	X								
DZ ~~[illegible]~~ W-4	02/07/13	1525	X					3	X									
DZ ~~[illegible]~~ RI-31	02/07/13	1555	X					3	X									
FIELD BLANK	02/07/13	1630	X					6	X	X								
RINSATE BLANK	02/07/13	1645	X					3	X									
TRIP BLANK								6	X									

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZEDD

E-mail address: Jearly@envalliance.com

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	02/12/13	0900	[signature]	2/12/13	1005

EDD Required? Yes No
If yes, format: _____

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

Environmental Analysis Request/Chain of Custody

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For Eurofins Lancaster Laboratories use only
Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

COC #322349

1 Client Information

Client: Environmental Alliance	Acct. #:
Project Name/#: Former BAE/1863	PWSID #:
Project Manager: Jason Early	P.O. #:
Sampler: Derek Zak	Quote #:
Name of state where samples were collected: PA	

4 Matrix: Sediment ☐ Soil ☐ Water: Potable ☐ Ground ☐ NPDES ☐ Surface ☐ Other: ____

5 Analysis Requested

Preservation Codes: H, H

For Lab Use Only
FSC: _____
SCR#: _____

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Other:	Total # of Containers	8260B Waters by SIM's	8260 Std. Water masters								
PW-9A	02/11/13	1020	X			X		6	X	X								
PW-9B	02/11/13	1055	X			X		6	X	X								

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZ-EDD

E-mail address: Jearly@envalliance.com

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
[signature]	02/12/13	0900	[signature]	2/12/13	[illegible]

9

EDD Required? Yes No
If yes, format: _____

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

1-A

Environmental Analysis Request/Chain of Custody

For Lancaster Laboratories use only

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Acct. # _____ Group # _____ Sample # _____

COC # 310815

Please print. Instructions on reverse side correspond with circled numbers.

For Lab Use Only
FSC: _____
SCR#: _____

(1)
Client: Environmental Alliance Acct. #: _____
Project Name/#: Former BAE/NPDES 2484 PWSID #: _____
Project Manager: Tom Murphy P.O.#: _____
Sampler: Derek Zak Quote #: _____
Name of state where samples were collected: PA

(5) Analyses Requested — Preservation Codes

Preservation Codes: H=HCl, T=Thiosulfate, N=HNO_3, B=NaOH, S=H_2SO_4, O=Other

(2) Sample Identification	Date Collected	Time Collected	(3) Grab	Composite	Matrix: Soil ☐ Sediment ☐	Matrix: Water ☐ Potable NPDES ☐ Ground ☐ Surface ☐	Other: ____	(4) Total # of Containers	TCE, PCE via 624 H								Remarks	(6) Temperature of samples upon receipt (if requested)
EFFLUENT	02/06/13	1210	X			X		3	X								pH: 8.24	

(7) **Turnaround Time Requested** (TAT) (please circle): Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed: EZ-EOD
Rush results requested by (please circle): Phone E-mail
Phone #: _____
E-mail address: Tmurphy@envalliance.com

(8) **Data Package Options** (please circle if required)
Type I (Validation/non-CLP) MA MCP CT RCP
Type III (Reduced non-CLP)
Type IV (CLP SOW)
Type VI (Raw Data Only)
TX TRRP-13

EDD Required? Yes No

Site-specific QC (MS/MSD/Dup)? Yes No
(if yes, indicate QC sample and submit triplicate sample volume)

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	02/12/13	0920	[signature]	2-12-13	0905

Environmental Analysis Request/Chain of Custody

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For Eurofins Lancaster Laboratories use only
Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

COC #322879

1 Client Information

Client: Environmental Alliance	Acct. #:
Project Name/#: Former BAE/2484	PWSID #:
Project Manager: Tom Murphy	P.O. #:
Sampler: Derek Zak	Quote #:
Name of state where samples were collected: PA	

4 Matrix: Soil ☐ Sediment ☐ Water: Potable ☐ Ground ☐ NPDES ☐ Surface ☐ Other: ____

5 Analysis Requested

Preservation Codes: H

For Lab Use Only
FSC: _____
SCR#: 1347168

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Other:	Total # of Containers	TCE, PCE via 624									
RW-1	02/06/13	1345	X			X		3	X									
W-1	02/07/13	0925	X			X		3	X									
A-12	02/11/13	1140	X			X		3	X									
A-13	02/11/13	1210	X			X		3	X									
A-14	02/11/13	1245	X			X		3	X									
A-3	02/11/13	1335	X			X		3	X									

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: Tmurphy@envalliance.com
EZ-EDD

E-mail address: _____

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	2/6/13	0700	[signature]	2/6/13	0700
[signature]	2/6/13	1053	[signature]	02/06/13	1053
[signature]	02/12/13	0900	[signature]	2/12/13	1005

EDD Required? Yes No
If yes, format: _____

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

Depth to Water Sampling List
Former BAE Facility
Lansdale, Pennsylvania

Sampling Crew: DZ/HY Date: 5/6/13 Weather: OVERCAST 50°F

Sampling Location	Location	Depth to Water	~~Down Hole Temerature~~	~~Down Hole Dissolved Oxygen~~
		feet	DO mg/L	Temp °C
W-1	OU-1	8.43	1.22	12.3
W-16	OU-1	12.26	1.38	12.5
W-10	OU-1	9.64	2.00	9.8
W-12	OU-1	7.49	3.65	9.2
W-14	OU-1	11.84	5.90	9.4
Recovery Well	OU-1	14.41	5.79	13.80
RW-1	OU-1	14.31	6.27	11.8
RW-2	OU-1	10.13	0.15	12.01
RW-3	OU-1	7.04	0.11	12.00
RI-20S	OU-1	12.48	4.69	12.4
RI-20D	OU-1	9.07	0.22	12.24
PW-1	OU-1	10.95	4.30	15.50
PW-2	OU-1	14.08	4.65	13.7
PW-3	OU-1	11.68	4.05	11.4
PW-4	OU-1	8.25	1.27	16.4
PW-5	OU-1	8.03	2.91	16.0
PW-6A	OU-1	14.80	0.34	15.8
PW-6B	OU-1	14.02	0.32	15.02
PW-7A	OU-1	10.[illegible]78	0.49	12.08
PW-7B	OU-1	10.[illegible]82	0.22	11.93
PW-8A	OU-1	13.50	0.23	11.5
PW-8B	OU-1	11.99	0.45	11.96
PW-9A	OU-1	17.08	NA	NA
PW-9B	OU-1	17.12	NA	NA
PW-10A	OU-1	16.90	3.57	12.3
PW-10B	OU-1	13.25	0.31	12.35
PW-11	OU-1	13.39	0.28	11.34
PW-12	OU-1	12.57	0.28	11.72
PW-13	OU-1	14.33	0.75	11.88
PW-14	OU-1	15.37	6.47	12.02
A-2	OU-1	~~[illegible]~~		
A-3	OU-1	5.05	4.73	16.4
A-4	OU-1	9.33	0.84	11.1
A-5	OU-1	10.52	3.23	11.7
A-6	OU-1	10.24	4.26	10.5
A-7	OU-1	[illegible].776	1.89	10.7
A-8	OU-1	8.99	4.09	12.9
A-9	OU-1	10.85	0.38	12.5
A-11	OU-1	13.31	2.81	11.0
A-12	OU-1	14.50	7.41	11.6
A-13	OU-1	13.19	0.41	12.1
A-14	OU-1	11.63	0.61	11.5
A-16	ABANDONED			
A-17	OU-1	DRY		
A-18	OU-1	DRY		
Fox MW-1	Off-Site	5.24	0.19	9.90
Fox MW-2	Off-Site	10.80	0.51	11.70
Fox MW-5	Off-Site	11.48	1.43	10.3
W-8	Off-Site	3.50	3.10	10.4
W-13	Off-Site	5.75	1.20	10.7
W-17	Off-Site	10.09	0.33	11.0
W-4	OU-2	6.00	3.13	10.90
W-3	OU-2	6.37	0.23	10.60
RI-19S	OU-2	4.31	0.53	12.36
RI-19D	OU-2	4.34	0.41	12.32
RI-31	OU-2	6.53	NA	NA
RW-4D	OU-2	8.72	0.20	11.98
RW-4S	OU-2	5.63	0.37	12.24
RW-4I	OU-2	6.04	0.20	11.91
RW-5D	OU-2	9.80	0.26	12.06
RW-5I	OU-2	9.95	0.29	12.06
RW-5S	OU-2	9.67	1.21	11.9

GROUNDWATER SAMPLING FI ATA SHEET

DATE: 05/07/13 SITE/PROJECT: FORMER BAF/1863 SAMPLING TEAM: DZ/HV P Cloudy 53°F

05/06/13 DR890 DIGITAL MANUAL

WELL INFORMATION		PURGE	PARAMETERS											SAMPLING			
SAMPLE LOCATION	WELL DIAM.	RATE GPM	TIME	TEMP (C)	COND mS/cm	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)	DOWNHOLE DO (mg/L)	FERROUS IRON (mg/L)	PURGE VOLUME	TIME	GAL TANK	COMMENTS START	Groundfos
RI-195	2" 56'	~1.8	0854	13.63	0.325	5.48	6.67	-50	59.1	0.53	MANUAL 6.0	40	0920	35 DZ ON HILL	3 VOAs New 100FT Tubing	100'
			0903	13.83	0.325	1.20	6.52	-75	3.2							
			0911	13.86	0.323	0.98	6.55	-80	2.3							
			0919	13.88	0.322	0.85	6.56	-83	0.4							
RI-190	2" 78'	~1.7	0935	13.72	0.329	1.44	6.80	-84	3.6	0.41	MANUAL 4.6	50	1007	35 ON HILL	3 VOAs DECON 100FT Tubing	100'
			0945	13.84	0.328	0.81	6.86	-102	0.0							
			0955	13.88	0.334	0.74	6.77	-100	0.0							
			1006	13.87	0.329	0.82	6.89	-104	0.0							
W-10	3.5" 32'	~1.4	1035	12.06	0.353	4.72	5.83	43	28.3	2.60	MANUAL 0.5	20	1050	98 ON HILL	3 VOAs DEDICATED	100'
			1039	11.91	0.362	2.60	5.45	141	31.2							
			1043	12.00	0.358	2.44	5.44	158	59.8							
			1049	12.04	0.361	2.40	5.48	165	63.1							
W-12	3.5" 45'	~1.4	1056	10.94	0.235	4.11	4.87	254	212	3.65	MANUAL 2.5	25	1115	124 ON HILL	3 VOAs DEDICATED	200'
			1103	11.21	0.243	4.60	5.05	252	111							
			1107	12.15	0.255	4.13	5.39	241	94.1							
			1114	12.16	0.270	3.99	5.41	235	91.6							
W-14	3.5" 45'	~1.5	1125	11.49	0.150	4.23	5.42	255	48.1	5.90	MANUAL 1.0	22	1140	170 ON HILL	3 VOAs DEDICATED	100'
			1129	12.03	0.166	5.45	6.08	239	82.1							
			1133	12.07	0.270	5.51	6.10	244	34.1							
			1139	12.05	0.271	5.63	6.12	248	32.6							
W-16	3.5" 45'	~1.8	1153	14.65	0.495	5.60	6.64	221	31.6	1.38	MANUAL 0.10	40	1220	182 ON HILL	6 VOAs DEDICATED	100'
			1201	14.59	0.505	2.91	7.02	176	137							
			1210	15.06	0.501	2.27	6.98	161	87.7							
			1219	14.96	0.500	2.01	7.00	155	90.3							
PW-14	6" 77'	~1.9	1311	13.93	0.118	8.41	5.41	271	23.0	6.47	DIGITAL 1101 2.78	80	1350 DZ	35	3 VOAs DECON 100FT Tubing	200'
			1328	14.02	0.149	6.93	5.42	302	31.3							
			1340	13.98	0.175	7.76	5.66	302	18.0							
			1349	13.96	0.179	7.50	5.70	301	14.3							

COMMENTS: 0920-0930 Phone convo W/ PINE About DR890 Colormetric. MALFunctioning Unit
We will record Ferrous IRON By Color Wheel and the AVG. of Both DZ/HV opinion Off FI (mg/L)
1230-1300 - Purge GW Into ONSITE AST
1300: DR890 Device onsite USED FOR Rest of Wells Starting W/ PW-14

GROUNDWATER SAMPLING FI ATA SHEET

DATE: 05/07/13/05/08/13 SITE/PROJECT: Former BAE/1863 SAMPLING TEAM: DZ/HY P cloudy 62°F

DIGITAL DR890 RAIN ~0.5" 05/08/13

05/06/13 ~~[illegible]~~ DZ

WELL INFORMATION		PURGE	PARAMETERS										SAMPLING			
SAMPLE LOCATION	WELL DIAM.	RATE GPM	TIME	TEMP (C)	COND mS/cm (~~uS/cm~~)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)	DOWNHOLE DO (mg/L)	FERROUS IRON (mg/L)	PURGE VOLUME	TIME	TANK START GPM	COMMENTS	Groundwater
PW-12	6" 77'	~2.6	1415	13.74	0.993	3.74	7.27	178	15.4	0.28	DIGITAL 1.75	80	1450	125 ON HILL	3 VOAS Decon 100FT Tubing	200'
			1430	13.44	0.976	1.77	7.29	61	0.4							
			1441	13.35	0.969	1.70	7.29	41	0.0							
			1449	13.38	0.970	1.65	7.29	26	0.0							
W-3	3.5" 22'	1033 ~2.0	~~[illegible]~~	12.18	0.429	5.10	6.50	140	119	0.23	DIGITAL 2to1 2.58	22	1045	0	3 VOAS DEDICATED Tubing	100'
			1037	12.58	0.422	5.00	6.33	59	29.3							
			1041	12.62	0.419	3.21	6.35	42	26.1							
			1044	12.64	0.419	3.21	6.32	36	24.3							
PW-10B	2" 82'	~2.0	1108	14.52	0.654	1.58	7.38	-11	33.8	0.31	0.34	40	1130	32 ON HILL	3 VOAS DEDICATED Tubing	100'
			1114	15.17	0.653	0.81	7.58	-1	6.1							
			1120	14.87	0.652	0.77	7.58	7	4.8							
			1128	14.85	0.652	0.72	7.59	5	3.1							
PW-13	6" 77'	~1.6	1152	14.09	0.800	3.60	7.71	113	23.7	0.75	2.75	80	1240	70 ON HILL	3 VOAS Decon 100FT Tubing	200'
			1214	14.18	0.833	1.44	7.64	108	50.2							
			1228	14.34	0.835	1.28	7.64	112	72.1							
			1239	14.38	0.833	1.15	7.64	111	74.3							
Recovery Well	6" 92'	~2.0	1325	16.83	3.81	8.36	5.95	217	62.6	5.79	0.23	100	1415	155	3 VOAS Dedicated Tubing	200'
			1348	16.80	3.22	5.70	6.15	239	28.8							
			1400	16.91	3.10	5.30	6.25	230	24.6							
			1414	16.95	2.99	5.17	6.26	227	18.1							
RW-1	6" 68'	~1.4	1334	14.67	2.53	5.20	6.99	206	57.7	6.27	1to1 2.66	70	1425	176	6 VOAS 100FT Decon tubing	100'
			1344	14.82	2.51	4.21	7.00	211	75.6							
			1409	15.58	2.41	4.00	7.05	204	53.1							
			1424	15.61	2.41	4.07	7.04	201	26.7							
~~W-8~~	3.5" 28'									3.10	DZ	30				

COMMENTS:

GROUNDWATER SAMPLING FI ATA SHEET

RAIN overnight

DATE: 05/09/13 SITE/PROJECT: Former BAE/1863 SAMPLING TEAM: DZ/CES P Cloudy 62°F

WELL INFORMATION		PURGE	PARAMETERS							05/06/13 DIGITAL DR890			SAMPLING BF FOR START GPM		
SAMPLE LOCATION	WELL DIAM.	RATE	TIME	TEMP (C)	COND mS/cm	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)	DOWNHOLE DO (mg/L)	FERROUS IRON (mg/L)	PURGE VOLUME	TIME	TANK	COMMENTS	Grundfus
W-8	3.5" 28'	~2.0	0900	13.25	2.84	7.51	5.21	249	49.8	[illegible] 3.10	0.4	30	0915	10	3 VOAS DEDICATED Tubing	200'
			0904	12.74	1.64	5.94	5.33	234	20.2							
			0909	12.36	0.811	4.80	5.30	222	14.1							
			0914	12.35	0.810	4.59	5.31	216	7.9							
PW-8B	2" 98'	~1.3	0940	13.50	0.735	6.10	6.53	115	82.1	0.45	1.04	40	1010	25 ON HILL	3 VOAS DEDICATED Tubing	100'
			0945	13.72	0.742	2.56	7.02	18	56.3							
			0954	14.15	0.836	1.31	7.16	-20	8.7							
			1008	14.15	0.858	0.86	7.17	-26	0.5							
PW-1	6" 58'	~2.0	1026	16.89	3.80	8.81	4.91	267	35.8	4.30	2 to 1 2.07	70	1105	70 FLAT	3 VOAS DEDICATED Tubing	200'
			1040	17.32	3.96	5.58	5.00	259	28.0							
			1052	17.36	3.21	4.97	5.06	269	20.7							
			1104	17.39	3.26	5.11	5.07	291	6.9							
W-1	3.5" 38'	~0.5-1.0 1059	1031	16.58	2.52	4.23	6.30	206	257	1.22	2.14	40	1115	80	6 VOAS DEDICATED Tubing	100'
			1038	16.68	1.48	4.88	6.31	190	234							
			1059	17.00	1.62	4.85	6.16	220	207							
			1114	17.02	1.65	4.81	6.18	226	196							
PW-8A	2" 44'	~1.5	1151	13.29	0.676	7.48	7.30	288	134	0.43	0.20	30	1210	27	6 VOAS DEDICATED Tubing	100'
			1158	13.31	0.639	7.14	7.14	277	15.9							
			1204	13.16	0.633	3.10	7.28	220	11.1							
			1209	13.19	0.630	2.89	7.26	211	9.6							
PW-11	6" 77'	~2.5	1159	13.01	0.836	2.02	7.41	216	82.7	0.28	0.95	80	1235	55	6 VOAS DECON 100FT Tubing	200'
			1211	13.18	0.829	1.30	7.44	183	25.3							
			1224	13.14	0.788	1.59	7.50	142	27.9							
			1234	13.13	0.783	1.22	7.51	140	25.5							
PW-2	6" 57'	~2.4	1259	14.80	2.69	4.10	5.79	235	63.5	4.65	0.25	60	1325	150 ON HILL	6 VOAS DUP SAMPLE DEDICATED Tubing	200'
			1308	15.10	2.71	4.18	5.82	248	61.2							
			1316	15.15	2.71	4.24	5.81	253	55.1							
			1324	15.16	2.70	4.25	5.80	254	52.9							

COMMENTS: 0830-0900 TROUBLESHOT 200FT Grundfus pump (Fixed pump)

GROUNDWATER SAMPLING FI ATA SHEET

DATE: 05/09/13/05/10/13 SITE/PROJECT: Former BAE/1863 SAMPLING TEAM: DZ/CES Light RAIN 68°F/ P Cloudy 67°F

WELL INFORMATION		PURGE	PARAMETERS							05/06/13			SAMPLING BEFORE START GPM			
SAMPLE LOCATION	WELL DIAM.	RATE GPM	TIME	TEMP (C)	COND mS/cm (ms/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)	DOWNHOLE DO (mg/L)	FERROUS IRON (mg/L)	PURGE VOLUME	TIME	TANK	COMMENTS	Groundfos
Fox MW-5	6" 43'	~0.5	1349	13.15	0.661	6.43	7.49	163	61.9	1.43	3 To 1 2.98	72	1415	32	3 VOAS DEDICATED Tubing	100'
			1357	13.12	0.670	3.48	7.50	127	233							
			1407	13.07	0.675	2.84	7.54	134	117							
			1414	13.11	0.673	2.56	7.56	139	94.2							
PW-10A	2" 48'	~6.5	0826	14.28	1.12	6.90	7.07	262	121	3.89	0.50	35	0850	12 ON HILL	6 VOAS DEDICATED Tubing	100'
			0832	14.57	1.16	3.76	6.86	246	16.9							
			0840	14.55	1.17	2.32	6.94	198	0.8							
			0849	14.53	1.18	2.12	6.93	190	0.0							
RI-205	2" 77'	~1.5	0903	14.55	0.852	3.13	7.49	171	22.7	4.69	0.16	50	0940	30 ON HILL	6 VOAS DEDICATED Tubing	100'
			0911	14.79	0.907	2.45	7.57	164	1.3							
			0923	14.88	0.919	2.12	7.58	163	0.0							
			0939	14.89	0.932	2.60	7.60	164	0.0							
W-4	3.5" 28'	~1.8	0954	13.64	0.120	3.41	5.56	242	40.8	3.13	0.49	35	1015	40 ON HILL	3 VOAS DEDICATED Tubing	100'
			1003	13.15	0.118	3.44	5.04	295	5.9							
			1009	12.95	0.120	3.43	4.96	310	3.4							
			1014	12.93	0.121	3.40	4.95	316	1.6							
RI-31	1" 8'	DTW: 6.78 8.22 DTB	1100	17.94	0.167	7.40	5.56	62	21.1	NA	1 To 1 2.35	0.25	1115	NA	3 VOAS New tubing	Per. Pump
			1105	16.85	0.171	8.11	5.25	101	8.0							
			1110	16.71	0.169	8.79	5.23	131	2.8							
			1114	16.69	0.165	8.99	5.20	155	0.0							
PW-9A	1"	4 min per GAL	1140	17.46	1.34	4.16	6.92	164	8.0	NA	0.19	3	1200	NA	6 VOAS DEDICATED Tubing	PER. Pump
			1145	17.46	1.67	3.02	6.79	167	23.0							
			1148	17.61	1.45	2.60	6.86	165	17.5							
			1153	17.62	1.36	2.28	6.95	160	21.0							
PW-9B	1"	4.5 min per GAL	1201	17.74	0.671	8.95	7.49	85	11.8	NA	0.07	5	1225	NA	6 VOAS Dedicated tubing	PER. Pump
			1207	17.25	0.580	3.95	7.70	61	10.3							
			1216	17.14	0.592	2.72	7.70	73	13.5							
			1223	17.17	0.591	2.22	7.69	77	9.9							

COMMENTS: FIELD BLANK 6 VOAS 1025 RINSATE BLANK 3 VOAS 1035

RI-31 Went Dry 4 Times recharged

GROUNDWATER SAMPLING LD DATA SHEET

DATE: 05/10/13 SITE/PROJECT: _____ SAMPLING TEAM: DZ/CES Pcloudy 70°F

WELL INFORMATION		PURGE	PARAMETERS							SAMPLING				
SAMPLE LOCATION	WELL DIAM.	RATE	TIME	TEMP (C)	COND (us/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)	DOWNHOLE DO (mg/L)	FERROUS IRON (mg/L)	PURGE VOLUME	TIME	COMMENTS
RI-30	1"	DTB: 9.00	1025	15.25	0.109	11.26	5.81	180	91.8	NA	1.87	0.18	1045	3 VOAs
			1043	15.39	0.119	10.51	5.88	186	73.8					
	8.6'	DTW: 5.20	[redacted]											Went DRY To 8.6'
EFFLUENT NPDES	NA	15 To 18 GPM	1358	20.49	0.970	10.20	8.59	151	29.1	NA	NA	NA	1305	3 VOAS
			1356	19.91	0.904	10.00	8.56	154	26.3					
			1359	19.94	0.901	9.72	8.53	161	28.9					TCE via 624
			1403	19.99	0.891	9.53	8.49	164	31.9					
#2484														JOB # 2484

COMMENTS: RI-30 ADDED To scope of WORK ON 05/10/13. Very slow recharge.

Former BAF/1863

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, LLC.
92 North Main St, Bldg 20
Windsor, NJ 08561
Toll-free: (800) [illegible]-9663

05/06/13 Down Hole Do meter

Pine Environmental Services, Inc.

Instrument ID 5985
Description YSI 600 XL
Calibrated 5/2/2013 4:12:10PM

Manufacturer YSI
Model Number 600 XL
Serial Number/ Lot Number 0081307AC
Location New Jersey
Department

State Certified
Status Pass
Temp °C 24.9
Humidity % 28

Calibration Specifications

Group # 1
Group Name PH
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
7.00 / 7.00	PH	7.00	PH	7.00	7.00	0.00%	Pass
4.00 / 4.00	PH	4.00	PH	4.00	4.00	0.00%	Pass
10.00 / 10.00	PH	10.00	PH	10.00	10.00	0.00%	Pass

Group # 2
Group Name Conductivity
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.000

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
1.413 / 1.413	ms/cm	1.413	ms/cm	1.413	1.413	0.00%	Pass

Group # 3
Group Name Redox (ORP)
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
240.00 / 240.00	mv	240.00	mv	240.00	240.00	0.00%	Pass

Group # 4
Group Name Disolved Oxygen Span
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
100.00 / 100.00	%	100.00	%	100.00	100.00	0.00%	Pass

Group # 5
Group Name Disolved Oxygen Zero
Test Performed: N/A **As Found Result:** **As Left Result:**

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC.
92 North Main St, Building 20
Windsor, 08561
Toll-free: (800 9663

Pine Environmental Services, Inc.

Instrument ID 5985
Description YSI 600 XL
Calibrated 5/2/2013 4:12:10PM

Test Instruments Used During the Calibration (As Of Cal Entry Date)

Test Standard ID	Description	Manufacturer	Model Number	Serial Number / Lot Number	Last Cal Date/ Opened Date	Next Date / Expir Date
NJ COND 1413: 3AA537	1413 conductivity standard	AquaPhoenix Scientific	1413	3AA537	3/7/2013	1/31
NJ ORP 240 MV: 4253	ORP solution 240mv	Hanna	240Mv	4253	8/31/2012	4/30
NJ PH 10: 3AA433	BUFFER, PH 10 BLUE	AquaPhoenix Scientific	PH 10	3AA433	4/24/2013	1/31
NJ PH4: 3AB001	BUFFER, PH4 RED	AquaPhoenix Scientific	PH4	3AB001	4/29/2013	1/31
NJ PH7: 3AD740	BUFFER, PH7 YELLOW	AquaPhoenix Scientific	PH7	3AD740	5/1/2013	4/30

Sensor Information

Sensor Type	Manufacturer	Serial Number	Date Installed

Maintenance Log

Date	Entered By	Details
6/6/2012	Matthew Kelsey	Missing pH probe.

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated William Bass

All instruments are calibrated by Pine Environmental Services, LLC according to the manufacturer specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services, LLC. of any defect within 24 hours of receipt of equipment
Please call 866-960-7463 for Technical Assistance

Field Calilbration Log

Project	1863 BAF	Task #	
Analyst Name	Charles E. Schwartz III	Date	5/4/13
Model	U-52		
Equipment Serial #	Y2H356AX		15

Calibration	Range	Lot #	Reading
pH - 4	+/- 0.05		Time 1400
pH - 10	+/- 0.05		
pH - 7	+/- 0.1		
DO (mg/l)	standard		~~8.92 mg/L~~
	0.3 of standard		
	standard		
	0.3 of standard		
Conductivity	standard		0.000 mS/cm
	1% of standard		0.000 cal'd
	standard		1.413 ms/cm
	1% of standard		1.47 cal'd
	standard		
	1% of standard		
Turbidity	standard		0 NTU
	10% of standard		0 NTU cal'd
	standard		10 NTU
	10% of standard		0 NTU cal'd
	standard		100 NTU
	10% of standard		40.5 NTU cal'd
Temperature	standard		
	10% of standard		
ORP	standard		240 mV
	meter value		251 mV cal'd
Comments			

Field Calilbration Log

2 of 5

Project	1465 BFE	Task #	
Analyst Name	[illegible]	Date	5/6/13
Model	Horiba U52		
Equipment Serial #	Y2H356AX		

Calibration	Range	Lot #	Reading		
pH - 4	+/- 0.05		4.33	Time	1740
pH - 10	+/- 0.05		10.06		
pH - 7	+/- 0.1		7.00		
DO (mg/l)	standard				
	0.3 of standard				
	standard				
	0.3 of standard				
Conductivity	standard				
	1% of standard				
	standard				
	1% of standard				
	standard				
	1% of standard				
Turbidity	standard		0.0		
	10% of standard		0.0 Cal.		
	standard		10.0		
	10% of standard		6.6		
	standard		100.0		
	10% of standard		100.0		
Temperature	standard				
	10% of standard				
ORP	standard				
	meter value				
Comments					

Field Calilbration Log

Project	1863	Task #	
Analyst Name	Charles E. Schwartz III	Date	5/7/13
Model	U-52		
Equipment Serial #	Y2H356AX		

Calibration	Range	Lot #	Reading		
pH - 4	+/- 0.05	3.92		Time	1700
pH - 10	+/- 0.05	10.01			
pH - 7	+/- 0.1	7.01			
DO (mg/l)	standard				
	0.3 of standard				
	standard				
	0.3 of standard				
Conductivity	standard				
	1% of standard				
	standard				
	1% of standard				
	standard				
	1% of standard				
Turbidity	standard				
	10% of standard				
	standard				
	10% of standard				
	standard				
	10% of standard				
Temperature	standard				
	10% of standard				
ORP	standard				
	meter value				
Comments					

Field Calilbration Log

Project	1863	Task #	001
Analyst Name	Charles E. Schwartz III	Date	5/8/13
Model	U-52		
Equipment Serial #	Y2H356AX		

Calibration	Range	Lot #	Reading		
pH - 4	+/- 0.05		4.05	Time	1730
pH - 10	+/- 0.05		10.04		
pH - 7	+/- 0.1		7.00		
DO (mg/l)	standard				
	0.3 of standard				
	standard				
	0.3 of standard				
Conductivity	standard				
	1% of standard				
	standard				
	1% of standard				
	standard				
	1% of standard				
Turbidity	standard				
	10% of standard				
	standard				
	10% of standard				
	standard				
	10% of standard				
Temperature	standard				
	10% of standard				
ORP	standard				
	meter value				
Comments					

Field Calilbration Log

Project	1863	Task #	001
Analyst Name	Charles E. Schwartz III	Date	5/9/13
Model	U-52		
Equipment Serial #	Y2H356AX		

Calibration	Range	Lot #	Reading		
pH - 4	+/- 0.05		3.92	Time	1930
pH - 10	+/- 0.05		10.03		
pH - 7	+/- 0.1		7.00		
DO (mg/l)	standard				
	0.3 of standard				
	standard				
	0.3 of standard				
Conductivity	standard				
	1% of standard				
	standard				
	1% of standard				
	standard				
	1% of standard				
Turbidity	standard				
	10% of standard				
	standard				
	10% of standard				
	standard				
	10% of standard				
Temperature	standard				
	10% of standard				
ORP	standard				
	meter value				
Comments					

Field Calilbration Log

Project	Admin / AFTER BAE 1863 use	Task #	001 DE
Analyst Name	Charles E. Schwartz III	Date	5/11/13
Model	U-52		
Equipment Serial #	Y2 H356AX		

Calibration	Range	Lot #	Reading		
pH - 4	+/- 0.05		4.16	Time	1500
pH - 10	+/- 0.05		9.88		
pH - 7	+/- 0.1		7.00		
DO (mg/l)	standard		0.0		
	0.3 of standard		0.30		
	standard		~~8.19~~ 8.20		
	0.3 of standard		4.97		
Conductivity	standard		0.000		
	1% of standard		0.000		
	standard		5.000		
	1% of standard		4.910		
	standard				
	1% of standard				
Turbidity	standard		0.0		
	10% of standard		0.0		
	standard		10.0		
	10% of standard		7.1		
	standard		100.0		
	10% of standard		97.2		
Temperature	standard		31.70		
	10% of standard		32.83		
ORP	standard		240		
	meter value		225		

Comments

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

For Eurofins Lancaster Laboratories use only
Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

COC # 329194

1 Client Information

Client: Environmental Alliance
Acct. #:
Project Name/#: Former BAT/1863
PWSID #:
Project Manager: Jason Early
P.O. #:
Sampler: Derek Zay
Quote #:
Name of state where samples were collected: PA

For Lab Use Only
FSC:
SCR#:

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	4 Matrix: Soil	Sediment	Water: Ground	Potable	Surface	NPDES	Other	Total # of Containers	5 Analysis Requested (Preservation Codes): 8260 Std. water/ma sler	Water by SIMS 8260B
RI-19S	05/07/13	0920	✓				✓					3	X	
RI-19D	05/07/13	1007	✓				✓					3	X	
W-10	05/07/13	1050	✓				✓					3	X	
W-12	05/07/13	1115	✓				✓					3	X	
W-14	05/07/13	1140	✓				✓					3	X	
W-16	05/07/13	1220	✓				✓					6	X	X
PW-14	05/07/13	1350	✓				✓					3	X	
PW-12	05/07/13	1450	✓				✓					3	X	
W-3	05/08/13	1045	✓				✓					3	X	
PW-10B	05/08/13	1130	✓				✓					3	X	

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: _____

E-mail address: Jason@envalliance.com

8 Data Package Options (circle if required)
Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
[signature]	05/13/13	0915	[signature]	5/13/13	1100

9

EDD Required? Yes No
If yes, format: EZ-EDD

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

For Eurofins Lancaster Laboratories use only
Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

COC # 329195

1 Client Information

Client: Environmental Alliance	Acct. #:
Project Name/#: Former BAE/1863	PWSID #:
Project Manager: JASON EARLY	P.O. #:
Sampler: Derek ZAY	Quote #:

Name of state where samples were collected: PA

4 Matrix: Soil ☐ Sediment ☐ Water: Potable ☐ Ground ☐ NPDES ☐ Surface ☐ Other: ____

5 Analysis Requested — Preservation Codes

For Lab Use Only
FSC: _____
SCR#: _____

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Other	Total # of Containers	8260 Std. Water matrices (H)	Waters by SIMS 8260B (H)									6 Remarks
PW-13	05/08/13	1240	✓			✓		3	X										
Recovery Well	05/08/13	1415	✓			✓		3	X										
RW-1	05/08/13	1425	✓			✓		6	X	X									
W-8	05/09/13	0915	✓			✓		3	X										
PW-8B	05/09/13	1010	✓			✓		3	X										
PW-1	05/09/13	1105	✓			✓		3	X										
W-1	05/09/13	1115	✓			✓		6	X	X									
PW-8A	05/09/13	1210	✓			✓		6	X	X									
PW-11	05/09/13	1235	✓			✓		6	X	X									
PW-2	05/09/13	1325	✓			✓		3	X										

7 Turnaround Time (TAT) Requested (please circle)
(Standard) Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: _____

E-mail address: _____

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
[signature]	05/13/13	0915	[signature]	5/13/13	1100

9

EDD Required? (Yes) No
If yes, format: EZ-EDD

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

Environmental Analysis Request/Chain of Custody

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For Eurofins Lancaster Laboratories use only
Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

COC # 329193

1 Client Information

Client: Environmental Alliance
Acct. #:
Project Name/#: Former BAE/1863
PWSID #:
Project Manager: JASON FARLY
P.O. #:
Sampler: Derek Zak
Quote #:
Name of state where samples were collected: PA

For Lab Use Only
FSC:
SCR#: 138787

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

2 Sample Identification / 3 / 4 Matrix / 5 Analysis Requested

Preservation Codes: 8260 Std. Water master; Hg by SW 8260B

Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	4 Soil	4 Sediment	4 Water: Ground	4 Water: Surface	4 Water: Potable	4 Water: NPDES	4 Other:	Total # of Containers	8260 Std. Water master	Hg by SW 8260B
PW-2 DUP	05/09/13	1325	✓				✓					3	X	
FOX MW-5	05/09/13	1415	✓				✓					3	X	
PW-10A	05/10/13	0850	✓				✓					6	X	X
RI-20S	05/10/13	0940	✓				✓					6	X	X
W-4	05/10/13	1015	✓				✓						X	
RI-30	05/10/13	1045	✓				✓						X	
RI-31	05/10/13	1115	✓				✓						X	
PW-9A	05/10/13	1200	✓				✓					6	X	X
PW-9B	05/10/13	1225	✓				✓					6	X	X
FIELD BLANK	05/10/13	1025					✓					6	X	X

6 Remarks

7 Turnaround Time (TAT) Requested (please circle)

Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: _____

E-mail address: _____

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
Post U Storage	5-2-13	[illegible]	[illegible]	05/07/13	0600
[illegible]	05/13/13	0915	[illegible]	5/13/13	1100

EDD Required? Yes No
If yes, format: FZ-F00

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

For Eurofins Lancaster Laboratories use only
Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

COC # 329196

1 Client Information

Client: Environmental Alliance	Acct. #:
Project Name/#: Former BAE/1863	PWSID #:
Project Manager: JASON EARLY	P.O. #:
Sampler: Derek ZAY	Quote #:
Name of state where samples were collected: PA	

For Lab Use Only
FSC: _____
SCR#: _____

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

2 Sample Identification | **3 Grab** | **Composite** | **4 Matrix** (Soil ☐ Sediment ☐ Water: Potable ☐ Ground ☐ NPDES ☐ Surface ☐ Other: ____) | **Total # of Containers** | **5 Analysis Requested** (Preservation Codes: 8260 Std water/masters, H)

Sample Identification	Collected Date	Collected Time	Grab	Composite	Soil	Water	Other	Total # of Containers	8260 Std water/masters
RINSATE BLANK	05/10/13	1035				✓		3	X

6 Remarks

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: _____

E-mail address: _____

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	05/13/13	0915	Mark Denlinger	5/13/13	1100

EDD Required? Yes No
If yes, format: EZ-EDD

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

Depth to Water Sampling List
Former BAE Facility
Lansdale, Pennsylvania

Sampling Crew: DZ/CES Date: 08/05/13 Weather: Sunny 80°F

Sampling Location	Location	Depth to Water	Down Hole Temerature	Down Hole Dissolved Oxygen
		feet	Do mg/L	Temp °C
W-1	OU-1	7.97	1.61	15.5
W-16	OU-1	12.56	1.17	12.9
W-10	OU-1	10.80	1.32	11.5
W-12	OU-1	8.63	2.38	11.1
W-14	OU-1	12.13	1.37	11.3
Recovery Well	OU-1	14.33	5.58	13.90
RW-1	OU-1	14.48	2.92	12.70
RW-2	OU-1	10.31	0.20	12.06
RW-3	OU-1	3.65	0.24	11.99
RI-20S	OU-1	12.58	0.53	12.38
RI-20D	OU-1	9.12	0.31	12.51
PW-1	OU-1	8.58	3.15	16.0
PW-2	OU-1	15.22	2.63	13.7
PW-3	OU-1	11.84	4.76	12.27
PW-4	OU-1	8.15	0.17	16.4
PW-5	OU-1	7.94	6.01	16.4
PW-6A	OU-1	15.05	0.61	16.0
PW-6B	OU-1	14.02	0.37	14.92
PW-7A	OU-1	10.87	0.63	12.12
PW-7B	OU-1	10.94	0.22	11.97
PW-8A	OU-1	13.71	0.13	12.4
PW-8B	OU-1	12.14	0.37	11.95
PW-9A	OU-1	17.14	NA	NA
PW-9B	OU-1	17.24	NA	NA
PW-10A	OU-1	12.95	0.35	12.56
PW-10B	OU-1	13.24	0.27	12.38
PW-11	OU-1	13.49	0.84	11.57
PW-12	OU-1	12.65	0.39	11.73
PW-13	OU-1	14.45	0.49	11.92
PW-14	OU-1	13.40	4.27	11.99
A-2	OU-1 8.69		1.01	18.3
A-3	OU-1	3.66	0.17	20.4
A-4	OU-1	9.62	0.14	17.7
A-5	OU-1	10.42	2.05	16.1
A-6	OU-1	10.20	4.36	17.1
A-7	OU-1	7.99	0.23	19.4
A-8	OU-1	8.82	4.38	20.8
A-9	OU-1	10.71	2.05	19.4
A-11	OU-1	13.69	0.10	12.8
A-12	OU-1	14.78	0.19	12.5
A-13	OU-1	13.47	0.15	12.8
A-14	OU-1	11.78	0.29	13.0
A-16	ABANDONED			
A-17	OU-1	dry	—	—
A-18	OU-1	dry	—	—
Fox MW-1	Off-Site	5.28	0.13	12.1
Fox MW-2	Off-Site	10.74	0.33	11.76
Fox MW-5	Off-Site	11.58	2.36	11.90
W-8	Off-Site	3.70	1.11	12.10
W-13	Off-Site	5.84	0.40	11.6
W-17	Off-Site	8.64	0.28	11.7
W-4	OU-2	6.67	2.83	12.30
W-3	OU-2	6.83	0.12	11.4
RI-19S	OU-2	4.26	0.48	12.88
RI-19D	OU-2	4.29	0.43	12.37
RI-31	OU-2	6.86	2.23	14.20
RW-4D	OU-2	8.74	0.30	11.91
RW-4S	OU-2	5.93	0.23	12.6
RW-4I	OU-2	6.45	0.31	11.96
RW-5D	OU-2	9.76	0.19	12.07
RW-5I	OU-2	10.15	0.26	12.08
RW-5S	OU-2	9.91	0.13	13.0

RW-6S	6.99	Temp °C	RI-30	5.08	DO mg/L	Temp °C
RW-6I	6.62		W-9	5.51	1.96	15.4
RW-6D	Artesian				2.60	12.6
RI-19	6.64	0.14 15.4	A-2	8.69	1.01	18.3

GROUNDWATER SAMPLING FI[illegible]ATA SHEET

DATE: 08/06/13 SITE/PROJECT: Former BAE 1863 SAMPLING TEAM: DZ/CES Sunny 74°F

WELL INFORMATION		PURGE	PARAMETERS							08/05/13 DR890			SAMPLING			
SAMPLE LOCATION	WELL DIAM.	RATE GPM	TIME	TEMP (C)	COND ~~(us/cm)~~ mS	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)	DOWNHOLE DO (mg/L)	FERROUS IRON (mg/L)	PURGE VOLUME	TIME	GAL TANK	COMMENTS	Grundfos
PW9A	1"	~0.15	1010	20.12	1.45	1.14	6.95	144	43.6	NA	0.04	3	1030	10	6 VOAS DEDICATED TUBING	PP
			1017	18.06	1.47	1.11	6.80	158	4.6							
			1024	17.33	1.43	1.07	6.87	158	4.2							
			1030	17.10	1.37	1.18	6.94	156	2.5							
PW9B	1"	~0.15	1042	20.05	0.577	0.07	7.76	-23	5.2	NA	0.01	5	1120		6 VOAS DEDICATED TUBING	PP
			1056	19.12	0.570	0.00	7.73	39	8.4							
			1107	18.63	0.579	0.00	7.72	53	9.2							
			1115	18.74	0.580	0.00	7.71	58	8.2							
FOX MW-1	6" 43'	~2.1	1232	14.40	0.638	0.00	7.52	31	12.8	0.13	0.17	65	1310		3 VOAS DEDICATED TUBING	100'
			1246	13.84	0.630	0.00	7.30	2	15.1							
			1256	13.61	0.629	0.00	7.25	7	10.9							
			1308	13.60	0.628	0.00	7.30	8	8.7							
RI-19S	2" 56'	~1.8	1332	13.65	0.319	0.00	7.03	-91	10.8	0.48	1.41	40	1400	70 ON HILL	3 VOAS New 100FT Tubing	100'
			1340	13.59	0.316	0.00	6.91	-95	2.4							
			1350	13.56	0.314	0.00	6.88	-94	2.1							
			1359	13.55	0.314	0.00	6.90	-93	1.9							
RI-19D	2" 78'	~1.7	1408	13.36	0.331	0.00	7.05	-92	0.0	0.43	1.28	50	1440	110	3 VOAS Decon 100FT Tubing	100'
			1419	13.36	0.329	0.00	7.06	-97	2.2							
			1429	13.39	0.329	0.00	7.05	-98	1.9							
			1439	13.33	0.325	0.00	7.05	-99	1.9							
RW-2	6" ~120'	~2.0	1505	13.93	0.459	0.00	7.71	-110	12.6	0.20	0.20	90	1550	170 ON HILL	3 VOAS DEDICATED TUBING	200'
			1520	13.89	0.478	0.00	7.68	-81	9.9							
			1535	13.85	0.500	0.00	7.65	-22	6.3							
			1550	13.83	0.504	0.00	7.64	-19	5.9							
RW-3	6" ~160	~2.5	1653	14.13	0.520	0.41	7.80	-187	10.3	0.24	2.06	120	1745	100	3 VOAS DEDICATED TUBING	200'
			1711	13.98	0.517	0.00	7.65	-208	2.5							
			1725	13.77	0.512	0.00	7.50	-180	2.3							
			1744	13.69	0.506	0.00	7.48	-164	2.2							

COMMENTS: 1400: AIR CALIBRATED HORIBA, CES completed LL'S/DO'S/Temps Downhole IN AM.
START: 42369694 1550-1650 unloaded 175 Gallons into AST

GROUNDWATER SAMPLING FIELD DATA SHEET

Cloudy 72°F

DATE: 08/07/13 SITE/PROJECT: Former BAE/1863 SAMPLING TEAM: DE/CES

WELL INFORMATION		PURGE	PARAMETERS							08/05/13 DR890		SAMPLING				
SAMPLE LOCATION	WELL DIAM.	RATE GPM	TIME	TEMP (C)	COND mS (~~us~~/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)	DOWNHOLE DO (mg/L)	FERROUS IRON (mg/L)	PURGE VOLUME	TIME	GAL TANK	COMMENTS	Gronlfs
W-10	3.5"	~1.4	0805	13.36	0.558	3.21	6.36	262	28.0	1.32	0.40	20	0820		3 VOAS	
			0810	13.37	0.532	3.14	6.25	252	21.4							
	32'		0815	13.38	0.529	2.90	6.22	241	19.8						DEDICATED TUBING	100'
			0819	13.39	0.529	2.81	6.21	233	18.2							
W-12	3.5"	w1.4	0828	13.03	0.764	3.49	4.81	306	17.5	2.38	0.28	25	0850		3 VOAS	
			0835	13.03	0.711	2.24	5.07	302	30.1							
	45'		0839	13.05	0.690	2.18	5.20	298	36.9						DEDICATED TUBING	200'
			0846	13.06	0.677	2.01	5.19	295	36.3							
RW-4D	~~3.5"~~ 2"	~2.0	0919	13.10	0.305	2.20	7.17	7	4.7	0.30	0.27	55	0950	45	3 VOAS	
			0928	13.34	0.305	0.56	7.69	-112	2.3							
			0938	13.35	0.305	0.54	7.70	-57	2.2						NEW TUBING	200'
	200'		0948	13.34	0.305	0.52	7.71	-57	2.3							
RW-4I	2"	~2.0	0959	13.19	0.281	0.81	7.70	-105	116	0.31	0.0	50	1025	100	3 VOAS GW holder	
			1008	14.01	0.279	0.41	7.67	-93	321						While Cloudy	AT1008
			1015	14.17	0.282	0.56	7.57	-49	0.0						DECON TUBING	
	145'		1024	14.15	0.284	0.51	7.62	-42	0.0							200'
RW-5D	2"	~2.0	1055	13.51	0.431	1.45	7.61	-51	7.8	0.19	0.24	55	1120	155	3 VOAS	
			1105	13.75	0.453	0.42	7.61	-107	1.7							
	200'		1114	13.75	0.452	0.36	7.61	-104	1.6							
			1119	13.75	0.452	0.32	7.61	-104	1.4		DE				DECON Tubing	200'
RW-5I	2"	~2.0	1135	13.64	0.386	0.71	7.64	-96	6.0	0.26	0.04	50	1200	200	3 VOAS	
			1144	13.62	0.390	0.49	7.62	-52	5.0							
	145'		1151	13.63	0.395	0.42	7.63	-97	3.1						DECON Tubing	200'
			1159	13.61	0.39	0.32	7.63	-95	2.7							
W-13	3.5"	w2	1301	12.43	0.616	2.03	7.59	-50	8.9	0.90	0.13	45	1325	0	3 VOAS	
			1309	12.33	0.619	1.31	7.58	-50	1.7							
			1316	12.28	0.619	1.12	7.57	-49	1.3						DE DEDicated	
			1324	12.26	0.619	1.05	7.57	-49	1.2						Tubing	200'

COMMENTS: ON 08/06/13 AT 2000 INitialized AND Set IN AUTO CAL HORIBA U-52 (CES) 1220

GROUNDWATER SAMPLING FI[illegible]ATA SHEET

08/07/13 Cloudy 72°F

Cloudy 08/08/13 74°F

DATE: 08/07/13/08/08/13 SITE/PROJECT: Former BASE/1863 SAMPLING TEAM: DZ/CES

WELL INFORMATION		PURGE	PARAMETERS							08/08/13 DR870 SAMPLING						
SAMPLE LOCATION	WELL DIAM.	RATE GPM	TIME	TEMP (C)	COND MS (us/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)	DOWNHOLE DO (mg/L)	FERROUS IRON (mg/L)	PURGE VOLUME	TIME	GAL TANK	COMMENTS	Groundtus
W-17	3.5" 42'	~1.8	1334	12.31	0.532	0.77	7.42	13	3.1	0.28	0.13	45	1400	45	3 VOAS TUBING DEDICATED	100'
			1341	12.38	0.527	0.61	7.41	-2	2.1							
			1349	12.38	0.527	0.59	7.41	-3	2.0							
			1357	12.40	0.526	0.52	7.41	-1	1.3							
FOX MW-2	6" 46'	~2.0	1338	12.32	0.578	8.01	7.33	1	42.1	0.33	0.20	65	1410	53	3 VOAS DEDICATED TUBING	200'
			1345	12.54	0.569	4.04	7.34	-36	401							
			1355	12.45	0.579	2.34	7.34	2	280							
			1408	12.43	0.572	0.48	7.33	-14	273							
RI-20D	2" 105'	~2.5	1440	13.34	0.816	0.61	7.21	-9	1.1	0.31	0.17	50	1500	145 ON HCL	3 VOAS DEDICATED Tubing	200'
			1449	13.42	0.907	0.41	7.22	-29	0.7							
			1454	13.43	0.907	0.38	7.22	-28	0.6							
			1459	13.44	0.907	0.34	7.21	-11	0.6							
PW-7A	2" 108'	~1.6	1517	13.04	0.713	1.04	7.40	-1	157	0.63	0.57	55	1555	208	3 VOAS DEDICATED Tubing	200'
			1523	13.09	0.708	0.94	7.40	-39	38.9							
			1531	13.07	0.707	0.93	7.42	-40	4.2							
			1544	13.11	0.709	0.95	7.41	-40	2.7							
PW-7B	2" 140'	~2.4	0758	13.24	0.568	1.87	7.70	106	38.1	0.22	0.06	70	0830	0	3 VOAS DEDICATED TUBING	200'
			0808	13.11	0.596	0.89	7.41	-22	1.4							
			0816	13.07	0.613	0.89	7.35	-25	0.7							
			0828	13.08	0.626	1.63	7.42	-23	0.6							
W-14	3.5" 45'	~1.0	0853	12.96	0.653	2.32	7.39	163	20.1	1.37	0.76	22	0915	70	6 VOAS W-14 DUP DEDICATED TUBING	100'
			0859	12.94	0.651	1.89	7.36	143	75.0							
			0904	12.90	0.649	1.70	7.34	134	18.1							
			0913	12.96	0.647	1.66	7.33	131	10.1							
PW-6B	2" 84'	~1.4	0937	16.44	0.962	1.77	7.62	162	12.5	0.37	0.43	40	1005	92	3 VOAS DEDICATED TUBING	200'
			0945	17.00	0.641	1.52	7.69	146	8.1							
			0952	16.81	0.695	0.70	7.67	142	21.3							
			1004	16.81	0.698	0.60	7.70	142	31.4							

COMMENTS: 08/07/13 AT 2000 CES CALIBRATED pH ON HORIBA Cloudy white GW

GROUNDWATER SAMPLING FI[illegible]ATA SHEET

Pcloudy 80°F

DATE: 08/08/13 SITE/PROJECT: Former BAE/1863/#2484 SAMPLING TEAM: DE/CES

WELL INFORMATION		PURGE	PARAMETERS							08/08/13 DR890 SAMPLING						
SAMPLE LOCATION	WELL DIAM.	RATE GPM	TIME	TEMP (C)	COND mS (us/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)	DOWNHOLE DO (mg/L)	FERROUS IRON (mg/L)	PURGE VOLUME	TIME	GAL TANK	COMMENTS	Groundfie
W-1	3.5" 38'	0.5-1.0	1017	16.97	2.17	5.52	6.27	206	42.3	1.61	0.81	40	1105	145	3 VOAS #2484 DEDICATED TUBING	100'
			1033	17.00	2.18	2.33	6.55	129	69.1							
			1046	17.15	2.19	2.25	6.57	81	71.3							
			1104	17.21	2.20	2.13	6.58	78	65.3							
RW-1	6" 68'	~2	1030	15.01	2.59	3.04	6.91	178	38.6	2.92	0.83	70	1110	160	3 VOAS #2484 Decon Tubing	200'
			1040	15.03	2.53	2.92	6.91	102	32.3							
			1051	14.85	2.49	2.23	6.99	51	29.1							
			1108	14.95	2.48	2.21	6.99	41	16.1							
PW-14	6" 77'	~2.3	1222	15.26	0.413	5.02	5.36	162	8.5	4.27	0.35	80	1300	10	3 VOAS ~~Dedicated~~ DECON TUBING	100'
			1236	15.42	0.424	3.94	5.87	201	4.4							
			1246	15.53	0.444	3.77	5.99	203	4.4							
			1258	15.37	0.461	3.63	6.11	206	3.3							
PW-12	6" 77'	~2.0	1403	13.88	1.06	4.30	7.30	171	8.9	0.39	0.23	80	1440	105	3 VOAS ~~DEDICATED~~ DECON TUBING	100'
			1413	13.85	1.07	0.61	7.36	86	4.0							
			1423	13.84	1.07	0.47	7.42	44	2.1							
			1438	13.80	1.07	0.52	7.42	42	1.9							

COMMENTS: A-3 0935, A14 1015, A-12 1050, A-13 1128, EFFLUENT 1145 SAMPLED BY JS

1515 - Thunderstorm/Heavy RAIN

GROUNDWATER SAMPLING FI[illegible] ATA SHEET

DATE: 8/8/13 SITE/PROJECT: 1863-Form BAE SAMPLING TEAM: JT

WELL INFORMATION		PURGE	PARAMETERS							08/05/13 ORB90 SAMPLING					
SAMPLE LOCATION	WELL DIAM.	RATE DTW	TIME	TEMP (C)	COND mS (us/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)	DOWNHOLE DO (mg/L)	FERROUS IRON (mg/L)	PURGE VOLUME	TIME	COMMENTS	
A11	6"	14.62	12:24	19.11	1.91	0.80	6.76	4	30.9	2.05	0.70	3	12:50	3 VOAS Dedicated TUBING	PP
		15.22	12:31	14.99	2.07	0.79	6.66	38	0.8						
		15.38	12:40	15.20	2.07	0.71	6.63	68	0.0						
		15.49	12:48	15.32	2.08	0.71	6.63	70	0.0						
A4	6"	10.20	13:03	20.29	0.328	3.20	6.87	-64	0.0	0.14	1.29	2.5	13:15	3 VOAS Dedicated TUBING	PP
		11.00	13:07	19.95	0.313	8.38	6.82	-70	0.0						
		11.05	13:11	20.26	0.303	9.25	6.86	-69	0.0						
		11.25	13:15	20.30	0.313	9.13	6.87	-65	0.0						
A5	6"	11.14	13:34	19.44	0.521	1.67	6.27	73	6.7	2.05	0.14	2.5	13:45	3 VOAS Dedicated TUBING	PP
		11.39	13:37	18.[illegible]	0.465	2.79	5.98	119	0.0						
		11.49	13:40	18.41	0.430	2.58	6.06	101	0.0						
		11.60	13:43	18.38	0.408	2.14	6.10	89	0.0						
A6	6"	10.90	13:55	21.19	1.[illegible]	2.17	6.06	101	192	4.36	0.00	2.5	14:15	3 VOAS Dedicated TUBIN	PP
		11.10	14:00	21.36	1.20	2.02	6.15	99	100						
		11.31	14:05	21.46	1.19	2.41	6.25	96	41.0						
		11.46	14:10	21.57	1.17	1.95	6.27	94	10.0						
A7	6"	6.90	14:18	20.37	1.52	1.36	6.69	-23	273	0.23	1.70	2.5 ~~2.5~~	14:35	3 VOAS DEDICated TUBING	PP
			14:23	20.67	1.54	1.40	6.70	-38	107						
			14:28	20.87	1.57	1.42	6.71	-44	98.0						
			14:33	Dry					[illegible]						

COMMENTS:

Former BAE

#1863 GROUND WATER FIELD SAMPLING SHEET (Low Flow Purge Method)

Site: ~~2484~~ | Date: 8/8/13 | Weather: Overcast

Sample Location: A-14 | Sample Team: JS

Depth to Water: 11.92 | Depth to Product: — | Depth to Bottom: 12.00

Casing Material: PVC | Casing Diameter: 6" | Top of Casing: —

Volume to Purge: Low Flow | Volume Purged: ~2 gallons | Pump Set (ft.) 2 ft off Bottom

Purge Method: Peristaltic | Purge Rate: .75-1 lpm | Sample Method: Peristaltic

	LPM	SU	MS/cm	mg/L	NV	NTU	°C	FT
Time	Rate	pH	Cond.	D.O.	ORP	Turbidity	Temp	D.T.W
9:53	.75lpm	Start						11.92
9:56		6.47	2.37	2.05	-68	3.0	14.51	12.16
9:59		6.42	2.33	1.33	-72	0.0	14.27	12.45
10:02		6.40	2.30	1.14	-74	0.0	14.11	12.60
10:05		6.37	2.27	1.17	-75	0.0	14.09	12.65
10:08		6.35	2.25	1.12	-78	0.0	14.09	12.71
10:12		6.33	2.23	1.09	-80	0.0	14.11	12.76

Well Constants:
2" well = 0.163
4" well = 0.653
6" well = 1.470

Parameters should be measured every five minutes.
Stabilization occurs when 3 consecutive readings are made within specified limits.

Temperature +/- 10%,
pH +/- 0.1 Standard Units

Cond: +/- 3 %
ORP: +/- 10 mV

DO: +/- 10 % (or +/- 0.1 mg/L if < than 1.0 mg/L)
Turb: +/- 10% (or three readings below 50 NTU)

Notes: Start time 9:53 Ferrous Iron 2.76 mg/L.

-3 VOAs | 2484
-3 VOAs | 1863

FORMER BAE

GROUND WATER FIELD SAMPLING SHEET (Low Flow Purge Method)

Site: BAE 1863 Date: 8/8/13 Weather: Overcast/Light rain
Sample Location: A-3 Sample Team: JS
Depth to Water: 3.05 Depth to Product: NA Depth to Bottom: 11.00
Casing Material: PVC Casing Diameter: 6" Top of Casing: PVC
Volume to Purge: Low Flow Volume Purged: ~2 gallons Pump Set (ft.) 2ft from bottom
Purge Method: Peristaltic Pump Purge Rate: .75-1 lpm Sample Method:

Time	Rate (LPM)	pH (SU)	Cond. (mS/cm)	D.O. (mg/L)	ORP (mV)	Turbidity (NTU)	Temp (°C)	D.T.W
9:14	.75 lpm	Start						3.05
9:18		6.48	0.111	2.23	194	0.0	20.55	3.27
9:21		6.64	0.105	2.29	188	0.0	20.48	3.30
9:24		6.72	0.103	2.14	183	0.0	20.53	3.35
9:27		6.81	0.102	1.93	176	0.0	20.59	3.50
9:30		6.82	0.102	1.86	174	0.0	20.60	3.56
9:33		6.84	0.101	1.88	172	0.0	20.65	3.63
9:35	SAMPLE							

Well Constants: 2" well = 0.163
4" well = 0.653
6" well = 1.470

Parameters should be measured every five minutes.
Stabilization occurs when 3 consecutive readings are made within specified limits.

Temperature +/- 10%, Cond: +/- 3 % DO: +/- 10 % (or +/- 0.1 mg/L if < than 1.0 mg/L)
pH +/- 0.1 Standard Units ORP: +/- 10 mV Turb: +/- 10% (or three readings below 50 NTU)

Notes: 0.0 mg/L Ferrous Iron
3 VOAS | 2484
3 VOAS | 1863

Former BAE

GROUND WATER FIELD SAMPLING SHEET (Low Flow Purge Method)

Site: ~~2484~~ # 1863 Date: 8/8/13 Weather: Overcast/Light rain

Sample Location: A13 Sample Team: JS

Depth to Water: 14.05 Depth to Product: NA Depth to Bottom: 19.00

Casing Material: PVC Casing Diameter: 6" Top of Casing: –

Volume to Purge: Low Flow Volume Purged: Pump Set (ft.) 2-4 off bottom

Purge Method: Peristaltic Purge Rate: .75-1 lpm Sample Method: Peristaltic

Time	Rate (LPM)	pH (SU)	Cond. (mS/cm)	D.O. (mg/L)	ORP (mV)	Turbidity (NTU)	Temp (C)	D.T.W
11:00	.75 lpm							14.05
11:04		6.54	3.26	4.77	72	4.7	16.53	14.06
11:08		6.50	3.29	2.83	85	0.3	15.87	14.17
11:12		6.49	3.28	1.34	95	0.0	15.81	14.21
11:16		6.48	3.30	3.17	98	0.0	15.69	14.22
11:19		6.48	3.31	3.14	101	0.0	15.42	14.23
11:22		6.49	3.31	2.88	105	0.0	15.50	14.23
11:25		6.47	3.31	2.69	107	0.0	15.56	
11:28	Sample							

Well Constants: 2" well = 0.163
4" well = 0.653
6" well = 1.470

Parameters should be measured every five minutes.
Stabilization occurs when 3 consecutive readings are made within specified limits.

Temperature +/- 10%, Cond: +/- 3 % DO: +/- 10 % (or +/- 0.1 mg/L if < than 1.0 mg/L)
pH +/- 0.1 Standard Units ORP: +/- 10 mV Turb: +/- 10% (or three readings below 50 NTU)

Notes: Ferrous Iron 0.02

3 VOAS 2484
3 VOAS 1863

Former BAE

GROUND WATER FIELD SAMPLING SHEET (Low Flow Purge Method)

Site: BAE - 2484 #1863 Date: 8/8/13 Weather: Overcast/Light rain

Sample Location: A-12 Sample Team: JS

Depth to Water: 15.00 Depth to Product: NA Depth to Bottom: 24.00

Casing Material: PVC Casing Diameter: 6" Top of Casing: NA

Volume to Purge: Low Flow Volume Purged: Pump Set (ft.) 2ft off Bottom

Purge Method: Peristaltic Purge Rate: .75-1 lpm Sample Method: Peristaltic

Time	Rate (LPM)	pH (SU)	Cond. (mS/cm)	D.O. (mg/L)	ORP (MV)	Turbidity (NTU)	Temp (C)	D.T.W
10:26	.75	Stabilized						15.00
10:29		6.72	1.76	1.60	1	1.5	15.66	15.65
10:33		6.70	1.76	0.96	20	0.0	15.27	15.95
10:36		6.70	1.76	0.79	29	0.0	15.30	16.06
10:39		6.70	1.74	0.92	36	0.0	15.38	16.15
10:44		6.70	1.72	0.72	46	0.0	15.44	16.39
10:47		6.67	1.69	0.71	47	0.0	15.44	16.59
10:50	Sample							

Well Constants: 2" well = 0.163
4" well = 0.653
6" well = 1.470

Parameters should be measured every five minutes.
Stabilization occurs when 3 consecutive readings are made within specified limits.

Temperature +/- 10%, Cond: +/- 3 % DO: +/- 10 % (or +/- 0.1 mg/L if < than 1.0 mg/L)
pH +/- 0.1 Standard Units ORP: +/- 10 mV Turb: +/- 10% (or three readings below 50 NTU)

Notes: Ferrous Iron 0.12

- 3 VOAS 2484
- 3 VOAS 1863

GROUNDWATER SAMPLING FI[illegible]ATA SHEET

RAIN overnight cloudy 76°F

DATE: 08/09/13 SITE/PROJECT: Former BAE/1863 SAMPLING TEAM: DZ/CES

WELL INFORMATION		PURGE	PARAMETERS							08/05/13 DR890 SAMPLING						
SAMPLE LOCATION	WELL DIAM.	RATE GPM	TIME	TEMP (C)	COND ~~(us/cm)~~ mS	DO ~~(mg/L)~~ mg/L	pH (SU)	ORP (mV)	Turbidity (NTU)	DOWNHOLE DO (mg/L)	FERROUS IRON (mg/L)	PURGE VOLUME	TIME	GAL TANK	COMMENTS	Grundfos
W-3	3.5 22'	w1.5	0806	13.80	0.421	4.45	6.39	92	498	0.12	2.76	22	0820	5	3 VOAS DEDICATED Tubing	100'
			0810	13.88	0.422	2.29	6.31	62	366							
			0814	13.76	0.426	1.50	6.24	29	306							
			0819	13.78	0.428	1.40	6.32	36	299							
W-8	3.5" 28'	w1.6	0841	15.56	0.604	2.13	5.89	210	22.9	1.11	0.47	30	0900	22	3 VOAS Dedicated TUBING	100'
			0848	16.06	0.379	1.57	5.83	199	13.5							
			0853	16.35	0.361	1.62	5.83	196	13.3							
			0859	16.35	0.359	1.51	5.83	194	12.9							
PW-10B	2" 82'	w1.7	0923	13.58	0.679	2.55	7.43	217	14.1	0.27	0.56	40	0940	55	3 VOAS Dedicated Tubing	200'
			0929	13.59	0.671	0.79	7.53	206	10.2							
			0934	13.59	0.677	0.63	7.55	202	8.5							
			0939	13.59	0.679	0.57	7.56	198	6.9							
PW-8B	2" 98'	w2.1	0952	13.26	0.871	0.69	7.32	46	32.1	0.37	0.55	40	1010	110 ON HCL	3 VOAS Dedicated Tubing	200'
			1001	13.32	0.911	0.50	7.34	-10	5.1							
			1005	13.31	0.915	0.47	7.34	-13	4.5							
			1009	13.29	0.916	0.43	7.35	-15	4.4							
PW-13	2" 77'	w1.6	1034	15.12	0.880	3.10	7.62	-48	8.0	0.40	0.22	80	1125	190 ON HCL	3 VOAS Dedicated Tubing	100'
			1030	15.20	0.895	0.95	7.65	-50	13.8							
			1110	15.00	0.896	1.15	7.64	-49	12.9							
			1124	15.09	0.893	0.97	7.63	76	13.9							
~~PW-6A~~ DZ			~~0759~~ DZ	~~17.14~~	~~0.929~~	~~2.30~~	~~7.41~~	~~150~~	~~143~~							

COMMENTS:

C:\Documents and Settings\chine\Desktop\Low FLow Field Data Sheet 4-24-09.xls

GROUNDWATER SAMPLING FI ATA SHEET

Light RAIN 74°F

DATE: 08/12/13 SITE/PROJECT: FORMER BAE/1863 SAMPLING TEAM: DZ/CES

WELL INFORMATION		PURGE	PARAMETERS							08/05/13 DA890 SAMPLING						
SAMPLE LOCATION	WELL DIAM.	RATE GPM	TIME	TEMP (C)	COND mS (us/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)	DOWNHOLE DO (mg/L)	FERROUS IRON (mg/L)	PURGE VOLUME	TIME	GAL TANK	COMMENTS	Groundfos
PW-6A	2" 50'	~2.0	0759	17.14	0.929	0.30	7.41	150	143	0.61	1.16	30	0815	DZ	3 VOAS Dedicated Tubing	100'
			0804	16.77	0.926	1.01	7.37	145	130							
			0810	16.97	0.909	0.57	7.44	143	160							
			0814	17.01	0.906	0.51	7.44	145	154							
PW-4	6" 57'	~2.0	0829	16.72	4.35	0.12	5.55	149	447	0.17	2 To 1 2.42	60	0900	30	3 VOAS Dedicated Tubing	100
			0837	17.00	4.52	0.61	5.47	167	600							
			0846	17.12	4.51	0.51	5.51	114	223							
			0858	17.18	4.44	0.48	5.55	99	208							
PW-5	6" 67'	~2.0	0840	17.52	5.42	5.03	5.18	200	150	6.01	1.04	70	0915		6 VOAS DUP Dedicated Tubing	200'
			0855	18.69	5.09	2.52	6.00	92	188							
			0905	18.51	4.99	5.02	6.01	133	114							
			0914	18.49	4.98	5.15	6.09	142	108							
Recovery Well	6" 92'	~2.0	0924	16.52	3.42	5.97	5.57	194	57.1	5.58	0.48	100	1020	165	3 VOAS Dedicated Tubing	200'
			0941	16.34	3.37	4.97	5.58	201	31.3							
			0959	16.06	2.73	3.93	5.98	199	23.1							
			1014	15.99	2.69	3.41	6.02	208	21.0							
PW-1	6" 56'	~2.0	0931	17.04	4.14	3.17	5.02	225	604	3.15	1 to 2 2.37	70	1005		3 VOAS Dedicated TUBING	100'
			0940	17.56	4.19	2.79	5.09	230	583							
			0955	17.39	3.30	2.72	5.66	218	126							
			1004	17.55	3.39	2.81	5.64	216	68.1							
RW-4S	6" 48'	~2.3	1058	13.20	0.171	4.15	6.94	-29	93.3	0.23	2.72	50	1120	0	3 VOAS Decon 100FT Tubing	100'
			1108	13.09	0.115	1.12	6.03	40	44.0							
			1113	13.14	0.105	1.28	6.01	44	43.9							
			1119	13.12	0.105	1.22	6.02	46	40.9							
PW-3	6" 56'	~2.0	1140	14.15	2.78	4.11	5.78	125	15.0	4.76	1.01	60	1210	60	3 VOAS DEDICated TUBING	200'
			1148	14.25	2.87	3.21	5.21	160	54.1							
			1154	15.05	2.28	3.10	6.27	151	113							
			1209	14.91	2.26	3.03	6.34	151	101							

COMMENTS:

GROUNDWATER SAMPLING F[illegible]D DATA SHEET

DATE: 08/12/13 SITE/PROJECT: Former BAE/1863 SAMPLING TEAM: DZ/

WELL INFORMATION		PURGE	PARAMETERS							08/05/13 DR890 SAMPLING						
SAMPLE LOCATION	WELL DIAM.	RATE GPM	TIME	TEMP (C)	COND mS ~~(us/cm)~~	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)	DOWNHOLE DO (mg/L)	FERROUS IRON (mg/L)	PURGE VOLUME	TIME	GAL Tandy	COMMENTS	Gradtys
PW-2	6"	~2	1146	14.16	2.79	3.19	5.77	150	14.7	2.63	0.37	60	1220	78	3 VOAS DEDICated Tubing	100'
			1154	14.21	2.79	3.04	5.78	159	13.9							
			1208	14.22	2.79	3.02	5.78	164	13.9							
	57		1219	14.21	2.79	2.88	5.78	169	11.8							
Fox MW-5	6"	DZ ~2.1	1251	12.50	0.664	3.27	7.57	120	27.3	2.36	0.44	65	1320	5	3 VOAS DEDICated TUBING	100'
			1301	12.34	0.668	1.98	7.60	40	133.0							
	46'		1310	12.30	0.671	1.87	7.62	59	15.7							
			1319	12.29	0.673	1.80	7.62	66	10.9							

COMMENTS:

GROUNDWATER SAMPLING FIELD DATA SHEET

Heavy RAIN 4AM - 0915AM THEN LIGHT RAIN 78°F

DATE: 08/13/13 SITE/PROJECT: FORMER BAE/1863 SAMPLING TEAM: DZ/CES

WELL INFORMATION		PURGE	PARAMETERS							08/05/13 DRSAU			SAMPLING		
SAMPLE LOCATION	WELL DIAM.	RATE GPM DTW	TIME	TEMP (C)	COND mS µs/cm	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)	DOWNHOLE DO (mg/L)	FERROUS IRON (mg/L)	PURGE VOLUME	TIME	GAL TANK	COMMENTS
A-8	6"	0.125 6.56 7.01 7.20 7.37	0940	22.00	.649	8.88	7.94	220	288	4.38	1.07	2.5	1000	0	3 VOAS DEDICated TUBING PP
			0946	21.61	.594	8.86	8.02	213	121						
			0951	21.63	0.513	8.82	8.07	211	90.1						
			0958	21.72	0.444	8.73	8.08	202	76.2						
A-9	6"	0.15 9.50 9.53 9.51 9.50	1009	22.45	0.273	9.59	7.40	242	44.2	2.05	0.55	2.5	1025	2.5	3 VOAS DEDICated TUBING PP
			1014	22.36	0.272	8.61	7.41	248	39.0						
			1019	22.38	0.272	8.49	7.41	254	37.7						
			1024	22.38	0.272	8.45	7.40	256	35.5						
A-2	6"	0.15 1.19 1.19 1.19 1.20	1044	20.85	0.167	8.51	7.51	259	60.1	1.01	0.54	3.0	1105	5.0	3 VOAS DEDICated TUBING PP
			1049	20.67	0.157	8.46	7.46	264	47.1						
			1056	20.73	0.148	8.46	7.49	268	46.3						
			1104	20.70	0.148	8.44	7.49	272	45.0						
W-4	3.54" 28'	W1.5	1146	14.23	0.116	3.27	5.55	322	8.0	2.83	0.33	30	1205	8.0	3 VOAS DEDICated TUBING 100'
			1153	14.52	0.124	2.50	5.11	327	4.3						
			1159	14.42	0.124	2.52	5.05	331	3.6						
			1204	14.49	0.124	2.23	5.04	331	3.5						
RW-55	6" 40'	W2.6	1237	13.44	0.164	0.45	6.04	108	713		2.54	60	1300	60	3 VOAS Decon 100FT Tubing 100'
			1247	13.46	0.252	0.10	6.37	67	267						
			1253	13.57	0.263	0.11	6.40	63	224						
			1259	13.54	0.270	0.13	6.43	60	197						
RJ-31	1" 8.0 8.22	TB 7.10 7.92 8.08 7.14	1317	18.49	0.186	2.61	5.30	175	17.9	Let Recharge	1.61	1.25	1345		3 VOAS LLI TRIP BLANK 1350 TYMAX 8 VOAS PP
			1320	18.78	0.182	2.51	5.18	166	14.4						
			1323	18.50	0.183	3.00	5.15	183	13.9						
			1343	18.45	0.189	2.91	5.09	208	5.5						

COMMENTS:

GROUNDWATER SAMPLING F[illegible]D DATA SHEET

Sunny 72°F

DATE: 08/14/13 SITE/PROJECT: Former BAE/1863/BS Wells SAMPLING TEAM: DZ/CES

WELL INFORMATION		PURGE	PARAMETERS							08/15/13 DR890 SAMPLING						
SAMPLE LOCATION	WELL DIAM.	RATE GPM	TIME	TEMP (C)	COND (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)	DOWNHOLE DO (mg/L)	FERROUS IRON (mg/L)	PURGE VOLUME	TIME	GAC TANK	COMMENTS	Gravities
W-16	3.5" 45'	~1.8	0807	13.37	0.510	2.27	7.10	285	40.1	1.17	0.71	40	0835		20 Containers Deoicated Tubing	100'
			0816	13.20	0.486	1.57	6.88	258	303							
			0826	13.20	0.502	1.53	6.91	247	309							
			0834	13.19	0.503	1.48	6.93	240	311							
W-1	3.5' 38'	~1.0	0846	13.65	1.15	3.37	6.58	246	58.6	1.61	0.61	40	0930	55	20 containers Deoicated Tubing	100'
			0900	16.19	1.55	2.64	6.61	241	111							
			0915	16.20	1.63	2.47	6.65	239	121							
			0928	16.22	1.63	2.38	6.66	245	133							
RW-1	6" 68'	~1.5	0855	14.40	2.43	2.85	6.86	247	37.1	2.92	0.55	70	0945	70	20 + metals QG New Tubing	200'
			0909	13.89	2.44	2.34	6.93	238	37.6							
			0928	13.90	2.39	1.91	6.96	228	41.3							
			0941	13.92	2.38	1.81	6.95	226	24.9							
PW-8A	2" 44'	~1.0	1002	12.33	0.665	2.91	7.40	187	560	0.13	1.11	30	1025	180	20 Containers Deoicated Tubing	200'
			1009	12.47	0.665	1.34	7.37	189	14.8							
			1016	12.41	0.663	1.09	7.36	190	11.1							
			1024	12.43	0.659	1.81	7.33	194	4.3							
PW-11	6" 77'	~1.5	1010	12.71	0.855	0.35	7.64	178	4.9	0.84	0.37	80	1100	195	20 Containers PW-1 Deicoated Tubing	100'
			1025	12.88	0.863	0.17	7.67	174	4.1							
			1039	12.83	0.784	0.21	7.59	176	5.9							
			1058	12.82	0.783	0.23	7.58	175	5.1							
PW-10A	2" 48'	~1.4	1146	13.05	1.25	4.10	6.95	233	57.1	0.35	0.56	35	1210	10	20 containers Deoicated Tubing	200'
			1152	12.99	1.24	1.83	6.92	229	11.6							
			1200	12.98	1.20	1.47	6.97	225	9.4							
			1208	13.00	1.19	1.18	7.00	223	8.5							
RJ-20S	2" 77'	~1.3	1222	13.25	0.928	1.53	7.49	205	3.2	0.53	0.38	50	1300	70 on Well	23 Containers Plus DUP Deoicated Tubing	200'
			1232	13.07	0.936	1.33	7.56	204	2.3							
			1241	12.98	0.944	1.27	7.56	204	2.2							
			1256	12.97	0.947	1.23	7.56	204	2.3							

COMMENTS:

GROUNDWATER SAMPLING FI ATA SHEET

DATE: 08/14/13 SITE/PROJECT: FORMER BAF SAMPLING TEAM: DZ/CFS

WELL INFORMATION		PURGE	PARAMETERS							SAMPLING				
SAMPLE LOCATION	WELL DIAM.	RATE mL/m DTW	TIME	TEMP (C)	COND (us/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)	DOWNHOLE DO (mg/L)	FERROUS IRON (mg/L)	PURGE VOLUME	TIME	COMMENTS
RI-30	1"	50 4.36	1317	19.18	0.108	4.39	5.95	259	72.1					3 VOAS
		6.10	1320	19.19	0.108	6.00	5.63	240	63.2	LET Recharge	1.39	0.25	1340	
	8.95	9.0 DTB	132											NEW TUBING
FIELD BLANK-01													1350	6 VOAS
RINSATE BLANK-01													1400	3 VOAS

COMMENTS: END TOTALIZER 42372168

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Field Calilbration Log

Project	BAE/1863	Task #	001
Analyst Name	Charles	Date	8/1/13
Model	US2		
Equipment Serial #		New Solutions	

Calibration	Range	Lot #	Reading		
pH - 4	+/- 0.05	3.97		Time	1515
pH - 10	+/- 0.05	10.04			
pH - 7	+/- 0.1	6.98			
DO (mg/l)	standard	0.00	0.00		
	0.3 of standard	0.15	0.00		
	standard	@23.3°C 8.35	@23.1 8.38		
	0.3 of standard	8.57	8.39		
Conductivity	standard	0.000			
(mS/cm)	1% of standard	0.000			
	standard	0.718			
	1% of standard	0.740			
	standard				
	1% of standard				
	standard				
	1% of standard				
Turbidity (NTU)	standard	0.0			
	10% of standard	0.1			
	standard	~~10.0~~ 100			
	10% of standard	116			
	standard				
	10% of standard				
Temperature (°C)	standard				
	10% of standard				
ORP (mV)	standard	240			
	meter value	241			

Field Calilbration Log

Project	BAE/1863	Task #	001
Analyst Name	Charles	Date	~~8/6/13~~ 8/7/13
Model	U52		
Equipment Serial #			

Calibration	Range	Lot #	Reading		
pH - 4	+/- 0.05		4.00	Time	2000
pH - 10	+/- 0.05		9.90		
pH - 7	+/- 0.1		6.97		
DO (mg/l)	standard				
	0.3 of standard				
	standard				
	0.3 of standard				
Conductivity	standard				
(mS/cm)	1% of standard				
	standard				
	1% of standard				
	standard				
	1% of standard				
	standard				
	1% of standard				
Turbidity (NTU)	standard				
	10% of standard				
	standard				
	10% of standard				
	standard				
	10% of standard				
Temperature (^{o}C)	standard				
	10% of standard				
ORP (mV)	standard				
	meter value				

Field Calilbration Log

Project	BAE/1863	Task #	001
Analyst Name	Charles	Date	8/9/13
Model	U52		
Equipment Serial #			

Calibration	Range	Lot # Reading		
pH - 4	+/- 0.05	4.03	Time	1400
pH - 10	+/- 0.05	10.03		
pH - 7	+/- 0.1	7.01		
DO (mg/l)	standard	0.00		
	0.3 of standard	0.29		
	standard	@ 23.1°C 8.38		Bumped 8.30 mg/L
	0.3 of standard	8.87		
Conductivity	standard	0.000		
(mS/cm)	1% of standard	0.000		
	standard	0.718		
	1% of standard	0.752		
	standard			
	1% of standard			
	standard			
	1% of standard			
Turbidity (NTU)	standard	0.0		
	10% of standard	0.0		
	standard	100		
	10% of standard	56.9		
	standard			
	10% of standard			
Temperature (°C)	standard	23.20		
	10% of standard	23.67		
ORP (mV)	standard	240		
	meter value	239		

Canada Customs and Revenue Agency | Agence des douanes et du revenu du Canada

CANADA CUSTOMS INVOICE
FACTURE DES DOUANES CANADIENNES

Vendor (name and address) - Vendeur (nom et adresse)

2. Date of direct shipment to Canada - Date d'expédition directe vers le Canada

3. Other references (include purchaser's order No.)
Autres références (inclure le n° de commande de l'acheteur)

4. Consignee (name and address) - Destinataire (nom et adresse)

SiREM Laboroatory (GeoSyntec)
130 Research Lane, Suite 2
Guelph, Ontario
N1G 5G3
CANADA

5. Purchaser's name and address (if other than consignee)
Nom et adresse de l'acheteur (s'il diffère du destinataire)

6. Country of transhipment - Pays de transbordement

7. Country of origin of goods
Pays d'origine des marchandises

IF SHIPMENT INCLUDES GOODS OF DIFFERENT ORIGINS ENTER ORIGINS AGAINST ITEMS IN 12.
SI L'EXPÉDITION COMPREND DES MARCHANDISES D'ORIGINES DIFFÉRENTES, PRÉCISEZ LEUR PROVENANCE EN 12.

8. Transportation: Give mode and place of direct shipment to Canada
Transport : Précisez mode et point d'expédition directe vers le Canada

FedEx

9. Conditions of sale and terms of payment
(i.e. sale, consignment shipment, leased goods, etc.)
Conditions de vente et modalités de paiement
(p. ex. vente, expédition en consignation, location de marchandises, etc.)

TEST SAMPLES for destructive analysis

10. Currency of settlement - Devises du paiement

11. Number of packages Nombre de colis	12. Specification of commodities (kind of packages, marks and numbers, general description and characteristics, i.e., grade, quality) Désignation des articles (nature des colis, marques et numéros, description générale et caractéristiques, p. ex. classe, qualité)	13. Quantity (state unit) Quantité (précisez l'unité)	Selling price - Prix de vente 14. Unit price Prix unitaire	15. Total
1	Groundwater sample(s) for destructive analysis	1.000 unit/unité	10.00	10.00
		unit/unité		0.00
		unit/unité		0.00
		unit/unité		0.00
		unit/unité		0.00
		unit/unité		0.00
		unit/unité		0.00
		unit/unité		0.00
		unit/unité		0.00
		unit/unité		0.00
		unit/unité		0.00
		unit/unité		0.00

18. If any of fields 1 to 17 are included on an attached commercial invoice, check this box ☐
Si tout renseignement relativement aux zones 1 à 17 figure sur une ou des factures commerciales ci-attachées, cochez cette case
Commercial Invoice No. / N° de la facture commerciale _____

16. Total weight - Poids total
Net | Gross - Brut

17. Invoice total
Total de la facture
10.00

19. Exporter's name and address (if other than vendor)
Nom et adresse de l'exportateur (s'il diffère du vendeur)

20. Originator (name and address) - Expéditeur d'origine (nom et adresse)

21. CCRA ruling (if applicable) - Décision de l'Agence (s'il y a lieu)

22. If fields 23 to 25 are not applicable, check this box ☑
Si les zones 23 à 25 sont sans objet, cochez cette case

23. If included in field 17 indicate amount:
Si compris dans le total à la zone 17, précisez :

(i) Transportation charges, expenses and insurance from the place of direct shipment to Canada
Les frais de transport, dépenses et assurances à partir du point d'expédition directe vers le Canada

(ii) Costs for construction, erection and assembly incurred after importation into Canada
Les coûts de construction, d'érection et d'assemblage après importation au Canada

(iii) Export packing
Le coût de l'emballage d'exportation

24. If not included in field 17 indicate amount:
Si non compris dans le total à la zone 17, précisez :

(i) Transportation charges, expenses and insurance to the place of direct shipment to Canada
Les frais de transport, dépenses et assurances jusqu'au point d'expédition directe vers le Canada

(ii) Amounts for commissions other than buying commissions
Les commissions autres que celles versées pour l'achat

(iii) Export packing
Le coût de l'emballage d'exportation

25. Check (if applicable):
Cochez (s'il y a lieu) :

(i) Royalty payments or subsequent proceeds are paid or payable by the purchaser
Des redevances ou produits ont été ou seront versés par l'acheteur ☐

(ii) The purchaser has supplied goods or services for use in the production of these goods
L'acheteur a fourni des marchandises ou des services pour la production de ces marchandises ☐

Dans ce formulaire, toutes les expressions désignant des personnes visent à la fois les hommes et les femmes.

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

For Eurofins Lancaster Laboratories use only
Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

COC #331034

1 Client Information

Client: Environmental Alliance
Acct. #:
Project Name/#: Fomer BAE/1863
PWSID #:
Project Manager: Chris Thorney/Kevin Howe
P.O. #: 6799
Sampler: Derek Jay
Quote #:
Name of state where samples were collected: PA

4 Matrix: Sediment ☐ Soil ☐ Ground ☑ Potable ☐ Surface ☐ NPDES ☐ Water Other: ____

5 Analysis Requested — Preservation Codes

For Lab Use Only
FSC:
SCR#: 1420260

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Total # of Containers	Vox's 8260	8260B SIM method	Remarks
PW-9A	08/06/13	1030	✓		6	X	X	MS/MSD Samples To Follow
PW-9B	08/06/13	1120	✓		6	X	X	
Fox MW-1	08/06/13	1310	✓		3	X		
RI-19S	08/06/13	1400	✓		3	X		
RI-19D	08/06/13	1440	✓		3	X		
RW-2	08/06/13	1550	✓		3	X		
RW-3	08/06/13	1745	✓		3	X		
W-10	08/07/13	0820	✓		3	X		
W-12	08/07/13	0850	✓		3	X		
RW-4D	08/07/13	0950	✓		3	X		

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZ-EDD

E-mail address:

8 Data Package Options (circle if required)
Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
Matthew Strouse	7-30-13	0930	Doug Lemon	7-30-13	0930
Doug Lemon	7-30-13	1100	[illegible]	08/06/13	0630
[illegible]	08/08/13	1330	[illegible]	08/08/13	1330

EDD Required? Yes No
If yes, format: EZ-EDD

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

For Eurofins Lancaster Laboratories use only
Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

COC # 331035

1 Client Information

Client: Environmental Alliance	Acct. #:
Project Name/#: Former BAE/1863	PWSID #:
Project Manager: Chris Thoeny/Chris Hine	P.O. #: 6799
Sampler: Derek ZAY	Quote #:
Name of state where samples were collected: PA/4U 15.55 0.99 3.77 3.94	

For Lab Use Only
FSC: _____
SCR#: _____

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

2 Sample Identification / 3 / 4 Matrix / 5 Analysis Requested

Preservation Codes: H

Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	4 Soil	4 Sediment	4 Water (Ground)	4 Water (Potable)	4 Water (Surface)	4 Water (NPDES)	4 Other:	Total # of Containers	5 VOCs 8260	6 Remarks
RW-4I	08/07/13	1025	✓				✓					3	X	
RW-5D	08/07/13	1120	✓				✓					3	X	
RW-5I	08/07/13	1200	✓				✓					3	X	
W-13	08/07/13	1325	✓				✓					3	X	
W-17	08/07/13	1400	✓				✓					3	X	
Fox MW-2	08/07/13	1410	✓				✓					3	X	
RI-200	08/07/13	1500	✓				✓					3	X	
PW-7A	08/07/13	1555	✓				✓					3	X	
PW-7B	08/08/13	0830	✓				✓					3	X	
W-14	08/08/13	0915	✓				✓					3	X	

7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZ-EDD

E-mail address: _____

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	08/08/13	1330	[signature]	08/8/13	1330

EDD Required? Yes No
If yes, format: EZ-EDD

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

For Eurofins Lancaster Laboratories use only
Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

COC #331036

1 Client Information

Client: Environmental Alliance	Acct. #:
Project Name/#: Former BAE/18613	PWSID #:
Project Manager: Chris Thomas / Chris Hine	P.O. #: 6799
Sampler: Derek Zak / John Shannon	Quote #:
Name of state where samples were collected:	

For Lab Use Only
FSC: _____
SCR#: _____

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

2 Sample Identification / 3 / 4 Matrix / 5 Analysis Requested / 6 Remarks

Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	4 Sediment	4 Soil	4 Water: Ground	4 Water: Potable	4 Water: Surface	4 Water: NPDES	4 Other:	Total # of Containers	5 VOC's 8260 (Preservation Codes: H)	6 Remarks
W-14 DUP	08/08/13	0915	✓				✓					3	X	MORE SAMPLES
PW-6B	08/08/13	1005	✓				✓					3	X	to FALLOW
A-3	08/08/13	0935	✓				✓					3	X	B
A-14	08/08/13	1015	✓				✓					3	X	B
A-12	08/08/13	1050	✓				✓					3	X	B
A-13	08/08/13	1128	✓				✓					3	X	B
TRIP BLANK	07/29/13		✓				✓					4	X	

7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZ-EDD

E-mail address: _____

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

Type IV (CLP SOW) MA MCP CT RCP

1526 BACB

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	08/08/13	1330	[signature]	08/08/13	1330

7/23 10:48

EDD Required? Yes No
If yes, format: EZ-EDD

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

For Eurofins Lancaster Laboratories use only
Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

COC #331040

1 Client Information

Client: Environmental Alliance	Acct. #:
Project Name/#: Former BAE/1863	PWSID #:
Project Manager: Chris Thoeny/Chris Hine	P.O. #: 6799
Sampler: Derek Zax	Quote #:
Name of state where samples were collected: PA	

2 Sample Identification / **3 Collected**

Sample Identification	Date	Time	Grab	Composite	Soil	Water (Potable / Ground / NPDES / Surface)	Other:	Total # of Containers	8260B SIMS method (H)	8260 VOC's (H)									
FIELD BLANK-01	08/14/13	1350	✓			✓		6	3	3									More Samples
RINSATE BLANK-01	08/14/13	1400	✓			✓				3									To Fallow

4 Matrix: Sediment ☐ Soil ☐ Water: Potable ☐ Ground ☐ NPDES ☐ Surface ☐ Other: ____

5 Analysis Requested — Preservation Codes

For Lab Use Only
FSC: _____
SCR#: _____

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

6 Remarks

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZ-EDD

E-mail address: _____

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	08/14/13	1530	Bill DeFrey	8-14-13	1530

EDD Required? Yes No
If yes, format: EZ-EDD

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

Environmental Analysis Request/Chain of Custody

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For Eurofins Lancaster Laboratories use only
Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

COC #331041

1 Client Information

Client: Environmental Alliance	Acct. #:
Project Name/#: Former BAF/18663	PWSID #:
Project Manager: Chris Thoeny / Chris Hoe	P.O. #: 6799
Sampler: Derell Zay	Quote #:
Name of state where samples were collected: PA	

For Lab Use Only
FSC: _____
SCR#: _____

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

4 Matrix / 5 Analysis Requested

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Sediment	Water: Potable	Water: Ground ✓	Water: NPDES	Water: Surface	Other:	Total # of Containers	SIMS 8260B (H)	VOCs 8260 (H)	NITRATE NITROGEN	6 Remarks
W-16	08/14/13	0835	✓					✓				7	3	3	1	More Samples
W-1	08/14/13	0930	✓					✓				7	3	3	1	To Follow
RW-1	08/14/13	0945	✓					✓				7	3	3	1	
PW-8A	08/14/13	1025	✓					✓				7	3	3	1	
PW-11	08/14/13	1100	✓					✓				7	3	3	1	
PW-10A	08/14/13	1210	✓					✓				7	3	3	1	
RI-20S	08/14/13	1300	✓					✓				7	3	3	1	
TRIP BLANK	05/29/13		✓					✓				2		2		
RI-20S DUP	08/14/13	1300	✓					✓				3		3		
RI-30	08/14/13	1340	✓					✓				3		3		

7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZEDD

E-mail address: _____

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	08/14/13	1530	[signature]	8-14-13	15:30

EDD Required? Yes No
If yes, format: EZEDD

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

Environmental Analysis Request/Chain of Custody

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For Eurofins Lancaster Laboratories use only
Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

COC #331033

1 Client Information

Client: Environmental Alliance
Acct. #:
Project Name/#: FORMER BAF/1863
PWSID #:
Project Manager: Chris Thoeny / Chris Hine
P.O. #: 6799
Sampler: Derek ZAY
Quote #:
Name of state where samples were collected: PA

For Lab Use Only
FSC:
SCR#: 143228

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	4 Sediment	Soil	Ground	Potable	Surface	NPDES	Water	Other:	Total # of Containers	~~PCBs STD Water~~	~~VOA STD Water~~	IRON	SULFIDE	DISSOLVED ORGANIC CARBON	SULFATE	NITRATE NITROGEN	Phenolphthalein Alkalinity/Total Alkalinity	TOTAL ORGANIC CARBON	BOD STD Water Mosser	6 Remarks
W-16	08/14/13	0835	✓								✓		9			1	1	1	2	1	1	2		Samples
W-1	08/14/13	0930	✓								✓		9			1	1	1	2	1	1	2		completed
RW-1	08/14/13	0945	✓								✓		9			1	1	1	2	1	1	2		
PW-8A	08/14/13	1025	✓								✓		9			1	1	1	2	1	1	2		
PW-11	08/14/13	1100	✓								✓		9			1	1	1	2	1	1	2		
PW-10A	08/14/13	1210	✓								✓		9			1	1	1	2	1	1	2		
RI-205	08/14/13	1300	✓								✓		9			1	1	1	2	1	1	2		
DZ ~~R FIELD BLANK~~																								
DZ ~~R~~ TRIP BLANK	07/29/13			✓							✓		4										4	TB13191

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZ-EDD

E-mail address: _____

8 Data Package Options (circle if required)
Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
Bottle Storage	7-30-13	0830	[illegible]	7-30	[illegible]
Mark Denlinger	7-31-13	[illegible]	[illegible]	08/06/13	0600
[illegible]	08/15/13	1130	[illegible] Denlinger	8/15/13	[illegible]

9

EDD Required? Yes No
If yes, format: EZ-EDD

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

For Eurofins Lancaster Laboratories use only
Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

COC # 331039

1 Client Information

Client: ENVIRONMENTAL ALLIANCE
Acct. #:
Project Name/#: FORMER BAE/1863
PWSID #:
Project Manager: Chris Thoeny/Chris Hine
P.O. #: 6794
Sampler: Derek Zak
Quote #:
Name of state where samples were collected: PA

2 Sample Identification / 3 Collected / 4 Matrix / 5 Analysis Requested

Preservation Codes: A

Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	4 Soil	4 Sediment	4 Water: Potable	4 Water: Ground	4 Water: NPDES	4 Water: Surface	4 Other:	Total # of Containers	VOC's 8260 STD matrix
PW-5 DUP	08/12/13	0915	✓					✓				3	X
FOXMW-5	08/12/13	1320	✓					✓				3	X
A-8	08/13/13	1000	✓					✓				3	X
A-9	08/13/13	1025	✓					✓				3	X
A-2	08/13/13	1105	✓					✓				3	X
W-4	08/13/13	1205	✓					✓				3	X
RW-55	08/13/13	1300	✓					✓				3	X
RI-31	08/13/13	1345	✓					✓				3	X
~~[illegible]~~ DZ	~~08/14/13~~	~~1315~~	~~✓~~	DZ				~~✓~~				~~3~~	~~X~~ DZ
~~Relinquished [illegible]~~ DZ	~~08/14/13~~	~~1400~~	~~✓~~					~~✓~~				~~3~~	~~X~~ DZ

For Lab Use Only
FSC: _____
SCR#: _____

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

6 Remarks

7 Turnaround Time (TAT) Requested (please circle)

Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: FZ-EDD

E-mail address: _____

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
Derek Zak	08/15/13	1130	Mark Deininger	8/15/13	1222

EDD Required? Yes No
If yes, format: FZ-EDD

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

For Eurofins Lancaster Laboratories use only
Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

COC #331038

1 Client Information

Client: ENVIRONMENTAL ALLIANCE	Acct. #:
Project Name/#: FORMER BAE / 1863	PWSID #:
Project Manager: Chris Thoeny / Chris Hinz	P.O. #: 6799
Sampler: DEREK ZAK	Quote #:
Name of state where samples were collected: PA	

4 Matrix

Sediment ☐ Soil ☐ Ground ☒ Potable ☐ Surface ☐ NPDES ☐ Water ✓ Other: ____

5 Analysis Requested

Preservation Codes: H

2 Sample Identification / 3

Sample Identification	Collected Date	Collected Time	Grab	Composite	Total # of Containers	VOCs 8260 STP, Tracer, MAS
PW-8B	08/09/13	1010	✓		3	X
PW-13	08/09/13	1125	✓		3	X
PW-6A	08/12/13	0815	✓		3	X
PW-4	08/12/13	0900	✓		3	X
PW-5	08/12/13	0915	✓		3	X
Recovery Well	08/12/13	1020	✓		3	X
PW-1	08/12/13	1005	✓		3	X
RW-4S	08/12/13	1120	✓		3	X
PW-3	08/12/13	1210	✓		3	X
PW-2	08/12/13	1220	✓		3	X

For Lab Use Only
FSC: _____
SCR#: _____

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

6 Remarks

7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZ-EDD

E-mail address: _____

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	08/15/13	1130	[signature]	8/15/13	1227

EDD Required? Yes No
If yes, format: EZ-EDD

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

For Eurofins Lancaster Laboratories use only
Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

COC #331037

1 Client Information

Client: ENVIRONMENTAL ALLIANCE
Acct. #:
Project Name/#: FORMER BAE/1863
PWSID #:
Project Manager: Chris Thoeny / Chris Hine
P.O. #: 6799
Sampler: DZ Derek Zay/JS
Quote #:
Name of state where samples were collected: PA

4 Matrix: Sediment ☐ Soil ☐ Water: Ground ☒ Potable ☐ Surface ☐ NPDES ☐ Other: ____

5 Analysis Requested — Preservation Codes: H

For Lab Use Only
FSC: _____
SCR#: _____

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Total # of Containers	VOC's 8260 STD Notes, mod H	Remarks
~~[illegible]~~ DZ PW-14	08/08/13	1300	✓		3	X	
~~[illegible]~~ DZ PW-12	08/08/13	1440	✓		3	X	
A-11	08/08/13	1250	✓		3	X	B11 JS
A-4	08/08/13	1315	✓		3	X	B11 JS
A-5	08/08/13	1345	✓		3	X	By JS
~~A-7~~ DZ A-6	08/08/13	1415	✓		3	X	By JS
A-7	08/08/13	1435	✓		3	X	By JS
W-3	08/09/13	0820	✓		3	X	
W-8	08/09/13	0900	✓		3	X	
PW-10B	08/09/13	0940	✓		3	X	

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZ-EDD

E-mail address: _____

8 Data Package Options (circle if required)
Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
[signature]	08/15/13	1130	[signature]	8/15/13	1222

9

EDD Required? Yes No
If yes, format: EZ-EDD

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

CHAIN-OF-CUSTODY RECORD

VAPORTECH Services, Inc.

Vaportech Services, Inc.
1158 Pittsburgh Road, Suite 201
Valencia, PA 16059
Phone: (724) 898-2622 Fax: (724) 898-2633
www.vaportechservices.com

Company Name: ENVIRONMENTAL ALLIANCE
Address: 5341 LIMESTONE Rd.
City: WILMINGTON **State:** DE **Zip:** 19808
Proj. Manager: CHRIS THOENY / Chris Hine
Proj. Name: FORMER BAE
Proj. Number: 1863
Phone #: 302-234-4400 **Fax #:**

Sampler's signature:

Purchase Order # 6842

Analysis Options: Enter letters in Requested Analysis columns below.

A	Light Hydrocarbons	F	BTEX
B	Permanent Gases	G	Unleaded Gasoline List
C	Methane	H	TPH (Specify range below)
D	Methane, Ethane, Ethylene Ethene	I	Chlorinated Hydrocarbons
E	Hydrogen	J	624 Compound List

Light Hydrocarbons: Methane, Ethylene, Propane, Propylene, iso-Butane, n-Butane
Permanent Gases: Carbon Dioxide, Oxygen, Nitrogen, Methane, Carbon Monoxide
BTEX: Benzene, Toluene, Ethyl Benzene, m & p -Xylene, o-Xylene
Unleaded Gasoline list: BTEX, MTBE, Cumene, Naphthalene
TPH Ranges: C1-C4, C5-C10, C4-C12, C11-C18
Chlorinated HC: 1,1-DCE, 1,1-DCA, Methylene Chloride, trans-1,2-DCE, cis-1,2-DCE, Chloroform 1,1,1-TCA, Carbon Tetrachloride, Trichloroethylene (TCE), Tetrachloroethylene (PCE)

Collection Date	Time	Number of Containers	Sample Matrix	Sample Identification	Requested Analysis				(Other)	Remarks	Lab Use	
08/14/13	0835	2	GW	W-16	D							
	0930	2	GW	W-1	D							
	0940	2	GW	RW-1	D							
	1025	2	GW	PW-8A	D							
	1100	2	GW	PW-11	D							
	1210	2	GW	PW-10A	D							
	1300	2	GW	RI-20S	D							

Results to : Chris HINE **Email:** Chine@envalliance.com
Invoice to : Chris Hine **Email:** chine@envalliance.com

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	EAI	08/15/13	1500				
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Laboratory to return. YELLOW COPY: Submitter

SIREM Site Recovery & Management

Chain-of-Custody Form

130 Research Lane, Suite 2 Guelph, Ontario, Canada N1G 5G3 Phone (519) 822-2265 or toll free 1-866-251-1747 Fax (519) 822-3151
www.siremlab.com

Page ____ of ____

Lab #

Project Name	FORMER BAE 1863
Project #	1863
Project Manager	CHRIS THEANY / CHRIS HINE
Email Address	~~5341 LIMESTONE RD~~ CHINE@ENVIRALLIANCE.COM
Company	ENVIRONMENTAL ALLIANCE
Address	5341 LIMESTONE RD WILMINGTON DE, 19808
Phone #	302-234-4420
Fax #	
Sampler's Signature	
Sampler's Printed Name	DEREK ZAY

Analysis

Preservative Key
0. None
1. HCI
2. Other ____
3. Other ____

Customer Sample ID	Sampling Date	Sampling Time	Matrix	# of Containers	Gene-Trac Dhc	Gene-Trac VC	Gene-Trac Dhb	LACTATE	ACETATE	PROPIONATE	FORMATE	BUTYRATE	PYRUVATE			Other Information
								0	0	0	0	0	0			
W-16	08/14/13	0835	GW	2				X	X	X	X	X	X			VFA analysis
W-1		0930	GW	2				X	X	X	X	X	X			
RW-1		0945	GW	2				X	X	X	X	X	X			
PW-8A		1025	GW	2				X	X	X	X	X	X			
PW-11		1100	GW	2				X	X	X	X	X	X			
PW-10A		1210	GW	2				X	X	X	X	X	X			
RJ-205		1300	GW	2				X	X	X	X	X	X			

Sample Receipt

Cooler Condition:

Cooler Temperature:

Custody Seals: Yes ☐ No ☐

Billing Information

P.O. # 6843

Bill To: EAI Chris Hine

Turnaround Time Requested

Normal ☒

Rush ☐

For Lab Use Only

Proposal #: ____

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: DEREK ZAY	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm: EAI	Firm	Firm	Firm	Firm	Firm
Date/Time: 8/15/13 1500	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

Return to Originator: Yellow - Lab Copy: Pink - Retained by Client

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

November 30, 2012

Project: 1863/ BAE - Lansdale, PA

Submittal Date: 11/21/2012
Group Number: 1351066
SDG: BAE28
PO Number: 1863
State of Sample Origin: PA

Client Sample Description	Lancaster Labs (LLI) #
RI-19S1116120815 Grab Water	6870109
RI-19D1116120855 Grab Water	6870110
W-101116120925 Grab Water	6870111
W-121116120945 Grab Water	6870112
W-141116121005 Grab Water	6870113
W-161116121055 Grab Water	6870114
PW-141116121225 Grab Water	6870115
PW-121116121325 Grab Water	6870116
W-31117120845 Grab Water	6870117
PW-10B1117120920 Grab Water	6870118
PW-131119121010 Grab Water	6870119
Recovery_Well1119121050 Grab Water	6870120
RW-11119121100 Grab Water	6870121
PW-8B1119121215 Grab Water	6870122
PW-11119121310 Grab Water	6870123
W-11119121355 Grab Water	6870124
PW-8A1119121425 Grab Water	6870125
PW-111119121515 Grab Water	6870126
PW-21120120835 Grab Water	6870127
Fox_MW-51120120930 Grab Water	6870128

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Environmental Alliance, Inc.	Attn: Myrna Klair
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Megan A. Moeller
Senior Specialist

(717) 556-7261

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Analysis Report

Sample Description: RI-19S1116120815 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870109
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/16/2012 08:15 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RI19S SDG#: BAE28-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acrolein	107-02-8	N.D.	40	1
10903	Acrylonitrile	107-13-1	N.D.	4	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	1	1
10903	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	N.D.	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	N123322AA	11/27/2012 23:53	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N123322AA	11/27/2012 23:53	Brett W Kenyon	1

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Analysis Report

Sample Description: RI-19D1116120855 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870110
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/16/2012 08:55 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RI19D SDG#: BAE28-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acrolein	107-02-8	N.D.	40	1
10903	Acrylonitrile	107-13-1	N.D.	4	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	1	1
10903	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	N.D.	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	N123322AA	11/28/2012 00:16	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N123322AA	11/28/2012 00:16	Brett W Kenyon	1

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Analysis Report

Sample Description: W-101116120925 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870111
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/16/2012 09:25 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W10-- SDG#: BAE28-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acrolein	107-02-8	N.D.	40	1
10903	Acrylonitrile	107-13-1	N.D.	4	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	1	1
10903	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	N.D.	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	N123322AA	11/28/2012 00:39	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N123322AA	11/28/2012 00:39	Brett W Kenyon	1

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Analysis Report

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Sample Description: W-121116120945 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870112
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/16/2012 09:45 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W12-- SDG#: BAE28-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acrolein	107-02-8	N.D.	40	1
10903	Acrylonitrile	107-13-1	N.D.	4	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	1	1
10903	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	N.D.	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	N123322AA	11/28/2012 01:02	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N123322AA	11/28/2012 01:02	Brett W Kenyon	1

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Analysis Report

Sample Description: W-141116121005 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870113
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/16/2012 10:05 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W14-- SDG#: BAE28-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acrolein	107-02-8	N.D.	40	1
10903	Acrylonitrile	107-13-1	N.D.	4	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	1	1
10903	1,1-Dichloroethene	75-35-4	10	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroethane	71-55-6	11	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	8	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	N123322AA	11/28/2012 01:25	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N123322AA	11/28/2012 01:25	Brett W Kenyon	1

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Analysis Report

Sample Description: W-161116121055 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870114
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/16/2012 10:55 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W16-- SDG#: BAE28-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acrolein	107-02-8	N.D.	40	1
10903	Acrylonitrile	107-13-1	N.D.	4	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	1	1
10903	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	N.D.	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	N.D.	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Analysis Report

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Sample Description: W-161116121055 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870114
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/16/2012 10:55 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W16-- SDG#: BAE28-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	N123322AA	11/28/2012 01:49	Brett W Kenyon	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E123331AA	11/28/2012 14:38	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N123322AA	11/28/2012 01:49	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E123331AA	11/28/2012 14:38	Jason M Long	1

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Analysis Report

Sample Description: PW-141116121225 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870115
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/16/2012 12:25 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW14- SDG#: BAE28-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acrolein	107-02-8	N.D.	40	1
10903	Acrylonitrile	107-13-1	N.D.	4	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	1	1
10903	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	0.9 J	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	1 J	0.8	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	14	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	N123322AA	11/28/2012 02:11	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N123322AA	11/28/2012 02:11	Brett W Kenyon	1

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Analysis Report

Sample Description: PW-121116121325 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870116
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/16/2012 13:25 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW12- SDG#: BAE28-08

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10903	Acrolein	107-02-8	N.D.		40	1
10903	Acrylonitrile	107-13-1	N.D.		4	1
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Bromodichloromethane	75-27-4	N.D.		1	1
10903	Bromoform	75-25-2	N.D.		1	1
10903	Bromomethane	74-83-9	N.D.		1	1
10903	Carbon Tetrachloride	56-23-5	N.D.		1	1
10903	Chlorobenzene	108-90-7	N.D.		0.8	1
10903	Chloroethane	75-00-3	N.D.		1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10903	Chloroform	67-66-3	N.D.		0.8	1
10903	Chloromethane	74-87-3	N.D.		1	1
10903	Dibromochloromethane	124-48-1	N.D.		1	1
10903	1,1-Dichloroethane	75-34-3	N.D.		1	1
10903	1,2-Dichloroethane	107-06-2	N.D.		1	1
10903	1,1-Dichloroethene	75-35-4	1	J	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	0.9	J	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.		1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	Methylene Chloride	75-09-2	N.D.		2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10903	Tetrachloroethene	127-18-4	N.D.		0.8	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	1,1,1-Trichloroethane	71-55-6	2	J	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10903	Trichloroethene	79-01-6	11		1	1
10903	Trichlorofluoromethane	75-69-4	N.D.		2	1
10903	Vinyl Chloride	75-01-4	N.D.		1	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	N123322AA	11/28/2012 02:34	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N123322AA	11/28/2012 02:34	Brett W Kenyon	1

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Analysis Report

Sample Description: W-31117120845 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870117
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/17/2012 08:45 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W---3 SDG#: BAE28-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acrolein	107-02-8	N.D.	40	1
10903	Acrylonitrile	107-13-1	N.D.	4	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane	75-34-3	3 J	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	1	1
10903	1,1-Dichloroethene	75-35-4	0.9 J	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	40	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	11	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	N123322AA	11/28/2012 02:57	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N123322AA	11/28/2012 02:57	Brett W Kenyon	1

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Analysis Report

Sample Description: PW-10B1117120920 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870118
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/17/2012 09:20 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW10B SDG#: BAE28-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acrolein	107-02-8	N.D.	40	1
10903	Acrylonitrile	107-13-1	N.D.	4	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	1	1
10903	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	11	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	N123322AA	11/28/2012 03:20	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N123322AA	11/28/2012 03:20	Brett W Kenyon	1

Sample Description: PW-131119121010 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870119
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/19/2012 10:10 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW13- SDG#: BAE28-11

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10903	Acrolein	107-02-8	N.D.		40	1
10903	Acrylonitrile	107-13-1	N.D.		4	1
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Bromodichloromethane	75-27-4	N.D.		1	1
10903	Bromoform	75-25-2	N.D.		1	1
10903	Bromomethane	74-83-9	N.D.		1	1
10903	Carbon Tetrachloride	56-23-5	N.D.		1	1
10903	Chlorobenzene	108-90-7	N.D.		0.8	1
10903	Chloroethane	75-00-3	N.D.		1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10903	Chloroform	67-66-3	N.D.		0.8	1
10903	Chloromethane	74-87-3	N.D.		1	1
10903	Dibromochloromethane	124-48-1	N.D.		1	1
10903	1,1-Dichloroethane	75-34-3	N.D.		1	1
10903	1,2-Dichloroethane	107-06-2	N.D.		1	1
10903	1,1-Dichloroethene	75-35-4	N.D.		0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	2	J	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.		1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	Methylene Chloride	75-09-2	N.D.		2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10903	Tetrachloroethene	127-18-4	1	J	0.8	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	1,1,1-Trichloroethane	71-55-6	1	J	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10903	Trichloroethene	79-01-6	16		1	1
10903	Trichlorofluoromethane	75-69-4	N.D.		2	1
10903	Vinyl Chloride	75-01-4	N.D.		1	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	N123322AA	11/28/2012 03:43	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N123322AA	11/28/2012 03:43	Brett W Kenyon	1

Sample Description: Recovery_Well1119121050 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870120
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/19/2012 10:50 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RWELL SDG#: BAE28-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acrolein	107-02-8	N.D.	40	1
10903	Acrylonitrile	107-13-1	N.D.	4	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	1	1
10903	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	4 J	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	46	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	N123322AA	11/28/2012 04:06	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N123322AA	11/28/2012 04:06	Brett W Kenyon	1

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Analysis Report

Sample Description: RW-11119121100 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870121
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/19/2012 11:00 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RW1-- SDG#: BAE28-13

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10903	Acrolein	107-02-8	N.D.		40	1
10903	Acrylonitrile	107-13-1	N.D.		4	1
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Bromodichloromethane	75-27-4	N.D.		1	1
10903	Bromoform	75-25-2	N.D.		1	1
10903	Bromomethane	74-83-9	N.D.		1	1
10903	Carbon Tetrachloride	56-23-5	N.D.		1	1
10903	Chlorobenzene	108-90-7	N.D.		0.8	1
10903	Chloroethane	75-00-3	N.D.		1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10903	Chloroform	67-66-3	N.D.		0.8	1
10903	Chloromethane	74-87-3	N.D.		1	1
10903	Dibromochloromethane	124-48-1	N.D.		1	1
10903	1,1-Dichloroethane	75-34-3	N.D.		1	1
10903	1,2-Dichloroethane	107-06-2	N.D.		1	1
10903	1,1-Dichloroethene	75-35-4	2	J	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	3	J	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.		1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	Methylene Chloride	75-09-2	N.D.		2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10903	Tetrachloroethene	127-18-4	1	J	0.8	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	1,1,1-Trichloroethane	71-55-6	3	J	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10903	Trichloroethene	79-01-6	73		1	1
10903	Trichlorofluoromethane	75-69-4	N.D.		2	1
10903	Vinyl Chloride	75-01-4	N.D.		1	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	
06008	Vinyl Chloride	75-01-4	0.063		0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Analysis Report

Sample Description: RW-11119121100 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870121
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/19/2012 11:00 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RW1-- SDG#: BAE28-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	N123322AA	11/28/2012 04:29	Brett W Kenyon	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E123331AA	11/28/2012 14:58	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N123322AA	11/28/2012 04:29	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E123331AA	11/28/2012 14:58	Jason M Long	1

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Analysis Report

Sample Description: PW-8B1119121215 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870122
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/19/2012 12:15 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW8B- SDG#: BAE28-14

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10903	Acrolein	107-02-8	N.D.		40	1
10903	Acrylonitrile	107-13-1	N.D.		4	1
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Bromodichloromethane	75-27-4	N.D.		1	1
10903	Bromoform	75-25-2	N.D.		1	1
10903	Bromomethane	74-83-9	N.D.		1	1
10903	Carbon Tetrachloride	56-23-5	N.D.		1	1
10903	Chlorobenzene	108-90-7	N.D.		0.8	1
10903	Chloroethane	75-00-3	N.D.		1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10903	Chloroform	67-66-3	N.D.		0.8	1
10903	Chloromethane	74-87-3	N.D.		1	1
10903	Dibromochloromethane	124-48-1	N.D.		1	1
10903	1,1-Dichloroethane	75-34-3	N.D.		1	1
10903	1,2-Dichloroethane	107-06-2	N.D.		1	1
10903	1,1-Dichloroethene	75-35-4	2	J	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	1	J	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.		1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	Methylene Chloride	75-09-2	N.D.		2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10903	Tetrachloroethene	127-18-4	N.D.		0.8	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	1,1,1-Trichloroethane	71-55-6	1	J	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10903	Trichloroethene	79-01-6	11		1	1
10903	Trichlorofluoromethane	75-69-4	N.D.		2	1
10903	Vinyl Chloride	75-01-4	N.D.		1	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	N123322AA	11/28/2012 04:52	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N123322AA	11/28/2012 04:52	Brett W Kenyon	1

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Analysis Report

Sample Description: PW-11119121310 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870123
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/19/2012 13:10 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW11- SDG#: BAE28-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acrolein	107-02-8	N.D.	40	1
10903	Acrylonitrile	107-13-1	N.D.	4	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	1	1
10903	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	2 J	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	31	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	N123322AA	11/28/2012 05:15	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N123322AA	11/28/2012 05:15	Brett W Kenyon	1

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Analysis Report

Sample Description: W-11119121355 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870124
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/19/2012 13:55 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W---1 SDG#: BAE28-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acrolein	107-02-8	N.D.	40	1
10903	Acrylonitrile	107-13-1	N.D.	4	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	1	1
10903	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	12	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	47	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	0.11	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Analysis Report

Sample Description: W-11119121355 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870124
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/19/2012 13:55 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W---1 SDG#: BAE28-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	N123322AA	11/28/2012 05:37	Brett W Kenyon	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E123331AA	11/28/2012 15:17	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N123322AA	11/28/2012 05:37	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E123331AA	11/28/2012 15:17	Jason M Long	1

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Analysis Report

Sample Description: PW-8A1119121425 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870125
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/19/2012 14:25 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW8A- SDG#: BAE28-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acrolein	107-02-8	N.D.	40	1
10903	Acrylonitrile	107-13-1	N.D.	4	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	1	1
10903	1,1-Dichloroethene	75-35-4	10	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroethane	71-55-6	9	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	24	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	0.013 J	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Analysis Report

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Sample Description: PW-8A1119121425 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870125
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/19/2012 14:25 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW8A- SDG#: BAE28-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	N123322AA	11/28/2012 06:00	Brett W Kenyon	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E123331AA	11/28/2012 15:37	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N123322AA	11/28/2012 06:00	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E123331AA	11/28/2012 15:37	Jason M Long	1

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Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: PW-111119121515 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870126
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/19/2012 15:15 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-11 SDG#: BAE28-18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acrolein	107-02-8	N.D.	40	1
10903	Acrylonitrile	107-13-1	N.D.	4	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	1	1
10903	1,1-Dichloroethene	75-35-4	34	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	2 J	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	0.9 J	0.8	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroethane	71-55-6	6	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	60	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	0.035 J	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Analysis Report

Sample Description: PW-111119121515 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870126
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/19/2012 15:15 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-11 SDG#: BAE28-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	W123331AA	11/28/2012 08:50	Christopher G Torres	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E123331AA	11/28/2012 15:57	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W123331AA	11/28/2012 08:50	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E123331AA	11/28/2012 15:57	Jason M Long	1

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Analysis Report

Sample Description: PW-21120120835 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870127
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/20/2012 08:35 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW2-- SDG#: BAE28-19

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10903	Acrolein	107-02-8	N.D.		40	1
10903	Acrylonitrile	107-13-1	N.D.		4	1
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Bromodichloromethane	75-27-4	N.D.		1	1
10903	Bromoform	75-25-2	N.D.		1	1
10903	Bromomethane	74-83-9	N.D.		1	1
10903	Carbon Tetrachloride	56-23-5	N.D.		1	1
10903	Chlorobenzene	108-90-7	N.D.		0.8	1
10903	Chloroethane	75-00-3	N.D.		1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10903	Chloroform	67-66-3	N.D.		0.8	1
10903	Chloromethane	74-87-3	N.D.		1	1
10903	Dibromochloromethane	124-48-1	N.D.		1	1
10903	1,1-Dichloroethane	75-34-3	N.D.		1	1
10903	1,2-Dichloroethane	107-06-2	N.D.		1	1
10903	1,1-Dichloroethene	75-35-4	2	J	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	4	J	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.		1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	Methylene Chloride	75-09-2	N.D.		2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10903	Tetrachloroethene	127-18-4	3	J	0.8	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	1,1,1-Trichloroethane	71-55-6	9		0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10903	Trichloroethene	79-01-6	100		1	1
10903	Trichlorofluoromethane	75-69-4	N.D.		2	1
10903	Vinyl Chloride	75-01-4	N.D.		1	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	W123331AA	11/28/2012 09:14	Christopher G Torres	1

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Analysis Report

Sample Description: PW-21120120835 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870127
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/20/2012 08:35 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW2-- SDG#: BAE28-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W123331AA	11/28/2012 09:14	Christopher G Torres	1

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Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: Fox_MW-51120120930 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870128
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/20/2012 09:30 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

FOX-5 SDG#: BAE28-20*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acrolein	107-02-8	N.D.	40	1
10903	Acrylonitrile	107-13-1	N.D.	4	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	1	1
10903	1,1-Dichloroethene	75-35-4	11	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	2 J	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	2 J	0.8	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroethane	71-55-6	9	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	93	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	W123331AA	11/28/2012 09:38	Christopher G Torres	1

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Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: Fox_MW-51120120930 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870128
LLI Group # 1351066
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/20/2012 09:30 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 12:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

FOX-5 SDG#: BAE28-20*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W123331AA	11/28/2012 09:38	Christopher G Torres	1

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Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1351066
Reported: 11/30/12 at 12:59 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: E123331AA	Sample number(s): 6870114,6870121,6870124-6870126							
Vinyl Chloride	N.D.	0.010	ug/l	75	75	70-130	0	30
Batch number: N123322AA	Sample number(s): 6870109-6870125							
Acrolein	N.D.	40.	ug/l	100	99	30-171	1	30
Acrylonitrile	N.D.	4.	ug/l	91	92	61-130	0	30
Benzene	N.D.	0.5	ug/l	96	98	77-121	2	30
Bromodichloromethane	N.D.	1.	ug/l	85	86	73-120	1	30
Bromoform	N.D.	1.	ug/l	85	85	61-120	1	30
Bromomethane	N.D.	1.	ug/l	79	79	44-120	0	30
Carbon Tetrachloride	N.D.	1.	ug/l	89	90	67-122	1	30
Chlorobenzene	N.D.	0.8	ug/l	96	97	80-120	1	30
Chloroethane	N.D.	1.	ug/l	89	86	49-129	4	30
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	92	94	29-151	1	30
Chloroform	N.D.	0.8	ug/l	89	90	77-122	1	30
Chloromethane	N.D.	1.	ug/l	81	81	60-129	0	30
Dibromochloromethane	N.D.	1.	ug/l	89	90	72-120	2	30
1,1-Dichloroethane	N.D.	1.	ug/l	93	95	79-120	2	30
1,2-Dichloroethane	N.D.	1.	ug/l	94	94	64-130	0	30
1,1-Dichloroethene	N.D.	0.8	ug/l	94	97	76-124	2	30
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	96	98	80-120	2	30
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	94	96	80-120	2	30
1,2-Dichloropropane	N.D.	1.	ug/l	96	98	80-120	2	30
cis-1,3-Dichloropropene	N.D.	1.	ug/l	100	101	78-120	2	30
trans-1,3-Dichloropropene	N.D.	1.	ug/l	83	84	73-120	2	30
Ethylbenzene	N.D.	0.8	ug/l	97	99	79-120	2	30
Methylene Chloride	N.D.	2.	ug/l	91	92	84-118	1	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	99	100	75-123	0	30
Tetrachloroethene	N.D.	0.8	ug/l	97	100	79-120	2	30
Toluene	N.D.	0.7	ug/l	96	97	79-120	2	30
1,1,1-Trichloroethane	N.D.	0.8	ug/l	90	92	66-126	2	30
1,1,2-Trichloroethane	N.D.	0.8	ug/l	96	98	80-120	2	30
Trichloroethene	N.D.	1.	ug/l	93	97	80-120	4	30
Trichlorofluoromethane	N.D.	2.	ug/l	84	87	65-130	3	30
Vinyl Chloride	N.D.	1.	ug/l	80	83	56-123	3	30
Xylene (Total)	N.D.	0.8	ug/l	97	99	77-120	2	30
Batch number: W123331AA	Sample number(s): 6870126-6870128							
Acrolein	N.D.	40.	ug/l	105	111	30-171	5	30
Acrylonitrile	N.D.	4.	ug/l	97	98	61-130	1	30
Benzene	N.D.	0.5	ug/l	105	108	77-121	2	30
Bromodichloromethane	N.D.	1.	ug/l	86	87	73-120	1	30
Bromoform	N.D.	1.	ug/l	68	70	61-120	3	30
Bromomethane	N.D.	1.	ug/l	66	66	44-120	0	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1351066
Reported: 11/30/12 at 12:59 PM

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Carbon Tetrachloride	N.D.	1.	ug/l	75	73	67-122	2	30
Chlorobenzene	N.D.	0.8	ug/l	99	103	80-120	4	30
Chloroethane	N.D.	1.	ug/l	75	77	49-129	2	30
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	59	63	29-151	8	30
Chloroform	N.D.	0.8	ug/l	88	90	77-122	3	30
Chloromethane	N.D.	1.	ug/l	89	86	60-129	3	30
Dibromochloromethane	N.D.	1.	ug/l	83	87	72-120	5	30
1,1-Dichloroethane	N.D.	1.	ug/l	100	103	79-120	3	30
1,2-Dichloroethane	N.D.	1.	ug/l	86	89	64-130	3	30
1,1-Dichloroethene	N.D.	0.8	ug/l	100	98	76-124	3	30
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	100	102	80-120	2	30
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	98	99	80-120	1	30
1,2-Dichloropropane	N.D.	1.	ug/l	102	106	80-120	4	30
cis-1,3-Dichloropropene	N.D.	1.	ug/l	95	99	78-120	5	30
trans-1,3-Dichloropropene	N.D.	1.	ug/l	86	90	73-120	5	30
Ethylbenzene	N.D.	0.8	ug/l	99	103	79-120	4	30
Methylene Chloride	N.D.	2.	ug/l	99	101	84-118	2	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	117	118	75-123	1	30
Tetrachloroethene	N.D.	0.8	ug/l	92	94	79-120	2	30
Toluene	N.D.	0.7	ug/l	104	109	79-120	5	30
1,1,1-Trichloroethane	N.D.	0.8	ug/l	77	75	66-126	3	30
1,1,2-Trichloroethane	N.D.	0.8	ug/l	101	106	80-120	4	30
Trichloroethene	N.D.	1.	ug/l	99	100	80-120	2	30
Trichlorofluoromethane	N.D.	2.	ug/l	82	74	65-130	11	30
Vinyl Chloride	N.D.	1.	ug/l	94	91	56-123	3	30
Xylene (Total)	N.D.	0.8	ug/l	98	103	77-120	4	30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Waters by SIMS 8260B
Batch number: E123331AA

	Dibromofluoromethane
6870114	107
6870121	106
6870124	104
6870125	105
6870126	107
Blank	104
LCS	106
LCSD	105
Limits:	80-120

Analysis Name: 8260 Std. Water Master
Batch number: N123322AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1351066
Reported: 11/30/12 at 12:59 PM

Surrogate Quality Control

6870109	98	101	98	95
6870110	98	99	98	94
6870111	97	100	97	95
6870112	97	98	98	95
6870113	97	100	97	95
6870114	96	100	98	94
6870115	97	100	98	95
6870116	97	100	98	95
6870117	97	101	98	95
6870118	97	100	98	95
6870119	96	99	99	95
6870120	95	97	98	94
6870121	98	100	98	95
6870122	97	101	98	96
6870123	97	100	98	95
6870124	98	100	98	95
6870125	97	99	99	96
Blank	97	100	98	95
LCS	98	99	99	98
LCSD	97	99	100	97
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 Std. Water Master
Batch number: W123331AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6870126	87	98	101	92
6870127	87	100	100	93
6870128	86	98	100	93
Blank	85	98	100	94
LCS	87	99	102	99
LCSD	86	95	103	99
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

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For Eurofins Lancaster Laboratories use only
Acct. # 7039 Group # 1351066 Sample # 6870109-28
Instructions on reverse side correspond with circled numbers.

COC # 315574

1 Client Information

Client: Environmental Alliance	Acct. #:
Project Name/#: Former BAE/1863	PWSID #:
Project Manager: JASON EARLY	P.O. #:
Sampler: Derek Zak	Quote #:
Name of state where samples were collected: PA	

4 Matrix: Soil ☐ Sediment ☐ Water: Potable ☐ Ground ☐ NPDES ☐ Surface ☐ Other: ____

5 Analysis Requested — Preservation Codes

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Other	Total # of Containers	Voc's via 8260 (H)	SIM method 8260B (H)
RI-19S	11/16/12	0815	✓			✓		3	✓	
RI-19D	11/16/12	0855	✓			✓		3	✓	
W-10	11/16/12	0925	✓			✓		3	✓	
W-12	11/16/12	0945	✓			✓		3	✓	
W-14	11/16/12	1005	✓			✓		3	✓	
W-16	11/16/12	1055	✓			✓		6	✓	✓
PW-14	11/16/12	1225	✓			✓		3	✓	DZ
PW-12	11/16/12	1325	✓			✓		3	✓	DZ
W-3	11/17/12	0845	✓			✓		3	✓	
PW-10B	11/17/12	0920	✓			✓		3	✓	

For Lab Use Only
FSC: ____
SCR#: ____

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

6 Remarks

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZ-EDD

E-mail address: ____

8 Data Package Options (circle if required)
Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	11/21/12	0900	[signature]	11/21/12	0915
[signature]	11/21/12	1720			
			[signature]	11/21/12	1720

EDD Required? Yes No
If yes, format: ____

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS ____ FedEx ____ Other ____

Temperature upon receipt 0.5-0.7°C

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Issued by Dept. 40 Management
7044.02

Environmental Analysis Request/Chain of Custody

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Acct. # 7039 For Eurofins Lancaster Laboratories use only Group # 1351066 Sample # 6870109-28
Instructions on reverse side correspond with circled numbers.

COC # 315573

1 Client Information

Client: Environmental Alliance
Acct. #:
Project Name/#: Former BAE/1863
PWSID #:
Project Manager: JASON EARLY
P.O. #:
Sampler: Derek ZAY
Quote #:
Name of state where samples were collected: PA

4 Matrix: Soil ☐ Sediment ☐ Water: Ground ☐ Potable ☐ Surface ☐ NPDES ☐ Other: ____

5 Analysis Requested — Preservation Codes

For Lab Use Only
FSC:
SCR#:

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Total # of Containers	VOCs via 8260	SIM Method 8260B
PW-13	11/19/12	1010	✓		3	✓	
Recovery Well	11/19/12	1050	✓		3	✓	
RW-1	11/19/12	1100	✓		6	✓	✓
PW-8B	11/19/12	1215	✓		3	✓	
PW-1	11/19/12	1310	✓		3	✓	
W-1	11/19/12	1355	✓		6	✓	✓
PW-8A	11/19/12	1425	✓		6	✓	✓
PW-11	11/19/12	1515	✓		6	✓	✓
PW-2	11/20/12	0835	✓		3	✓	
Fox MW-5	11/20/12	0930	✓		3	✓	

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZ-EDD

E-mail address:

8 Data Package Options (circle if required)
Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
[signature]	11/21/12	0900	[signature]	11/21/12	0915
[signature]	11/21/12	1720			
			[signature]	11/21/12	1720

EDD Required? Yes No
If yes, format:
Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS ____ FedEx ____ Other ____
Temperature upon receipt 0.5°-0.7°C

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:	Prepared for:
Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425	Environmental Alliance, Inc. 5341 Limestone Rd Wilmington DE 19808

November 30, 2012

Project: 1863/ BAE - Lansdale, PA

Submittal Date: 11/21/2012
Group Number: 1351067
SDG: BAE29
PO Number: 1863
State of Sample Origin: PA

Client Sample Description	Lancaster Labs (LLI) #
Fox_MW-5_DUP1120120930 Grab Water	6870129
PW-10A1120121000 Grab Water	6870130
RI-20S1120121035 Grab Water	6870131
W-41120121125 Grab Water	6870132
PW-9A1120121205 Grab Water	6870133
PW-9B1120121255 Grab Water	6870134
FIELD_BLANK1120121400 Grab Water	6870135
RINSATE_BLANK1120121415 Grab Water	6870136

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Environmental Alliance, Inc.	Attn: Myrna Klair
1 COPY TO	Data Package Group	

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Respectfully Submitted,

Megan A. Moeller
Senior Specialist

(717) 556-7261

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Analysis Report

Sample Description: Fox_MW-5_DUP1120120930 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870129
LLI Group # 1351067
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/20/2012 09:30 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 13:04

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

MW5FD SDG#: BAE29-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acrolein	107-02-8	N.D.	40	1
10903	Acrylonitrile	107-13-1	N.D.	4	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	1	1
10903	1,1-Dichloroethene	75-35-4	11	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	2 J	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	2 J	0.8	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroethane	71-55-6	10	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	92	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	W123331AA	11/28/2012 10:03	Christopher G Torres	1

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Analysis Report

Sample Description: Fox_MW-5_DUP1120120930 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870129
LLI Group # 1351067
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/20/2012 09:30 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 13:04

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

MW5FD SDG#: BAE29-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W123331AA	11/28/2012 10:03	Christopher G Torres	1

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Analysis Report

Sample Description: PW-10A1120121000 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870130
LLI Group # 1351067
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/20/2012 10:00 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 13:04

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW10A SDG#: BAE29-02

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10903	Acrolein	107-02-8	N.D.		40	1
10903	Acrylonitrile	107-13-1	N.D.		4	1
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Bromodichloromethane	75-27-4	N.D.		1	1
10903	Bromoform	75-25-2	N.D.		1	1
10903	Bromomethane	74-83-9	N.D.		1	1
10903	Carbon Tetrachloride	56-23-5	N.D.		1	1
10903	Chlorobenzene	108-90-7	N.D.		0.8	1
10903	Chloroethane	75-00-3	N.D.		1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10903	Chloroform	67-66-3	N.D.		0.8	1
10903	Chloromethane	74-87-3	N.D.		1	1
10903	Dibromochloromethane	124-48-1	N.D.		1	1
10903	1,1-Dichloroethane	75-34-3	5	J	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.		1	1
10903	1,1-Dichloroethene	75-35-4	41		0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	4	J	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.		1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	Methylene Chloride	75-09-2	N.D.		2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10903	Tetrachloroethene	127-18-4	2	J	0.8	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	1,1,1-Trichloroethane	71-55-6	7		0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10903	Trichloroethene	79-01-6	120		1	1
10903	Trichlorofluoromethane	75-69-4	N.D.		2	1
10903	Vinyl Chloride	75-01-4	N.D.		1	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	
06008	Vinyl Chloride	75-01-4	0.089		0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Analysis Report

Sample Description: PW-10A1120121000 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870130
LLI Group # 1351067
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/20/2012 10:00 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 13:04

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW10A SDG#: BAE29-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	W123331AA	11/28/2012 10:26	Christopher G Torres	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E123331AA	11/28/2012 16:17	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W123331AA	11/28/2012 10:26	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E123331AA	11/28/2012 16:17	Jason M Long	1

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Analysis Report

Sample Description: RI-20S1120121035 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870131
LLI Group # 1351067
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/20/2012 10:35 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 13:04

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RI20S SDG#: BAE29-03

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10903	Acrolein	107-02-8	N.D.		40	1
10903	Acrylonitrile	107-13-1	N.D.		4	1
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Bromodichloromethane	75-27-4	N.D.		1	1
10903	Bromoform	75-25-2	N.D.		1	1
10903	Bromomethane	74-83-9	N.D.		1	1
10903	Carbon Tetrachloride	56-23-5	N.D.		1	1
10903	Chlorobenzene	108-90-7	N.D.		0.8	1
10903	Chloroethane	75-00-3	N.D.		1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10903	Chloroform	67-66-3	N.D.		0.8	1
10903	Chloromethane	74-87-3	N.D.		1	1
10903	Dibromochloromethane	124-48-1	N.D.		1	1
10903	1,1-Dichloroethane	75-34-3	3	J	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.		1	1
10903	1,1-Dichloroethene	75-35-4	54		0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	4	J	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.		1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	Methylene Chloride	75-09-2	N.D.		2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10903	Tetrachloroethene	127-18-4	3	J	0.8	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	1,1,1-Trichloroethane	71-55-6	10		0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10903	Trichloroethene	79-01-6	150		1	1
10903	Trichlorofluoromethane	75-69-4	N.D.		2	1
10903	Vinyl Chloride	75-01-4	N.D.		1	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	
06008	Vinyl Chloride	75-01-4	0.055		0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Analysis Report

Sample Description: RI-20S1120121035 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870131
LLI Group # 1351067
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/20/2012 10:35 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 13:04

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RI20S SDG#: BAE29-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	W123331AA	11/28/2012 10:50	Christopher G Torres	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E123331AA	11/28/2012 16:37	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W123331AA	11/28/2012 10:50	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E123331AA	11/28/2012 16:37	Jason M Long	1

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Analysis Report

Sample Description: W-41120121125 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870132
LLI Group # 1351067
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/20/2012 11:25 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 13:04

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W---4 SDG#: BAE29-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acrolein	107-02-8	N.D.	40	1
10903	Acrylonitrile	107-13-1	N.D.	4	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	1	1
10903	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	60	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	490	10	10
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	N123342AA	11/30/2012 02:13	Brett W Kenyon	1
10903	PPL 8260 Water	SW-846 8260B	1	N123342AA	11/30/2012 02:36	Brett W Kenyon	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N123342AA	11/30/2012 02:13	Brett W Kenyon	1

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Analysis Report

Sample Description: W-41120121125 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870132
LLI Group # 1351067
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/20/2012 11:25 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 13:04

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W---4 SDG#: BAE29-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	2	N123342AA	11/30/2012 02:36	Brett W Kenyon	10

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Analysis Report

Sample Description: PW-9A1120121205 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870133
LLI Group # 1351067
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/20/2012 12:05 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 13:04

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-9A SDG#: BAE29-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acrolein	107-02-8	N.D.	40	1
10903	Acrylonitrile	107-13-1	N.D.	4	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	1	1
10903	1,1-Dichloroethene	75-35-4	20	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	2 J	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	14	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	0.050	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Analysis Report

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Sample Description: PW-9A1120121205 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870133
LLI Group # 1351067
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/20/2012 12:05 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 13:04

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-9A SDG#: BAE29-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	N123342AA	11/30/2012 02:59	Brett W Kenyon	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E123331AA	11/28/2012 16:57	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E123331AA	11/28/2012 16:57	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	N123342AA	11/30/2012 02:59	Brett W Kenyon	1

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Analysis Report

Sample Description: PW-9B1120121255 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870134
LLI Group # 1351067
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/20/2012 12:55 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 13:04

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-9B SDG#: BAE29-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acrolein	107-02-8	N.D.	40	1
10903	Acrylonitrile	107-13-1	N.D.	4	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane	75-34-3	1 J	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	1	1
10903	1,1-Dichloroethene	75-35-4	68	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	12	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroethane	71-55-6	3 J	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	44	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	0.072	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: PW-9B1120121255 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870134
LLI Group # 1351067
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/20/2012 12:55 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 13:04

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-9B SDG#: BAE29-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	N123342AA	11/30/2012 03:22	Brett W Kenyon	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E123331AA	11/28/2012 17:17	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E123331AA	11/28/2012 17:17	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	N123342AA	11/30/2012 03:22	Brett W Kenyon	1

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Analysis Report

Sample Description: FIELD_BLANK1120121400 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870135
LLI Group # 1351067
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/20/2012 14:00 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 13:04

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

FLD-B SDG#: BAE29-07FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acrolein	107-02-8	N.D.	40	1
10903	Acrylonitrile	107-13-1	N.D.	4	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	1	1
10903	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	N.D.	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	N.D.	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: FIELD_BLANK1120121400 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870135
LLI Group # 1351067
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/20/2012 14:00 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 13:04

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

FLD-B SDG#: BAE29-07FB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	W123331AA	11/28/2012 12:50	Christopher G Torres	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E123331AA	11/28/2012 14:18	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W123331AA	11/28/2012 12:50	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E123331AA	11/28/2012 14:18	Jason M Long	1

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Analysis Report

Sample Description: RINSATE_BLANK1120121415 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870136
LLI Group # 1351067
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/20/2012 14:15 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 13:04

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RIN-B SDG#: BAE29-08RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acrolein	107-02-8	N.D.	40	1
10903	Acrylonitrile	107-13-1	N.D.	4	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	1	1
10903	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	N.D.	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	W123331AA	11/28/2012 13:14	Christopher G Torres	1

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Analysis Report

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Sample Description: RINSATE_BLANK1120121415 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6870136
LLI Group # 1351067
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/20/2012 14:15 by DZ

Submitted: 11/21/2012 17:20
Reported: 11/30/2012 13:04

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RIN-B SDG#: BAE29-08RB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W123331AA	11/28/2012 13:14	Christopher G Torres	1

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1351067
Reported: 11/30/12 at 01:04 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: E123331AA	Sample number(s): 6870130-6870131,6870133-6870135							
Vinyl Chloride	N.D.	0.010	ug/l	75	75	70-130	0	30
Batch number: N123342AA	Sample number(s): 6870132-6870134							
Acrolein	N.D.	40.	ug/l	104		30-171		
Acrylonitrile	N.D.	4.	ug/l	91		61-130		
Benzene	N.D.	0.5	ug/l	95		77-121		
Bromodichloromethane	N.D.	1.	ug/l	84		73-120		
Bromoform	N.D.	1.	ug/l	83		61-120		
Bromomethane	N.D.	1.	ug/l	81		44-120		
Carbon Tetrachloride	N.D.	1.	ug/l	86		67-122		
Chlorobenzene	N.D.	0.8	ug/l	95		80-120		
Chloroethane	N.D.	1.	ug/l	84		49-129		
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	91		29-151		
Chloroform	N.D.	0.8	ug/l	87		77-122		
Chloromethane	N.D.	1.	ug/l	88		60-129		
Dibromochloromethane	N.D.	1.	ug/l	88		72-120		
1,1-Dichloroethane	N.D.	1.	ug/l	93		79-120		
1,2-Dichloroethane	N.D.	1.	ug/l	94		64-130		
1,1-Dichloroethene	N.D.	0.8	ug/l	95		76-124		
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	95		80-120		
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	92		80-120		
1,2-Dichloropropane	N.D.	1.	ug/l	95		80-120		
cis-1,3-Dichloropropene	N.D.	1.	ug/l	100		78-120		
trans-1,3-Dichloropropene	N.D.	1.	ug/l	83		73-120		
Ethylbenzene	N.D.	0.8	ug/l	97		79-120		
Methylene Chloride	N.D.	2.	ug/l	89		84-118		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	101		75-123		
Tetrachloroethene	N.D.	0.8	ug/l	97		79-120		
Toluene	N.D.	0.7	ug/l	95		79-120		
1,1,1-Trichloroethane	N.D.	0.8	ug/l	82		66-126		
1,1,2-Trichloroethane	N.D.	0.8	ug/l	96		80-120		
Trichloroethene	N.D.	1.	ug/l	93		80-120		
Trichlorofluoromethane	N.D.	2.	ug/l	87		65-130		
Vinyl Chloride	N.D.	1.	ug/l	85		56-123		
Xylene (Total)	N.D.	0.8	ug/l	97		77-120		
Batch number: W123331AA	Sample number(s): 6870129-6870131,6870135-6870136							
Acrolein	N.D.	40.	ug/l	105	111	30-171	5	30
Acrylonitrile	N.D.	4.	ug/l	97	98	61-130	1	30
Benzene	N.D.	0.5	ug/l	105	108	77-121	2	30
Bromodichloromethane	N.D.	1.	ug/l	86	87	73-120	1	30
Bromoform	N.D.	1.	ug/l	68	70	61-120	3	30
Bromomethane	N.D.	1.	ug/l	66	66	44-120	0	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1351067
Reported: 11/30/12 at 01:04 PM

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Carbon Tetrachloride	N.D.	1.	ug/l	75	73	67-122	2	30
Chlorobenzene	N.D.	0.8	ug/l	99	103	80-120	4	30
Chloroethane	N.D.	1.	ug/l	75	77	49-129	2	30
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	59	63	29-151	8	30
Chloroform	N.D.	0.8	ug/l	88	90	77-122	3	30
Chloromethane	N.D.	1.	ug/l	89	86	60-129	3	30
Dibromochloromethane	N.D.	1.	ug/l	83	87	72-120	5	30
1,1-Dichloroethane	N.D.	1.	ug/l	100	103	79-120	3	30
1,2-Dichloroethane	N.D.	1.	ug/l	86	89	64-130	3	30
1,1-Dichloroethene	N.D.	0.8	ug/l	100	98	76-124	3	30
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	100	102	80-120	2	30
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	98	99	80-120	1	30
1,2-Dichloropropane	N.D.	1.	ug/l	102	106	80-120	4	30
cis-1,3-Dichloropropene	N.D.	1.	ug/l	95	99	78-120	5	30
trans-1,3-Dichloropropene	N.D.	1.	ug/l	86	90	73-120	5	30
Ethylbenzene	N.D.	0.8	ug/l	99	103	79-120	4	30
Methylene Chloride	N.D.	2.	ug/l	99	101	84-118	2	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	117	118	75-123	1	30
Tetrachloroethene	N.D.	0.8	ug/l	92	94	79-120	2	30
Toluene	N.D.	0.7	ug/l	104	109	79-120	5	30
1,1,1-Trichloroethane	N.D.	0.8	ug/l	77	75	66-126	3	30
1,1,2-Trichloroethane	N.D.	0.8	ug/l	101	106	80-120	4	30
Trichloroethene	N.D.	1.	ug/l	99	100	80-120	2	30
Trichlorofluoromethane	N.D.	2.	ug/l	82	74	65-130	11	30
Vinyl Chloride	N.D.	1.	ug/l	94	91	56-123	3	30
Xylene (Total)	N.D.	0.8	ug/l	98	103	77-120	4	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: N123342AA	Sample number(s): 6870132-6870134 UNSPK: P870141								
Acrolein	100	95	33-147	5	30				
Acrylonitrile	91	92	43-146	0	30				
Benzene	97	97	72-134	1	30				
Bromodichloromethane	86	86	78-125	1	30				
Bromoform	84	84	48-118	0	30				
Bromomethane	77	81	47-129	5	30				
Carbon Tetrachloride	86	88	72-135	2	30				
Chlorobenzene	97	98	87-124	2	30				
Chloroethane	83	84	51-145	1	30				
2-Chloroethyl Vinyl Ether	95	95	10-151	0	30				
Chloroform	89	90	81-134	1	30				
Chloromethane	86	89	46-137	3	30				
Dibromochloromethane	88	89	74-116	1	30				
1,1-Dichloroethane	94	95	84-129	1	30				
1,2-Dichloroethane	95	96	68-131	2	30				
1,1-Dichloroethene	95	97	85-142	2	30				
cis-1,2-Dichloroethene	96	97	85-125	1	30				
trans-1,2-Dichloroethene	93	95	87-126	2	30				

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1351067
Reported: 11/30/12 at 01:04 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Dichloropropane	97	98	83-124	1	30				
cis-1,3-Dichloropropene	100	102	70-116	2	30				
trans-1,3-Dichloropropene	84	84	74-119	1	30				
Ethylbenzene	99	101	71-134	2	30				
Methylene Chloride	90	92	78-133	2	30				
1,1,2,2-Tetrachloroethane	102	101	72-128	1	30				
Tetrachloroethene	96	98	80-128	2	30				
Toluene	96	98	80-125	2	30				
1,1,1-Trichloroethane	83	85	69-140	2	30				
1,1,2-Trichloroethane	98	98	77-124	0	30				
Trichloroethene	95	96	88-133	1	30				
Trichlorofluoromethane	89	90	64-146	1	30				
Vinyl Chloride	85	87	66-133	2	30				
Xylene (Total)	98	100	79-125	1	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Waters by SIMS 8260B
Batch number: E123331AA

	Dibromofluoromethane
6870130	105
6870131	106
6870133	106
6870134	107
6870135	108
Blank	104
LCS	106
LCSD	105
Limits:	80-120

Analysis Name: 8260 Std. Water Master
Batch number: N123342AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6870132	96	100	99	95
6870133	96	100	98	94
6870134	97	101	98	94
Blank	96	100	98	95
LCS	97	99	100	97
MS	96	97	99	97
MSD	97	98	100	98
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1351067
Reported: 11/30/12 at 01:04 PM

Surrogate Quality Control

Analysis Name: 8260 Std. Water Master
Batch number: W123331AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6870129	86	98	101	92
6870130	87	98	100	91
6870131	87	99	100	91
6870135	87	98	101	93
6870136	86	98	100	93
Blank	85	98	100	94
LCS	87	99	102	99
LCSD	86	95	103	99
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

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Acct. # 7039 For Eurofins Lancaster Laboratories use only Group # 1351067 Sample # 6870129-36
Instructions on reverse side correspond with circled numbers.

COC #319103

1 Client Information

Client: Environmental Alliance
Acct. #:
Project Name/#: Former BAF/1863
PWSID #:
Project Manager: JASON EARLY
P.O. #:
Sampler: Derek ZAK
Quote #:
Name of state where samples were collected: PA

4 Matrix: Soil ☐ Sediment ☐ Water: Potable ☐ Ground ☐ NPDES ☐ Surface ☐ Other: ___

5 Analysis Requested — Preservation Codes: H, H

For Lab Use Only
FSC:
SCR#:

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Potable	Ground	NPDES	Surface	Other	Total # of Containers	VOC's via 8260	SIMS Method via 8260B	Remarks
FOX MW-5 DUP	11/20/12	0930	✓				✓				3	X	unk 11/20/12	
PW-10A	11/20/12	1000	✓				✓				6	✓	✓	
RJ-20S	11/20/12	1035	✓				✓				6	✓	✓	
W-4	11/20/12	1125	✓				✓				3	X	unk 11/20/12	
PW-9A	11/20/12	1205	✓				✓				6	✓	✓	
PW-9B	11/20/12	1255	✓				✓				6	✓	✓	
FIELD BLANK	11/20/12	1400	✓				✓				6	✓	✓	
RINSATE BLANK	11/20/12	1415	✓				✓				3	X	unk 11/20/12	

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZ-EDD

E-mail address:

8 Data Package Options (circle if required)
Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	11/21/12	0900	[signature]	11/21/12	0915
[signature]	11/21/12	1700			
			[signature]	11/21/12	1720

EDD Required? Yes No
If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS ____ FedEx ____ Other ____

Temperature upon receipt 0.5-0.7 °C

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The white copy should accompany samples to Eurofins Lancaster Laboratories. The yellow copy should be retained by the client.

Issued by Dept. 40 Management
7044.02

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:	Prepared for:
Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425	Environmental Alliance, Inc. 5341 Limestone Rd Wilmington DE 19808

December 11, 2012

Project: 1863/ BAE - Lansdale, PA

Submittal Date: 11/29/2012
Group Number: 1352581
SDG: BAE58
PO Number: 5412
State of Sample Origin: PA

Client Sample Description	Lancaster Labs (LLI) #
Trip_Blank110912 Water	6877010
W81128121140 Grab Water	6877011

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Environmental Alliance, Inc.	Attn: Myrna Klair
1 COPY TO	Data Package Group	

Respectfully Submitted,

Megan A. Moeller
Senior Specialist

(717) 556-7261

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Analysis Report

Sample Description: Trip_Blank110912 Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6877010
LLI Group # 1352581
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/09/2012

Submitted: 11/29/2012 17:30
Reported: 12/11/2012 14:10

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

TBBAE SDG#: BAE58-01TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acrolein	107-02-8	N.D.	40	1
10903	Acrylonitrile	107-13-1	N.D.	4	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	1	1
10903	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	N.D.	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	L123422AA	12/07/2012 23:34	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L123422AA	12/07/2012 23:34	Kevin A Sposito	1

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Analysis Report

Sample Description: W81128121140 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6877011
LLI Group # 1352581
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 11/28/2012 11:40 by DZ

Submitted: 11/29/2012 17:30
Reported: 12/11/2012 14:10

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W8--- SDG#: BAE58-02*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Acrolein	107-02-8	N.D.	40	1
10903	Acrylonitrile	107-13-1	N.D.	4	1
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Bromodichloromethane	75-27-4	N.D.	1	1
10903	Bromoform	75-25-2	N.D.	1	1
10903	Bromomethane	74-83-9	N.D.	1	1
10903	Carbon Tetrachloride	56-23-5	N.D.	1	1
10903	Chlorobenzene	108-90-7	N.D.	0.8	1
10903	Chloroethane	75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10903	Chloroform	67-66-3	N.D.	0.8	1
10903	Chloromethane	74-87-3	N.D.	1	1
10903	Dibromochloromethane	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane	75-34-3	N.D.	1	1
10903	1,2-Dichloroethane	107-06-2	N.D.	1	1
10903	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10903	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10903	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane	78-87-5	N.D.	1	1
10903	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methylene Chloride	75-09-2	N.D.	2	1
10903	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene	127-18-4	N.D.	0.8	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10903	Trichloroethene	79-01-6	8	1	1
10903	Trichlorofluoromethane	75-69-4	N.D.	2	1
10903	Vinyl Chloride	75-01-4	N.D.	1	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/13

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	PPL 8260 Water	SW-846 8260B	1	L123422AA	12/07/2012 22:50	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L123422AA	12/07/2012 22:50	Kevin A Sposito	1

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Analysis Report

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Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1352581
Reported: 12/11/12 at 02:10 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: L123422AA	Sample number(s): 6877010-6877011							
Acrolein	N.D.	40.	ug/l	88		30-171		
Acrylonitrile	N.D.	4.	ug/l	95		61-130		
Benzene	N.D.	0.5	ug/l	97		77-121		
Bromodichloromethane	N.D.	1.	ug/l	92		73-120		
Bromoform	N.D.	1.	ug/l	80		61-120		
Bromomethane	N.D.	1.	ug/l	83		44-120		
Carbon Tetrachloride	N.D.	1.	ug/l	98		67-122		
Chlorobenzene	N.D.	0.8	ug/l	92		80-120		
Chloroethane	N.D.	1.	ug/l	84		49-129		
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	90		29-151		
Chloroform	N.D.	0.8	ug/l	91		77-122		
Chloromethane	N.D.	1.	ug/l	84		60-129		
Dibromochloromethane	N.D.	1.	ug/l	86		72-120		
1,1-Dichloroethane	N.D.	1.	ug/l	96		79-120		
1,2-Dichloroethane	N.D.	1.	ug/l	95		64-130		
1,1-Dichloroethene	N.D.	0.8	ug/l	103		76-124		
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	98		80-120		
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	98		80-120		
1,2-Dichloropropane	N.D.	1.	ug/l	94		80-120		
cis-1,3-Dichloropropene	N.D.	1.	ug/l	99		78-120		
trans-1,3-Dichloropropene	N.D.	1.	ug/l	82		73-120		
Ethylbenzene	N.D.	0.8	ug/l	92		79-120		
Methylene Chloride	N.D.	2.	ug/l	98		84-118		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	86		75-123		
Tetrachloroethene	N.D.	0.8	ug/l	96		79-120		
Toluene	N.D.	0.7	ug/l	94		79-120		
1,1,1-Trichloroethane	N.D.	0.8	ug/l	86		66-126		
1,1,2-Trichloroethane	N.D.	0.8	ug/l	91		80-120		
Trichloroethene	N.D.	1.	ug/l	95		80-120		
Trichlorofluoromethane	N.D.	2.	ug/l	107		65-130		
Vinyl Chloride	N.D.	1.	ug/l	92		56-123		
Xylene (Total)	N.D.	0.8	ug/l	93		77-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1352581
Reported: 12/11/12 at 02:10 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: L123422AA	Sample number(s): 6877010-6877011 UNSPK: P881505								
Acrolein	86	81	33-147	5	30				
Acrylonitrile	99	95	43-146	4	30				
Benzene	108	105	72-134	3	30				
Bromodichloromethane	102	98	78-125	4	30				
Bromoform	83	80	48-118	4	30				
Bromomethane	92	90	47-129	2	30				
Carbon Tetrachloride	114	109	72-135	4	30				
Chlorobenzene	103	100	87-124	3	30				
Chloroethane	95	94	51-145	1	30				
2-Chloroethyl Vinyl Ether	0*	0*	10-151	0	30				
Chloroform	101	97	81-134	3	30				
Chloromethane	89	89	46-137	0	30				
Dibromochloromethane	92	89	74-116	4	30				
1,1-Dichloroethane	107	106	84-129	1	30				
1,2-Dichloroethane	102	99	68-131	3	30				
1,1-Dichloroethene	117	116	85-142	1	30				
cis-1,2-Dichloroethene	110	106	85-125	4	30				
trans-1,2-Dichloroethene	111	108	87-126	3	30				
1,2-Dichloropropane	102	100	83-124	2	30				
cis-1,3-Dichloropropene	97	95	70-116	2	30				
trans-1,3-Dichloropropene	79	76	74-119	3	30				
Ethylbenzene	103	101	71-134	3	30				
Methylene Chloride	105	105	78-133	1	30				
1,1,2,2-Tetrachloroethane	88	86	72-128	2	30				
Tetrachloroethene	106	103	80-128	2	30				
Toluene	104	101	80-125	3	30				
1,1,1-Trichloroethane	99	96	69-140	2	30				
1,1,2-Trichloroethane	96	95	77-124	1	30				
Trichloroethene	111	109	88-133	2	30				
Trichlorofluoromethane	122	118	64-146	3	30				
Vinyl Chloride	102	101	66-133	2	30				
Xylene (Total)	103	100	79-125	2	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 Std. Water Master
Batch number: L123422AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6877010	103	105	97	95
6877011	102	104	97	96
Blank	101	103	97	96
LCS	100	100	100	101
MS	101	104	99	100
MSD	101	101	99	100

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1352581
Reported: 12/11/12 at 02:10 PM

Surrogate Quality Control

Limits:	80-116	77-113	80-113	78-113

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

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For Eurofins Lancaster Laboratories use only
Acct. # 7039 Group # 1352581 Sample # 6877010-11
Instructions on reverse side correspond with circled numbers.

COC #319102

1 Client Information

Client: Environmental Alliance	Acct. #:
Project Name/#: Former BAE/1863	PWSID #:
Project Manager: JASON EARLY	P.O. #: 5412
Sampler: Derek ZAY	Quote #:
Name of state where samples were collected: PA	

For Lab Use Only
FSC:
SCR#: 13057

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

2 Sample Identification / **3 Grab** / **4 Matrix** (Soil ☐ Sediment ☐ Water: Potable ☐ Ground ☐ NPDES ☐ Surface ☐ Other:) / **5 Analysis Requested** / **6 Remarks**

Sample Identification	Collected Date	Collected Time	Grab	Composite	Soil	Water	Other	Total # of Containers	VOC's 8260										Remarks
TRIP BLANK	11/28/12		✓					6	✓										
W8	11/28/12	1140	✓			X		3	✓										

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed:

E-mail address:

8 Data Package Options (circle if required)
Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
Bottle storage	11/12/12	0700	B Abord	11/12/12	0700
B Abord	11/12/12	1015	Charles E. Schaeffer	11/28/12	800
Charles E. Schaeffer III	11/29/12	740	Mark Berlinger	11-29-12	1204
Mark Berlinger	11/29/12	1730			
			[signature]	11/29/12	1730

EDD Required? Yes No
If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS ____ FedEx ____ Other ✓

Temperature upon receipt 1.5 °C

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Issued by Dept. 40 Management
7044.02

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:	Prepared for:
Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425	Environmental Alliance, Inc. 5341 Limestone Rd Wilmington DE 19808

February 25, 2013

Project: 1863/ BAE - Lansdale, PA

Submittal Date: 02/12/2013
Group Number: 1368342
SDG: BAE59
PO Number: 5703
State of Sample Origin: PA

Client Sample Description	Lancaster Labs (LLI) #
RI-19S0205130840 Grab Water	6950990
RI-19D0205130915 Grab Water	6950991
W-100205131005 Grab Water	6950992
W-120205131030 Grab Water	6950993
W-140205131055 Grab Water	6950994
W-160205131215 Grab Water	6950995
PW-140205131410 Grab Water	6950996
PW-120206130910 Grab Water	6950997
W-30206130950 Grab Water	6950998
PW-10B0206131035 Grab Water	6950999
PW-130206131120 Grab Water	6951000
Recovery_Well0206131335 Grab Water	6951001
RW-10206131345 Grab Water	6951002
W-80206131445 Grab Water	6951003
PW-8B0206131550 Grab Water	6951004
PW-10207130905 Grab Water	6951005
W-10207130925 Grab Water	6951006
PW-8A0207131005 Grab Water	6951007
PW-110207131030 Grab Water	6951008
PW-20207131120 Grab Water	6951009

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO Environmental Alliance, Inc. Attn: Myrna Klair

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Megan A. Moeller
Senior Specialist

(717) 556-7261

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Analysis Report

Sample Description: RI-19S0205130840 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6950990
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/05/2013 08:40 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RI19S SDG#: BAE59-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	N130451AA	02/14/2013 06:31	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N130451AA	02/14/2013 06:31	Christopher G Torres	1

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Analysis Report

Sample Description: RI-19D0205130915 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6950991
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/05/2013 09:15 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RI19D SDG#: BAE59-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	N130451AA	02/14/2013 06:54	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N130451AA	02/14/2013 06:54	Christopher G Torres	1

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Analysis Report

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Sample Description: W-100205131005 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6950992
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/05/2013 10:05 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W--10 SDG#: BAE59-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	N130451AA	02/14/2013 07:17	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N130451AA	02/14/2013 07:17	Christopher G Torres	1

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Analysis Report

Sample Description: W-120205131030 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6950993
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/05/2013 10:30 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W--12 SDG#: BAE59-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	N130451AA	02/14/2013 07:40	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N130451AA	02/14/2013 07:40	Christopher G Torres	1

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Analysis Report

Sample Description: W-140205131055 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6950994
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/05/2013 10:55 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W--14 SDG#: BAE59-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	0.9 J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	1 J	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	N130451AA	02/14/2013 08:03	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N130451AA	02/14/2013 08:03	Christopher G Torres	1

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Analysis Report

Sample Description: W-160205131215 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6950995
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/05/2013 12:15 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W--16 SDG#: BAE59-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	N.D.	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

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Sample Description: W-160205131215 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6950995
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/05/2013 12:15 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W--16 SDG#: BAE59-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	N130451AA	02/14/2013 08:26	Christopher G Torres	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E130451AA	02/14/2013 15:45	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N130451AA	02/14/2013 08:26	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E130451AA	02/14/2013 15:45	Jason M Long	1

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Analysis Report

Sample Description: PW-140205131410 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6950996
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/05/2013 14:10 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-14 SDG#: BAE59-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	3 J	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	N130451AA	02/14/2013 08:50	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N130451AA	02/14/2013 08:50	Christopher G Torres	1

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Analysis Report

Sample Description: PW-120206130910 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6950997
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/06/2013 09:10 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-12 SDG#: BAE59-08

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acrolein	107-02-8	N.D.		40	1
10335	Acrylonitrile	107-13-1	N.D.		4	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromodichloromethane	75-27-4	N.D.		1	1
10335	Bromoform	75-25-2	N.D.		1	1
10335	Bromomethane	74-83-9	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		1	1
10335	Chlorobenzene	108-90-7	N.D.		0.8	1
10335	Chloroethane	75-00-3	N.D.		1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.		0.8	1
10335	Chloromethane	74-87-3	N.D.		1	1
10335	Dibromochloromethane	124-48-1	N.D.		1	1
10335	1,1-Dichloroethane	75-34-3	N.D.		1	1
10335	1,2-Dichloroethane	107-06-2	N.D.		1	1
10335	1,1-Dichloroethene	75-35-4	1	J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	0.8	J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10335	Ethylbenzene	100-41-4	N.D.		0.8	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10335	Tetrachloroethene	127-18-4	N.D.		0.8	1
10335	Toluene	108-88-3	N.D.		0.7	1
10335	1,1,1-Trichloroethane	71-55-6	2	J	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10335	Trichloroethene	79-01-6	11		1	1
10335	Trichlorofluoromethane	75-69-4	N.D.		2	1
10335	Vinyl Chloride	75-01-4	N.D.		1	1
10335	Xylene (Total)	1330-20-7	N.D.		0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	N130451AA	02/14/2013 09:13	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N130451AA	02/14/2013 09:13	Christopher G Torres	1

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Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: W-30206130950 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6950998
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/06/2013 09:50 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W---3 SDG#: BAE59-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	3 J	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	1 J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	43	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	11	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	N130451AA	02/14/2013 09:36	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N130451AA	02/14/2013 09:36	Christopher G Torres	1

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Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: PW-10B0206131035 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6950999
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/06/2013 10:35 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW10B SDG#: BAE59-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	11	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	N130451AA	02/14/2013 09:59	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N130451AA	02/14/2013 09:59	Christopher G Torres	1

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Analysis Report

Sample Description: PW-130206131120 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951000
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/06/2013 11:20 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-13 SDG#: BAE59-11

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acrolein	107-02-8	N.D.		40	1
10335	Acrylonitrile	107-13-1	N.D.		4	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromodichloromethane	75-27-4	N.D.		1	1
10335	Bromoform	75-25-2	N.D.		1	1
10335	Bromomethane	74-83-9	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		1	1
10335	Chlorobenzene	108-90-7	N.D.		0.8	1
10335	Chloroethane	75-00-3	N.D.		1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.		0.8	1
10335	Chloromethane	74-87-3	N.D.		1	1
10335	Dibromochloromethane	124-48-1	N.D.		1	1
10335	1,1-Dichloroethane	75-34-3	N.D.		1	1
10335	1,2-Dichloroethane	107-06-2	N.D.		1	1
10335	1,1-Dichloroethene	75-35-4	0.9	J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	2	J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10335	Ethylbenzene	100-41-4	N.D.		0.8	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10335	Tetrachloroethene	127-18-4	1	J	0.8	1
10335	Toluene	108-88-3	N.D.		0.7	1
10335	1,1,1-Trichloroethane	71-55-6	2	J	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10335	Trichloroethene	79-01-6	16		1	1
10335	Trichlorofluoromethane	75-69-4	N.D.		2	1
10335	Vinyl Chloride	75-01-4	N.D.		1	1
10335	Xylene (Total)	1330-20-7	N.D.		0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	N130451AA	02/14/2013 10:22	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N130451AA	02/14/2013 10:22	Christopher G Torres	1

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Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: Recovery_Well0206131335 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951001
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/06/2013 13:35 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

WELL- SDG#: BAE59-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	5	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	53	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	N130451AA	02/14/2013 10:44	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N130451AA	02/14/2013 10:44	Christopher G Torres	1

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Analysis Report

Sample Description: RW-10206131345 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951002
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/06/2013 13:45 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RW--1 SDG#: BAE59-13

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acrolein	107-02-8	N.D.		40	1
10335	Acrylonitrile	107-13-1	N.D.		4	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromodichloromethane	75-27-4	N.D.		1	1
10335	Bromoform	75-25-2	N.D.		1	1
10335	Bromomethane	74-83-9	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		1	1
10335	Chlorobenzene	108-90-7	N.D.		0.8	1
10335	Chloroethane	75-00-3	N.D.		1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.		0.8	1
10335	Chloromethane	74-87-3	N.D.		1	1
10335	Dibromochloromethane	124-48-1	N.D.		1	1
10335	1,1-Dichloroethane	75-34-3	N.D.		1	1
10335	1,2-Dichloroethane	107-06-2	N.D.		1	1
10335	1,1-Dichloroethene	75-35-4	2	J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	3	J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10335	Ethylbenzene	100-41-4	N.D.		0.8	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10335	Tetrachloroethene	127-18-4	1	J	0.8	1
10335	Toluene	108-88-3	N.D.		0.7	1
10335	1,1,1-Trichloroethane	71-55-6	3	J	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10335	Trichloroethene	79-01-6	77		1	1
10335	Trichlorofluoromethane	75-69-4	N.D.		2	1
10335	Vinyl Chloride	75-01-4	N.D.		1	1
10335	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	
06008	Vinyl Chloride	75-01-4	0.060		0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

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Sample Description: RW-10206131345 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951002
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/06/2013 13:45 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RW--1 SDG#: BAE59-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	N130451AA	02/14/2013 11:08	Christopher G Torres	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E130451AA	02/14/2013 16:05	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N130451AA	02/14/2013 11:08	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E130451AA	02/14/2013 16:05	Jason M Long	1

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Analysis Report

Sample Description: W-80206131445 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951003
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/06/2013 14:45 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W---8 SDG#: BAE59-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	8	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	N130451AA	02/14/2013 11:31	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N130451AA	02/14/2013 11:31	Christopher G Torres	1

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Analysis Report

Sample Description: PW-8B0206131550 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951004
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/06/2013 15:50 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-8B SDG#: BAE59-15

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acrolein	107-02-8	N.D.		40	1
10335	Acrylonitrile	107-13-1	N.D.		4	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromodichloromethane	75-27-4	N.D.		1	1
10335	Bromoform	75-25-2	N.D.		1	1
10335	Bromomethane	74-83-9	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		1	1
10335	Chlorobenzene	108-90-7	N.D.		0.8	1
10335	Chloroethane	75-00-3	N.D.		1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.		0.8	1
10335	Chloromethane	74-87-3	N.D.		1	1
10335	Dibromochloromethane	124-48-1	N.D.		1	1
10335	1,1-Dichloroethane	75-34-3	N.D.		1	1
10335	1,2-Dichloroethane	107-06-2	N.D.		1	1
10335	1,1-Dichloroethene	75-35-4	2	J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	0.9	J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10335	Ethylbenzene	100-41-4	N.D.		0.8	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10335	Tetrachloroethene	127-18-4	N.D.		0.8	1
10335	Toluene	108-88-3	N.D.		0.7	1
10335	1,1,1-Trichloroethane	71-55-6	1	J	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10335	Trichloroethene	79-01-6	11		1	1
10335	Trichlorofluoromethane	75-69-4	N.D.		2	1
10335	Vinyl Chloride	75-01-4	N.D.		1	1
10335	Xylene (Total)	1330-20-7	N.D.		0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	N130451AA	02/14/2013 11:54	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N130451AA	02/14/2013 11:54	Christopher G Torres	1

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Analysis Report

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Sample Description: PW-10207130905 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951005
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/07/2013 09:05 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-1- SDG#: BAE59-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	1 J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	24	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	N130451AA	02/14/2013 12:17	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N130451AA	02/14/2013 12:17	Christopher G Torres	1

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Analysis Report

Sample Description: W-10207130925 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951006
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/07/2013 09:25 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W---1 SDG#: BAE59-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	5 J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	42	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	0.041 J	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

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Sample Description: W-10207130925 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951006
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/07/2013 09:25 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W---1 SDG#: BAE59-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	N130451AA	02/14/2013 12:40	Christopher G Torres	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E130451AA	02/14/2013 16:25	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N130451AA	02/14/2013 12:40	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E130451AA	02/14/2013 16:25	Jason M Long	1

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Analysis Report

Sample Description: PW-8A0207131005 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951007
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/07/2013 10:05 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-8A SDG#: BAE59-18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	7	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	7	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	14	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	N.D.	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: PW-8A0207131005 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951007
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/07/2013 10:05 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-8A SDG#: BAE59-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	N130451AA	02/14/2013 13:03	Christopher G Torres	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E130451AA	02/14/2013 16:45	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N130451AA	02/14/2013 13:03	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E130451AA	02/14/2013 16:45	Jason M Long	1

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Analysis Report

Sample Description: PW-110207131030 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951008
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/07/2013 10:30 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-11 SDG#: BAE59-19

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	27	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	2 J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	0.9 J	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	6	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	53	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	0.028 J	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

Sample Description: PW-110207131030 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951008
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/07/2013 10:30 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-11 SDG#: BAE59-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	N130451AA	02/14/2013 14:03	Christopher G Torres	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E130451AA	02/14/2013 17:05	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N130451AA	02/14/2013 14:03	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E130451AA	02/14/2013 17:05	Jason M Long	1

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Analysis Report

Sample Description: PW-20207131120 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951009
LLI Group # 1368342
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/07/2013 11:20 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 16:01

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-2- SDG#: BAE59-20*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	1 J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	2 J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	3 J	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	6	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	56	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	N130451AA	02/14/2013 14:26	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N130451AA	02/14/2013 14:26	Christopher G Torres	1

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1368342
Reported: 02/25/13 at 04:01 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: E130451AA	Sample number(s): 6950995,6951002,6951006-6951008							
Vinyl Chloride	N.D.	0.010	ug/l	90	93	70-130	4	30
Batch number: N130451AA	Sample number(s): 6950990-6951009							
Acrolein	N.D.	40.	ug/l	111	115	30-171	3	30
Acrylonitrile	N.D.	4.	ug/l	80	80	61-130	0	30
Benzene	N.D.	0.5	ug/l	94	92	77-121	2	30
Bromodichloromethane	N.D.	1.	ug/l	83	82	73-120	2	30
Bromoform	N.D.	1.	ug/l	91	92	61-120	0	30
Bromomethane	N.D.	1.	ug/l	86	85	44-120	2	30
Carbon Tetrachloride	N.D.	1.	ug/l	94	93	67-122	0	30
Chlorobenzene	N.D.	0.8	ug/l	94	94	80-120	1	30
Chloroethane	N.D.	1.	ug/l	86	85	49-129	0	30
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	79	80	29-151	0	30
Chloroform	N.D.	0.8	ug/l	88	88	77-122	0	30
Chloromethane	N.D.	1.	ug/l	88	87	60-129	2	30
Dibromochloromethane	N.D.	1.	ug/l	91	90	72-120	1	30
1,1-Dichloroethane	N.D.	1.	ug/l	89	88	79-120	1	30
1,2-Dichloroethane	N.D.	1.	ug/l	87	85	64-130	2	30
1,1-Dichloroethene	N.D.	0.8	ug/l	102	102	76-124	1	30
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	101	98	80-120	3	30
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	100	98	80-120	2	30
1,2-Dichloropropane	N.D.	1.	ug/l	86	85	80-120	1	30
cis-1,3-Dichloropropene	N.D.	1.	ug/l	92	92	78-120	0	30
trans-1,3-Dichloropropene	N.D.	1.	ug/l	77	77	73-120	0	30
Ethylbenzene	N.D.	0.8	ug/l	93	94	79-120	1	30
Methylene Chloride	N.D.	2.	ug/l	96	95	84-118	2	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	90	90	75-123	0	30
Tetrachloroethene	N.D.	0.8	ug/l	102	102	79-120	1	30
Toluene	N.D.	0.7	ug/l	92	92	79-120	0	30
1,1,1-Trichloroethane	N.D.	0.8	ug/l	86	84	66-126	1	30
1,1,2-Trichloroethane	N.D.	0.8	ug/l	92	93	80-120	1	30
Trichloroethene	N.D.	1.	ug/l	92	92	80-120	1	30
Trichlorofluoromethane	N.D.	2.	ug/l	90	90	65-130	0	30
Vinyl Chloride	N.D.	1.	ug/l	85	85	56-123	0	30
Xylene (Total)	N.D.	0.8	ug/l	95	95	77-120	0	30

Surrogate Quality Control

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1368342
Reported: 02/25/13 at 04:01 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Waters by SIMS 8260B
Batch number: E130451AA

	Dibromofluoromethane
6950995	111
6951002	112
6951006	110
6951007	109
6951008	111
Blank	110
LCS	108
LCSD	110
Limits:	80-120

Analysis Name: 8260 VOCs
Batch number: N130451AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6950990	104	105	96	92
6950991	105	105	95	90
6950992	104	104	95	91
6950993	105	105	95	91
6950994	105	104	96	92
6950995	106	105	95	91
6950996	105	104	96	91
6950997	106	105	96	91
6950998	108	106	95	91
6950999	108	104	95	92
6951000	108	107	95	92
6951001	108	107	96	91
6951002	109	105	96	91
6951003	109	107	95	92
6951004	109	105	94	90
6951005	109	106	95	91
6951006	109	106	95	90
6951007	109	105	95	90
6951008	111	107	95	93
6951009	111	106	95	90
Blank	103	104	97	92
LCS	102	103	98	95
LCSD	101	103	99	97
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

1-B.C

Environmental Analysis Request/Chain of Custody

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For Eurofins Lancaster Laboratories use only
Acct. # 7039 Group # 1368342 Sample # 6950990-1009
Instructions on reverse side correspond with circled numbers.

COC #322347

1 Client Information

Client: Environmental Alliance	Acct. #:
Project Name/#: Former BAE/1863	PWSID #:
Project Manager: JASON EARLY	P.O. #:
Sampler: Derek ZAY	Quote #:
Name of state where samples were collected: PA	

4 Matrix: Soil ☐ Sediment ☐ Water: Potable ☐ Ground ☐ NPDES ☐ Surface ☐ Other: ____

5 Analysis Requested — Preservation Codes

For Lab Use Only
FSC: 134440
SCR#:

Preservation Codes: H=HCl, T=Thiosulfate, N=HNO_3, B=NaOH, S=H_2SO_4, O=Other

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Other	Total # of Containers	8260 Std. water master (H)	waters by SJMS 8260B (H)									6 Remarks
RI-19S	02/05/13	0840	✓			✓		3	✓										
RI-19D	02/05/13	0915	✓			✓		3	✓										
W-10	02/05/13	10005	✓			✓		3	✓										
W-12	02/05/13	1030	✓			✓		3	✓										
W-14	02/05/13	1055	✓			✓		3	✓										
W-16	02/05/13	1215	✓			✓		6	✓	✓									
PW-14	02/05/13	1410	✓			✓		3	✓										
PW-12	02/06/13	0910	✓			✓		3	✓										
W-3	02/06/13	0950	✓			✓		3	✓										
PW-10B	02/06/13	1035	✓			✓		3	✓										

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZ-EDP

E-mail address: JearlY@envalliance.com

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
Bottle Storage	1-30-13	0930	Mark Denlinger	1-30-13	0930
MARK DENLINGER	1-30-13	1300	[signature]	02/05/13	0615
[signature]	02/12/13	0900	Mark Denlinger	2/12/13	1005
Mark Denlinger	2-12-13	1730			
			[signature]	2/12/13	1730

EDD Required? Yes No
If yes, format: ____

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ✓

Temperature upon receipt 2.8-3.2 °C

1-DC

Environmental Analysis Request/Chain of Custody

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Acct. # 7039 For Eurofins Lancaster Laboratories use only Group # 1368342 Sample # 6950990-1009

Instructions on reverse side correspond with circled numbers.

COC #322351

1 Client Information

Client: Environmental Alliance	Acct. #:
Project Name/#: Former BAE/1863	PWSID #:
Project Manager: JASON EARLY	P.O. #:
Sampler: Derek Zak	Quote #:
Name of state where samples were collected: PA	

4 Matrix: Soil ☐ Sediment ☐ Water: Potable ☐ Ground ☐ NPDES ☐ Surface ☐ Other: ____

5 Analysis Requested — Preservation Codes

For Lab Use Only: FSC: ____ SCR#: ____

Preservation Codes: H=HCl, T=Thiosulfate, N=HNO_3, B=NaOH, S=H_2SO_4, O=Other

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Other:	Total # of Containers	8260 Std. Water master (H)	Waters by SIMS 8260B (H)									6 Remarks
PW-13	02/06/13	1120	X			X		3	X										
Recovery Well	02/06/13	1335	X			X		3	X										
RW-1	02/06/13	1345	X			X		6	X	X									
W-8	02/06/13	1445	X			X		3	X										
PW-8B	02/06/13	1550	X			X		3	X										
PW-1	02/07/13	0905	X			X		3	X										
W-1	02/07/13	0925	X			X		6	X	X									
PW-8A	02/07/13	1005	X			X		6	X	X									
PW-11	02/07/13	1030	X			X		6	X	X									
PW-2	02/07/13	1120	X			X		3	X										

7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZ-EDD

E-mail address: Jearly@envalliance.com

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

Type IV (CLP SOW) MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
[signature]	02/12/13	0900	[signature]	2-12-13	1005
[signature]	2-12-13	1730			
			[signature]	2/12/13	1730

9

EDD Required? Yes No

If yes, format: ____

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ~

Temperature upon receipt 2.8-3.2 °C

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Page 31 of 32

The white copy should accompany samples to Eurofins Lancaster Laboratories. The yellow copy should be retained by the client.

Issued by Dept. 40 Management

7044.02

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:	Prepared for:
Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425	Environmental Alliance, Inc. 5341 Limestone Rd Wilmington DE 19808

February 25, 2013

Project: 1863/ BAE - Lansdale, PA

Submittal Date: 02/12/2013
Group Number: 1368343
SDG: BAE60
PO Number: 5703
State of Sample Origin: PA

Client Sample Description	Lancaster Labs (LLI) #
PW-2DUP0207131120 Grab Water	6951010
Fox_MW-50207131230 Grab Water	6951011
PW-10A0207131325 Grab Water	6951012
RI-20S0207131415 Grab Water	6951013
W-40207131525 Grab Water	6951014
RI-310207131555 Grab Water	6951015
FIELD_BLANK0207131630 Grab Water	6951016
RINSATE_BLANK0207131645 Grab Water	6951017
TRIP_BLANK020513 Water	6951018

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO Environmental Alliance, Inc. Attn: Myrna Klair

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Respectfully Submitted,

Megan A. Moeller
Senior Specialist

(717) 556-7261

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Analysis Report

Sample Description: PW-2DUP0207131120 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951010
LLI Group # 1368343
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/07/2013 11:20 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 18:24

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-2D SDG#: BAE60-01FD

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acrolein	107-02-8	N.D.		40	1
10335	Acrylonitrile	107-13-1	N.D.		4	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromodichloromethane	75-27-4	N.D.		1	1
10335	Bromoform	75-25-2	N.D.		1	1
10335	Bromomethane	74-83-9	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		1	1
10335	Chlorobenzene	108-90-7	N.D.		0.8	1
10335	Chloroethane	75-00-3	N.D.		1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.		0.8	1
10335	Chloromethane	74-87-3	N.D.		1	1
10335	Dibromochloromethane	124-48-1	N.D.		1	1
10335	1,1-Dichloroethane	75-34-3	N.D.		1	1
10335	1,2-Dichloroethane	107-06-2	N.D.		1	1
10335	1,1-Dichloroethene	75-35-4	1	J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	2	J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10335	Ethylbenzene	100-41-4	N.D.		0.8	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10335	Tetrachloroethene	127-18-4	3	J	0.8	1
10335	Toluene	108-88-3	N.D.		0.7	1
10335	1,1,1-Trichloroethane	71-55-6	6		0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10335	Trichloroethene	79-01-6	56		1	1
10335	Trichlorofluoromethane	75-69-4	N.D.		2	1
10335	Vinyl Chloride	75-01-4	N.D.		1	1
10335	Xylene (Total)	1330-20-7	N.D.		0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	N130461AA	02/15/2013 11:53	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N130461AA	02/15/2013 11:53	Linda C Pape	1

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Analysis Report

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Sample Description: Fox_MW-50207131230 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951011
LLI Group # 1368343
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/07/2013 12:30 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 18:24

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

FOX05 SDG#: BAE60-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	15	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	1 J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	1 J	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	12	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	84	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	N130461AA	02/15/2013 12:17	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N130461AA	02/15/2013 12:17	Linda C Pape	1

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Analysis Report

Sample Description: PW-10A0207131325 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951012
LLI Group # 1368343
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/07/2013 13:25 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 18:24

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW10A SDG#: BAE60-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	12	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	N.D.	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

Sample Description: PW-10A0207131325 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951012
LLI Group # 1368343
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/07/2013 13:25 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 18:24

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW10A SDG#: BAE60-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W130451AA	02/14/2013 17:58	Emily R Styer	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E130451AA	02/14/2013 17:24	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E130451AA	02/14/2013 17:24	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W130451AA	02/14/2013 17:58	Emily R Styer	1

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Analysis Report

Sample Description: RI-20S0207131415 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951013
LLI Group # 1368343
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/07/2013 14:15 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 18:24

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RI20S SDG#: BAE60-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	3 J	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	47	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	4 J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	4 J	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	11	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	140	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	0.047 J	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

Sample Description: RI-20S0207131415 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951013
LLI Group # 1368343
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/07/2013 14:15 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 18:24

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RI20S SDG#: BAE60-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W130451AA	02/14/2013 18:22	Emily R Styer	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E130451AA	02/14/2013 17:44	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E130451AA	02/14/2013 17:44	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W130451AA	02/14/2013 18:22	Emily R Styer	1

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Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: W-40207131525 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951014
LLI Group # 1368343
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/07/2013 15:25 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 18:24

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W---4 SDG#: BAE60-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	74	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	610	10	10
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W130451AA	02/14/2013 19:33	Emily R Styer	1
10335	PPL 8260 Water	SW-846 8260B	1	N130461AA	02/15/2013 18:49	Linda C Pape	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130451AA	02/14/2013 19:33	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	N130461AA	02/15/2013 18:49	Linda C Pape	10

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Analysis Report

Sample Description: RI-310207131555 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951015
LLI Group # 1368343
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/07/2013 15:55 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 18:24

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RI-31 SDG#: BAE60-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	140	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	3 J	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	580	10	10
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y130522AA	02/21/2013 18:40	Brett W Kenyon	1
10335	PPL 8260 Water	SW-846 8260B	1	Y130522AA	02/21/2013 19:01	Brett W Kenyon	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y130522AA	02/21/2013 18:40	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y130522AA	02/21/2013 19:01	Brett W Kenyon	10

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Analysis Report

Sample Description: FIELD_BLANK0207131630 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951016
LLI Group # 1368343
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/07/2013 16:30 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 18:24

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

FB207 SDG#: BAE60-07FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	N.D.	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

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Sample Description: FIELD_BLANK0207131630 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951016
LLI Group # 1368343
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/07/2013 16:30 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 18:24

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

FB207 SDG#: BAE60-07FB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W130451AA	02/14/2013 13:59	Emily R Styer	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E130451AA	02/14/2013 15:25	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130451AA	02/14/2013 13:59	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E130451AA	02/14/2013 15:25	Jason M Long	1

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Analysis Report

Sample Description: RINSATE_BLANK0207131645 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951017
LLI Group # 1368343
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/07/2013 16:45 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 18:24

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RB207 SDG#: BAE60-08RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W130451AA	02/14/2013 14:23	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130451AA	02/14/2013 14:23	Emily R Styer	1

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Analysis Report

Sample Description: TRIP_BLANK020513 Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951018
LLI Group # 1368343
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/05/2013

Submitted: 02/12/2013 17:30
Reported: 02/25/2013 18:24

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

TB205 SDG#: BAE60-09TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W130451AA	02/14/2013 14:47	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130451AA	02/14/2013 14:47	Emily R Styer	1

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1368343
Reported: 02/25/13 at 06:24 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: E130451AA	Sample number(s): 6951012-6951013,6951016							
Vinyl Chloride	N.D.	0.010	ug/l	90	93	70-130	4	30
Batch number: N130461AA	Sample number(s): 6951010-6951011,6951014							
Acrolein	N.D.	40.	ug/l	106	111	30-171	4	30
Acrylonitrile	N.D.	4.	ug/l	80	79	61-130	1	30
Benzene	N.D.	0.5	ug/l	93	95	77-121	2	30
Bromodichloromethane	N.D.	1.	ug/l	87	89	73-120	2	30
Bromoform	N.D.	1.	ug/l	95	97	61-120	1	30
Bromomethane	N.D.	1.	ug/l	88	90	44-120	2	30
Carbon Tetrachloride	N.D.	1.	ug/l	102	104	67-122	1	30
Chlorobenzene	N.D.	0.8	ug/l	94	96	80-120	2	30
Chloroethane	N.D.	1.	ug/l	84	88	49-129	4	30
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	81	82	29-151	2	30
Chloroform	N.D.	0.8	ug/l	92	94	77-122	2	30
Chloromethane	N.D.	1.	ug/l	85	89	60-129	4	30
Dibromochloromethane	N.D.	1.	ug/l	94	95	72-120	1	30
1,1-Dichloroethane	N.D.	1.	ug/l	91	92	79-120	1	30
1,2-Dichloroethane	N.D.	1.	ug/l	92	92	64-130	0	30
1,1-Dichloroethene	N.D.	0.8	ug/l	103	104	76-124	1	30
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	100	103	80-120	2	30
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	100	103	80-120	3	30
1,2-Dichloropropane	N.D.	1.	ug/l	86	87	80-120	2	30
cis-1,3-Dichloropropene	N.D.	1.	ug/l	94	95	78-120	2	30
trans-1,3-Dichloropropene	N.D.	1.	ug/l	78	79	73-120	1	30
Ethylbenzene	N.D.	0.8	ug/l	93	95	79-120	2	30
Methylene Chloride	N.D.	2.	ug/l	97	98	84-118	1	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	89	89	75-123	0	30
Tetrachloroethene	N.D.	0.8	ug/l	103	106	79-120	3	30
Toluene	N.D.	0.7	ug/l	92	93	79-120	1	30
1,1,1-Trichloroethane	N.D.	0.8	ug/l	90	92	66-126	2	30
1,1,2-Trichloroethane	N.D.	0.8	ug/l	92	94	80-120	3	30
Trichloroethene	N.D.	1.	ug/l	94	97	80-120	3	30
Trichlorofluoromethane	N.D.	2.	ug/l	104	105	65-130	1	30
Vinyl Chloride	N.D.	1.	ug/l	85	88	56-123	3	30
Xylene (Total)	N.D.	0.8	ug/l	96	97	77-120	2	30
Batch number: W130451AA	Sample number(s): 6951012-6951014,6951016-6951018							
Acrolein	N.D.	40.	ug/l	98	115	30-171	16	30
Acrylonitrile	N.D.	4.	ug/l	90	109	61-130	20	30
Benzene	N.D.	0.5	ug/l	93	112	77-121	19	30
Bromodichloromethane	N.D.	1.	ug/l	91	111	73-120	20	30
Bromoform	N.D.	1.	ug/l	88	104	61-120	17	30
Bromomethane	N.D.	1.	ug/l	69	83	44-120	18	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1368343
Reported: 02/25/13 at 06:24 PM

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Carbon Tetrachloride	N.D.	1.	ug/l	91	111	67-122	20	30
Chlorobenzene	N.D.	0.8	ug/l	93	112	80-120	19	30
Chloroethane	N.D.	1.	ug/l	72	85	49-129	16	30
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	92	111	29-151	19	30
Chloroform	N.D.	0.8	ug/l	87	105	77-122	18	30
Chloromethane	N.D.	1.	ug/l	80	95	60-129	18	30
Dibromochloromethane	N.D.	1.	ug/l	95	114	72-120	18	30
1,1-Dichloroethane	N.D.	1.	ug/l	93	113	79-120	20	30
1,2-Dichloroethane	N.D.	1.	ug/l	91	112	64-130	21	30
1,1-Dichloroethene	N.D.	0.8	ug/l	90	109	76-124	20	30
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	95	115	80-120	19	30
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	93	113	80-120	20	30
1,2-Dichloropropane	N.D.	1.	ug/l	92	112	80-120	19	30
cis-1,3-Dichloropropene	N.D.	1.	ug/l	99	119	78-120	18	30
trans-1,3-Dichloropropene	N.D.	1.	ug/l	90	108	73-120	18	30
Ethylbenzene	N.D.	0.8	ug/l	93	112	79-120	18	30
Methylene Chloride	N.D.	2.	ug/l	91	110	84-118	19	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	91	111	75-123	19	30
Tetrachloroethene	N.D.	0.8	ug/l	92	112	79-120	20	30
Toluene	N.D.	0.7	ug/l	92	112	79-120	19	30
1,1,1-Trichloroethane	N.D.	0.8	ug/l	92	112	66-126	20	30
1,1,2-Trichloroethane	N.D.	0.8	ug/l	91	112	80-120	21	30
Trichloroethene	N.D.	1.	ug/l	93	113	80-120	19	30
Trichlorofluoromethane	N.D.	2.	ug/l	82	98	65-130	17	30
Vinyl Chloride	N.D.	1.	ug/l	83	100	56-123	18	30
Xylene (Total)	N.D.	0.8	ug/l	94	113	77-120	18	30

Batch number: Y130522AA Sample number(s): 6951015

Acrolein	N.D.	40.	ug/l	53	46-146
Acrylonitrile	N.D.	4.	ug/l	75	61-130
Benzene	N.D.	0.5	ug/l	104	77-121
Bromodichloromethane	N.D.	1.	ug/l	91	73-120
Bromoform	N.D.	1.	ug/l	67	61-120
Bromomethane	N.D.	1.	ug/l	62	51-120
Carbon Tetrachloride	N.D.	1.	ug/l	92	65-137
Chlorobenzene	N.D.	0.8	ug/l	98	80-120
Chloroethane	N.D.	1.	ug/l	66	60-120
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	95	52-127
Chloroform	N.D.	0.8	ug/l	95	77-122
Chloromethane	N.D.	1.	ug/l	94	54-123
Dibromochloromethane	N.D.	1.	ug/l	86	72-120
1,1-Dichloroethane	N.D.	1.	ug/l	107	79-120
1,2-Dichloroethane	N.D.	1.	ug/l	101	64-130
1,1-Dichloroethene	N.D.	0.8	ug/l	97	76-124
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	104	80-120
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	96	80-120
1,2-Dichloropropane	N.D.	1.	ug/l	105	80-120
cis-1,3-Dichloropropene	N.D.	1.	ug/l	100	78-120
trans-1,3-Dichloropropene	N.D.	1.	ug/l	78	66-124
Ethylbenzene	N.D.	0.8	ug/l	98	79-120
Methylene Chloride	N.D.	2.	ug/l	96	84-118
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	91	70-129
Tetrachloroethene	N.D.	0.8	ug/l	96	79-120
Toluene	N.D.	0.7	ug/l	100	79-120
1,1,1-Trichloroethane	N.D.	0.8	ug/l	93	66-126
1,1,2-Trichloroethane	N.D.	0.8	ug/l	97	80-120

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1368343
Reported: 02/25/13 at 06:24 PM

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Trichloroethene	N.D.	1.	ug/l	101		80-120		
Trichlorofluoromethane	N.D.	2.	ug/l	82		65-130		
Vinyl Chloride	N.D.	1.	ug/l	90		63-120		
Xylene (Total)	N.D.	0.8	ug/l	97		77-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: Y130522AA	Sample number(s): 6951015 UNSPK: P959107								
Acrolein	50	55	33-147	10	30				
Acrylonitrile	73	70	43-146	4	30				
Benzene	111	109	72-134	2	30				
Bromodichloromethane	93	90	78-125	3	30				
Bromoform	60	58	48-118	4	30				
Bromomethane	65	64	47-129	2	30				
Carbon Tetrachloride	99	97	72-135	2	30				
Chlorobenzene	103	102	87-124	1	30				
Chloroethane	69	68	51-145	1	30				
2-Chloroethyl Vinyl Ether	0*	0*	10-151	0	30				
Chloroform	101	98	81-134	2	30				
Chloromethane	100	98	46-137	2	30				
Dibromochloromethane	84	82	74-116	3	30				
1,1-Dichloroethane	114	112	84-129	2	30				
1,2-Dichloroethane	104	102	68-131	1	30				
1,1-Dichloroethene	106	104	75-155	2	30				
cis-1,2-Dichloroethene	110	108	80-141	2	30				
trans-1,2-Dichloroethene	105	102	81-142	3	30				
1,2-Dichloropropane	110	108	83-124	2	30				
cis-1,3-Dichloropropene	97	97	70-116	0	30				
trans-1,3-Dichloropropene	75	76	74-119	0	30				
Ethylbenzene	106	104	71-134	2	30				
Methylene Chloride	100	97	78-133	3	30				
1,1,2,2-Tetrachloroethane	93	92	72-128	2	30				
Tetrachloroethene	105	102	80-128	3	30				
Toluene	108	106	80-125	2	30				
1,1,1-Trichloroethane	102	100	69-140	2	30				
1,1,2-Trichloroethane	99	97	71-141	2	30				
Trichloroethene	110	107	88-133	3	30				
Trichlorofluoromethane	92	89	64-146	3	30				
Vinyl Chloride	103	98	66-133	4	30				
Xylene (Total)	104	103	79-125	1	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1368343
Reported: 02/25/13 at 06:24 PM

Surrogate Quality Control

Analysis Name: Waters by SIMS 8260B
Batch number: E130451AA

	Dibromofluoromethane
6951012	111
6951013	111
6951016	110
Blank	110
LCS	108
LCSD	110
Limits:	80-120

Analysis Name: 8260 VOCs
Batch number: N130461AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6951010	107	104	96	93
6951011	107	106	95	93
Blank	106	104	96	93
LCS	105	104	98	96
LCSD	105	103	98	97
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 VOCs
Batch number: W130451AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6951012	98	99	99	97
6951013	98	101	100	99
6951014	98	99	100	98
6951016	98	103	100	98
6951017	98	101	100	98
6951018	98	99	99	98
Blank	99	102	99	98
LCS	98	102	98	99
LCSD	99	101	99	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 VOCs
Batch number: Y130522AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6951015	97	100	96	98
Blank	96	99	100	99
LCS	96	101	100	100
MS	96	103	101	100
MSD	95	100	101	100
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1368343
Reported: 02/25/13 at 06:24 PM

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

1-BC

Environmental Analysis Request/Chain of Custody

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Acct. # 7039 For Eurofins Lancaster Laboratories use only Group # 1368343 Sample # 6951010-18

Instructions on reverse side correspond with circled numbers.

COC #322348

1 Client Information

Client: Environmental Alliance	Acct. #:
Project Name/#: Former BAE/1863	PWSID #:
Project Manager: JASON EARLY	P.O. #:
Sampler: Derek Zak	Quote #:
Name of state where samples were collected: PA	

4 Matrix: Sediment ☐ Soil ☐ Ground ☐ Potable ☐ Surface ☐ NPDES ☐ Water ☐ Other: ____

5 Analysis Requested — Preservation Codes

For Lab Use Only: FSC: ____ SCR#: ____

Preservation Codes: H=HCl, T=Thiosulfate, N=HNO_3, B=NaOH, S=H_2SO_4, O=Other

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Other:	Total # of Containers	8260 STd. Water master (H)	Waters by SIMS 8260B (H)								
PW-2 DUP	02/07/13	1120	X			X		3	X									
DZ ~~Fox MW-5~~ Fox MW-5	02/07/13	1230	X			X		3	X									
DZ ~~PW-12~~ PW-10A	02/07/13	1325	X					6	X	X								
DZ ~~W-3~~ RI-205	02/07/13	1415	X					6	X	X								
DZ ~~[illegible]~~ W-4	02/07/13	1525	X					3	X									
DZ ~~[illegible]~~ RI-31	02/07/13	1555	X					3	X									
FIELD BLANK	02/07/13	1630	X					6	X	X								
RINSATE BLANK	02/07/13	1645	X					3	X									
TRIP BLANK								6	X									

7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZEDD

E-mail address: Jearly@envalliance.com

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	02/12/13	0900	[signature] Denlinger	2/12/13	1005
[signature] Denlinger	2/12/13	1730			
			[signature]	2/12/13	1730

EDD Required? Yes No

If yes, format: ____

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ✓

Temperature upon receipt 2.3-3.2 °C

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:	Prepared for:
Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425	Environmental Alliance, Inc. 5341 Limestone Rd Wilmington DE 19808

February 22, 2013

Project: 1863/ BAE - Lansdale, PA

Submittal Date: 02/12/2013
Group Number: 1368344
SDG: BAE61
PO Number: 5703
State of Sample Origin: PA

Client Sample Description	Lancaster Labs (LLI) #
PW-9A0211131020 Grab Water	6951019
PW-9B0211131055 Grab Water	6951020
Trip_Blank021113 Water	6951021

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO Environmental Alliance, Inc. Attn: Myrna Klair

Respectfully Submitted,

Megan A. Moeller
Senior Specialist

(717) 556-7261

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Analysis Report

Sample Description: PW-9A0211131020 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951019
LLI Group # 1368344
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/11/2013 10:20 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/22/2013 13:13

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-9A SDG#: BAE61-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	16	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	2 J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	12	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	0.031 J	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

Sample Description: PW-9A0211131020 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951019
LLI Group # 1368344
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/11/2013 10:20 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/22/2013 13:13

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-9A SDG#: BAE61-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W130451AA	02/14/2013 18:46	Emily R Styer	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E130451AA	02/14/2013 18:04	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E130451AA	02/14/2013 18:04	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W130451AA	02/14/2013 18:46	Emily R Styer	1

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Analysis Report

Sample Description: PW-9B0211131055 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951020
LLI Group # 1368344
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/11/2013 10:55 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/22/2013 13:13

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-9B SDG#: BAE61-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	2 J	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	81	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	14	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	4 J	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	52	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	0.064	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: PW-9B0211131055 Grab Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951020
LLI Group # 1368344
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/11/2013 10:55 by DZ

Submitted: 02/12/2013 17:30
Reported: 02/22/2013 13:13

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-9B SDG#: BAE61-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W130451AA	02/14/2013 19:09	Emily R Styer	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E130451AA	02/14/2013 18:24	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E130451AA	02/14/2013 18:24	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W130451AA	02/14/2013 19:09	Emily R Styer	1

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Analysis Report

Sample Description: Trip_Blank021113 Water
1863/ BAE-Lansdale, PA

LLI Sample # WW 6951021
LLI Group # 1368344
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 02/11/2013

Submitted: 02/12/2013 17:30
Reported: 02/22/2013 13:13

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

BAETB SDG#: BAE61-03TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W130451AA	02/14/2013 15:11	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W130451AA	02/14/2013 15:11	Emily R Styer	1

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1368344
Reported: 02/22/13 at 01:13 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: E130451AA	Sample number(s): 6951019-6951020							
Vinyl Chloride	N.D.	0.010	ug/l	90	93	70-130	4	30
Batch number: W130451AA	Sample number(s): 6951019-6951021							
Acrolein	N.D.	40.	ug/l	98	115	30-171	16	30
Acrylonitrile	N.D.	4.	ug/l	90	109	61-130	20	30
Benzene	N.D.	0.5	ug/l	93	112	77-121	19	30
Bromodichloromethane	N.D.	1.	ug/l	91	111	73-120	20	30
Bromoform	N.D.	1.	ug/l	88	104	61-120	17	30
Bromomethane	N.D.	1.	ug/l	69	83	44-120	18	30
Carbon Tetrachloride	N.D.	1.	ug/l	91	111	67-122	20	30
Chlorobenzene	N.D.	0.8	ug/l	93	112	80-120	19	30
Chloroethane	N.D.	1.	ug/l	72	85	49-129	16	30
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	92	111	29-151	19	30
Chloroform	N.D.	0.8	ug/l	87	105	77-122	18	30
Chloromethane	N.D.	1.	ug/l	80	95	60-129	18	30
Dibromochloromethane	N.D.	1.	ug/l	95	114	72-120	18	30
1,1-Dichloroethane	N.D.	1.	ug/l	93	113	79-120	20	30
1,2-Dichloroethane	N.D.	1.	ug/l	91	112	64-130	21	30
1,1-Dichloroethene	N.D.	0.8	ug/l	90	109	76-124	20	30
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	95	115	80-120	19	30
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	93	113	80-120	20	30
1,2-Dichloropropane	N.D.	1.	ug/l	92	112	80-120	19	30
cis-1,3-Dichloropropene	N.D.	1.	ug/l	99	119	78-120	18	30
trans-1,3-Dichloropropene	N.D.	1.	ug/l	90	108	73-120	18	30
Ethylbenzene	N.D.	0.8	ug/l	93	112	79-120	18	30
Methylene Chloride	N.D.	2.	ug/l	91	110	84-118	19	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	91	111	75-123	19	30
Tetrachloroethene	N.D.	0.8	ug/l	92	112	79-120	20	30
Toluene	N.D.	0.7	ug/l	92	112	79-120	19	30
1,1,1-Trichloroethane	N.D.	0.8	ug/l	92	112	66-126	20	30
1,1,2-Trichloroethane	N.D.	0.8	ug/l	91	112	80-120	21	30
Trichloroethene	N.D.	1.	ug/l	93	113	80-120	19	30
Trichlorofluoromethane	N.D.	2.	ug/l	82	98	65-130	17	30
Vinyl Chloride	N.D.	1.	ug/l	83	100	56-123	18	30
Xylene (Total)	N.D.	0.8	ug/l	94	113	77-120	18	30

Surrogate Quality Control

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1368344
Reported: 02/22/13 at 01:13 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Waters by SIMS 8260B
Batch number: E130451AA

	Dibromofluoromethane
6951019	112
6951020	109
Blank	110
LCS	108
LCSD	110
Limits:	80-120

Analysis Name: 8260 VOCs
Batch number: W130451AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6951019	99	101	99	98
6951020	99	101	99	98
6951021	98	99	99	98
Blank	99	102	99	98
LCS	98	102	98	99
LCSD	99	101	99	98
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

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Acct. # 7039 For Eurofins Lancaster Laboratories use only Group # 1368344 Sample # 6951019-21
Instructions on reverse side correspond with circled numbers.

COC #322349

1 Client Information

Client: Environmental Alliance
Acct. #:
Project Name/#: Former BAE/1863
PWSID #:
Project Manager: JASON EAMY
P.O. #:
Sampler: Derek Zak
Quote #:
Name of state where samples were collected: PA

4 Matrix: Sediment ☐ Soil ☐ Ground ☐ Potable ☐ Surface ☐ NPDES ☐ Water Other: ____

5 Analysis Requested — Preservation Codes

For Lab Use Only
FSC:
SCR#:

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Other	Total # of Containers	# 8260B Waters by SIMS	# 8260 Std. Water masters	6 Remarks
PW-9A	02/11/13	1020	X			X		6	X	X	
PW-9B	02/11/13	1055	X			X		6	X	X	

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZ-EDD

E-mail address: Jeamy@envalliance.com

8 Data Package Options (circle if required)
Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
[signature]	02/12/13	0900	[signature]	2/12/13	[illegible]
[signature]	2-12-13	1730			
			[signature]	2/12/13	1730

9

EDD Required? Yes No
If yes, format:
Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: ✓
UPS ____ FedEx ____ Other ____
Temperature upon receipt 2.9-3.2 °C

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

May 21, 2013

Project: 1863/ BAE - Lansdale, PA

Submittal Date: 05/13/2013
Group Number: 1389512
SDG: BAE62
PO Number: 1863
State of Sample Origin: PA

Client Sample Description	Lancaster Labs (LLI) #
RI-19S0507130920 Grab Water	7054265
RI-19D0507131007 Grab Water	7054266
W-100507131050 Grab Water	7054267
W-120507131115 Grab Water	7054268
W-140507131140 Grab Water	7054269
W-160507131220 Grab Water	7054270
PW-140507131350 Grab Water	7054271
PW-120507131450 Grab Water	7054272
W-30508131045 Grab Water	7054273
PW-10B0508131130 Grab Water	7054274
PW-130508131240 Grab Water	7054275
Recovery_Well0508131415 Grab Water	7054276
RW-10508131425 Grab Water	7054277
W-80509130915 Grab Water	7054278
PW-8B0509131010 Grab Water	7054279
PW-10509131105 Grab Water	7054280
W-10509131115 Grab Water	7054281
PW-8A0509131210 Grab Water	7054282
PW-110509131235 Grab Water	7054283
PW-20509131325 Grab Water	7054284

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO Environmental Alliance, Inc. Attn: Myrna Klair

Respectfully Submitted,

Megan A. Moeller
Senior Specialist

(717) 556-7261

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2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: RI-19S0507130920 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054265
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/07/2013 09:20 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RI19S SDG#: BAE62-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131362AA	05/17/2013 01:56	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131362AA	05/17/2013 01:56	Sarah A Guill	1

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Analysis Report

Sample Description: RI-19D0507131007 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054266
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/07/2013 10:07 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RI19D SDG#: BAE62-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131362AA	05/17/2013 02:17	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131362AA	05/17/2013 02:17	Sarah A Guill	1

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Analysis Report

Sample Description: W-100507131050 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054267
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/07/2013 10:50 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W--10 SDG#: BAE62-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131362AA	05/17/2013 02:38	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131362AA	05/17/2013 02:38	Sarah A Guill	1

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Analysis Report

Sample Description: W-120507131115 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054268
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/07/2013 11:15 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W--12 SDG#: BAE62-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131362AA	05/17/2013 02:59	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131362AA	05/17/2013 02:59	Sarah A Guill	1

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Analysis Report

Sample Description: W-140507131140 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054269
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/07/2013 11:40 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W--14 SDG#: BAE62-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	3 J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	3 J	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	3 J	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131362AA	05/17/2013 03:20	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131362AA	05/17/2013 03:20	Sarah A Guill	1

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Analysis Report

Sample Description: W-160507131220 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054270
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/07/2013 12:20 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W--16 SDG#: BAE62-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	N.D.	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

Sample Description: W-160507131220 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054270
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/07/2013 12:20 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W--16 SDG#: BAE62-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131362AA	05/17/2013 03:41	Sarah A Guill	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E131371AA	05/17/2013 11:30	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131362AA	05/17/2013 03:41	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E131371AA	05/17/2013 11:30	Jason M Long	1

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Analysis Report

Sample Description: PW-140507131350 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054271
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/07/2013 13:50 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-14 SDG#: BAE62-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	2 J	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131362AA	05/17/2013 04:02	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131362AA	05/17/2013 04:02	Sarah A Guill	1

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Analysis Report

Sample Description: PW-120507131450 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054272
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/07/2013 14:50 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-12 SDG#: BAE62-08

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acrolein	107-02-8	N.D.		40	1
10335	Acrylonitrile	107-13-1	N.D.		4	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromodichloromethane	75-27-4	N.D.		1	1
10335	Bromoform	75-25-2	N.D.		1	1
10335	Bromomethane	74-83-9	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		1	1
10335	Chlorobenzene	108-90-7	N.D.		0.8	1
10335	Chloroethane	75-00-3	N.D.		1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.		0.8	1
10335	Chloromethane	74-87-3	N.D.		1	1
10335	Dibromochloromethane	124-48-1	N.D.		1	1
10335	1,1-Dichloroethane	75-34-3	N.D.		1	1
10335	1,2-Dichloroethane	107-06-2	N.D.		1	1
10335	1,1-Dichloroethene	75-35-4	2	J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	0.9	J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10335	Ethylbenzene	100-41-4	N.D.		0.8	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10335	Tetrachloroethene	127-18-4	N.D.		0.8	1
10335	Toluene	108-88-3	N.D.		0.7	1
10335	1,1,1-Trichloroethane	71-55-6	2	J	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10335	Trichloroethene	79-01-6	12		1	1
10335	Trichlorofluoromethane	75-69-4	N.D.		2	1
10335	Vinyl Chloride	75-01-4	N.D.		1	1
10335	Xylene (Total)	1330-20-7	N.D.		0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131362AA	05/17/2013 04:23	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131362AA	05/17/2013 04:23	Sarah A Guill	1

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Analysis Report

Sample Description: W-30508131045 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054273
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/08/2013 10:45 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W---3 SDG#: BAE62-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	4 J	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	1 J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	44	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	10	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131362AA	05/17/2013 04:43	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131362AA	05/17/2013 04:43	Sarah A Guill	1

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Analysis Report

Sample Description: PW-10B0508131130 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054274
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/08/2013 11:30 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW10B SDG#: BAE62-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	13	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131362AA	05/17/2013 05:04	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131362AA	05/17/2013 05:04	Sarah A Guill	1

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Analysis Report

Sample Description: PW-130508131240 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054275
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/08/2013 12:40 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-13 SDG#: BAE62-11

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acrolein	107-02-8	N.D.		40	1
10335	Acrylonitrile	107-13-1	N.D.		4	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromodichloromethane	75-27-4	N.D.		1	1
10335	Bromoform	75-25-2	N.D.		1	1
10335	Bromomethane	74-83-9	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		1	1
10335	Chlorobenzene	108-90-7	N.D.		0.8	1
10335	Chloroethane	75-00-3	N.D.		1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.		0.8	1
10335	Chloromethane	74-87-3	N.D.		1	1
10335	Dibromochloromethane	124-48-1	N.D.		1	1
10335	1,1-Dichloroethane	75-34-3	N.D.		1	1
10335	1,2-Dichloroethane	107-06-2	N.D.		1	1
10335	1,1-Dichloroethene	75-35-4	1	J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	3	J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10335	Ethylbenzene	100-41-4	N.D.		0.8	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10335	Tetrachloroethene	127-18-4	1	J	0.8	1
10335	Toluene	108-88-3	N.D.		0.7	1
10335	1,1,1-Trichloroethane	71-55-6	2	J	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10335	Trichloroethene	79-01-6	20		1	1
10335	Trichlorofluoromethane	75-69-4	N.D.		2	1
10335	Vinyl Chloride	75-01-4	N.D.		1	1
10335	Xylene (Total)	1330-20-7	N.D.		0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131362AA	05/17/2013 05:25	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131362AA	05/17/2013 05:25	Sarah A Guill	1

Sample Description: Recovery_Well0508131415 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054276
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/08/2013 14:15 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RCVRY SDG#: BAE62-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	19	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	120	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131362AA	05/17/2013 05:46	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131362AA	05/17/2013 05:46	Sarah A Guill	1

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Analysis Report

Sample Description: RW-10508131425 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054277
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/08/2013 14:25 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RW--1 SDG#: BAE62-13

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acrolein	107-02-8	N.D.		40	1
10335	Acrylonitrile	107-13-1	N.D.		4	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromodichloromethane	75-27-4	N.D.		1	1
10335	Bromoform	75-25-2	N.D.		1	1
10335	Bromomethane	74-83-9	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		1	1
10335	Chlorobenzene	108-90-7	N.D.		0.8	1
10335	Chloroethane	75-00-3	N.D.		1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.		0.8	1
10335	Chloromethane	74-87-3	N.D.		1	1
10335	Dibromochloromethane	124-48-1	N.D.		1	1
10335	1,1-Dichloroethane	75-34-3	N.D.		1	1
10335	1,2-Dichloroethane	107-06-2	N.D.		1	1
10335	1,1-Dichloroethene	75-35-4	3	J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	3	J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10335	Ethylbenzene	100-41-4	N.D.		0.8	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10335	Tetrachloroethene	127-18-4	1	J	0.8	1
10335	Toluene	108-88-3	N.D.		0.7	1
10335	1,1,1-Trichloroethane	71-55-6	4	J	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10335	Trichloroethene	79-01-6	85		1	1
10335	Trichlorofluoromethane	75-69-4	N.D.		2	1
10335	Vinyl Chloride	75-01-4	N.D.		1	1
10335	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	
06008	Vinyl Chloride	75-01-4	0.066		0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

Sample Description: RW-10508131425 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054277
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/08/2013 14:25 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RW--1 SDG#: BAE62-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131362AA	05/17/2013 06:07	Sarah A Guill	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E131371AA	05/17/2013 11:51	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131362AA	05/17/2013 06:07	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E131371AA	05/17/2013 11:51	Jason M Long	1

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Analysis Report

Sample Description: W-80509130915 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054278
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/09/2013 09:15 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W---8 SDG#: BAE62-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	6	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131362AA	05/17/2013 06:28	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131362AA	05/17/2013 06:28	Sarah A Guill	1

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Analysis Report

Sample Description: PW-8B0509131010 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054279
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/09/2013 10:10 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-8B SDG#: BAE62-15

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acrolein	107-02-8	N.D.		40	1
10335	Acrylonitrile	107-13-1	N.D.		4	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromodichloromethane	75-27-4	N.D.		1	1
10335	Bromoform	75-25-2	N.D.		1	1
10335	Bromomethane	74-83-9	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		1	1
10335	Chlorobenzene	108-90-7	N.D.		0.8	1
10335	Chloroethane	75-00-3	N.D.		1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.		0.8	1
10335	Chloromethane	74-87-3	N.D.		1	1
10335	Dibromochloromethane	124-48-1	N.D.		1	1
10335	1,1-Dichloroethane	75-34-3	N.D.		1	1
10335	1,2-Dichloroethane	107-06-2	N.D.		1	1
10335	1,1-Dichloroethene	75-35-4	3	J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	1	J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10335	Ethylbenzene	100-41-4	N.D.		0.8	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10335	Tetrachloroethene	127-18-4	N.D.		0.8	1
10335	Toluene	108-88-3	N.D.		0.7	1
10335	1,1,1-Trichloroethane	71-55-6	1	J	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10335	Trichloroethene	79-01-6	13		1	1
10335	Trichlorofluoromethane	75-69-4	N.D.		2	1
10335	Vinyl Chloride	75-01-4	N.D.		1	1
10335	Xylene (Total)	1330-20-7	N.D.		0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131371AA	05/17/2013 11:51	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131371AA	05/17/2013 11:51	Angela D Sneeringer	1

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Analysis Report

Sample Description: PW-10509131105 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054280
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/09/2013 11:05 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW--1 SDG#: BAE62-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	11	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	59	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131371AA	05/17/2013 12:12	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131371AA	05/17/2013 12:12	Angela D Sneeringer	1

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Analysis Report

Sample Description: W-10509131115 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054281
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/09/2013 11:15 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W---1 SDG#: BAE62-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	12	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	59	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	0.023 J	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

Sample Description: W-10509131115 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054281
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/09/2013 11:15 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W---1 SDG#: BAE62-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131371AA	05/17/2013 12:33	Angela D Sneeringer	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E131371AA	05/17/2013 12:10	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E131371AA	05/17/2013 12:10	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y131371AA	05/17/2013 12:33	Angela D Sneeringer	1

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Analysis Report

Sample Description: PW-8A0509131210 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054282
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/09/2013 12:10 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-8A SDG#: BAE62-18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	6	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	7	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	11	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	N.D.	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

Sample Description: PW-8A0509131210 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054282
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/09/2013 12:10 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-8A SDG#: BAE62-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131371AA	05/17/2013 12:54	Angela D Sneeringer	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E131371AA	05/17/2013 12:30	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E131371AA	05/17/2013 12:30	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y131371AA	05/17/2013 12:54	Angela D Sneeringer	1

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Analysis Report

Sample Description: PW-110509131235 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054283
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/09/2013 12:35 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-11 SDG#: BAE62-19

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acrolein	107-02-8	N.D.		40	1
10335	Acrylonitrile	107-13-1	N.D.		4	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromodichloromethane	75-27-4	N.D.		1	1
10335	Bromoform	75-25-2	N.D.		1	1
10335	Bromomethane	74-83-9	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		1	1
10335	Chlorobenzene	108-90-7	N.D.		0.8	1
10335	Chloroethane	75-00-3	N.D.		1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.		0.8	1
10335	Chloromethane	74-87-3	N.D.		1	1
10335	Dibromochloromethane	124-48-1	N.D.		1	1
10335	1,1-Dichloroethane	75-34-3	1	J	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.		1	1
10335	1,1-Dichloroethene	75-35-4	40		0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	2	J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10335	Ethylbenzene	100-41-4	N.D.		0.8	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10335	Tetrachloroethene	127-18-4	1	J	0.8	1
10335	Toluene	108-88-3	N.D.		0.7	1
10335	1,1,1-Trichloroethane	71-55-6	7		0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10335	Trichloroethene	79-01-6	66		1	1
10335	Trichlorofluoromethane	75-69-4	N.D.		2	1
10335	Vinyl Chloride	75-01-4	N.D.		1	1
10335	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	
06008	Vinyl Chloride	75-01-4	0.027	J	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

Sample Description: PW-110509131235 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054283
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/09/2013 12:35 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-11 SDG#: BAE62-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131371AA	05/17/2013 13:15	Angela D Sneeringer	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E131371AA	05/17/2013 12:50	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E131371AA	05/17/2013 12:50	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y131371AA	05/17/2013 13:15	Angela D Sneeringer	1

Sample Description: PW-20509131325 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054284
LLI Group # 1389512
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/09/2013 13:25 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-2- SDG#: BAE62-20*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acrolein	107-02-8	N.D.		40	1
10335	Acrylonitrile	107-13-1	N.D.		4	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromodichloromethane	75-27-4	N.D.		1	1
10335	Bromoform	75-25-2	N.D.		1	1
10335	Bromomethane	74-83-9	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		1	1
10335	Chlorobenzene	108-90-7	N.D.		0.8	1
10335	Chloroethane	75-00-3	N.D.		1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.		0.8	1
10335	Chloromethane	74-87-3	N.D.		1	1
10335	Dibromochloromethane	124-48-1	N.D.		1	1
10335	1,1-Dichloroethane	75-34-3	N.D.		1	1
10335	1,2-Dichloroethane	107-06-2	N.D.		1	1
10335	1,1-Dichloroethene	75-35-4	2	J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	4	J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10335	Ethylbenzene	100-41-4	N.D.		0.8	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10335	Tetrachloroethene	127-18-4	3	J	0.8	1
10335	Toluene	108-88-3	N.D.		0.7	1
10335	1,1,1-Trichloroethane	71-55-6	10		0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10335	Trichloroethene	79-01-6	94		1	1
10335	Trichlorofluoromethane	75-69-4	N.D.		2	1
10335	Vinyl Chloride	75-01-4	N.D.		1	1
10335	Xylene (Total)	1330-20-7	N.D.		0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131371AA	05/17/2013 13:36	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131371AA	05/17/2013 13:36	Angela D Sneeringer	1

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1389512
Reported: 05/21/13 at 06:59 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: E131371AA	Sample number(s): 7054270,7054277,7054281-7054283							
Vinyl Chloride	N.D.	0.010	ug/l	87	87	70-130	0	30
Batch number: Y131362AA	Sample number(s): 7054265-7054278							
Acrolein	N.D.	40.	ug/l	81		46-146		
Acrylonitrile	N.D.	4.	ug/l	99		61-130		
Benzene	N.D.	0.5	ug/l	104		77-121		
Bromodichloromethane	N.D.	1.	ug/l	105		73-120		
Bromoform	N.D.	1.	ug/l	101		61-120		
Bromomethane	N.D.	1.	ug/l	95		51-120		
Carbon Tetrachloride	N.D.	1.	ug/l	104		65-137		
Chlorobenzene	N.D.	0.8	ug/l	106		80-120		
Chloroethane	N.D.	1.	ug/l	92		60-120		
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	100		52-127		
Chloroform	N.D.	0.8	ug/l	109		77-122		
Chloromethane	N.D.	1.	ug/l	95		54-123		
Dibromochloromethane	N.D.	1.	ug/l	107		72-120		
1,1-Dichloroethane	N.D.	1.	ug/l	108		79-120		
1,2-Dichloroethane	N.D.	1.	ug/l	116		64-130		
1,1-Dichloroethene	N.D.	0.8	ug/l	106		76-124		
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	107		80-120		
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	107		80-120		
1,2-Dichloropropane	N.D.	1.	ug/l	106		80-120		
cis-1,3-Dichloropropene	N.D.	1.	ug/l	100		78-120		
trans-1,3-Dichloropropene	N.D.	1.	ug/l	90		66-124		
Ethylbenzene	N.D.	0.8	ug/l	101		79-120		
Methylene Chloride	N.D.	2.	ug/l	109		84-118		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	104		70-129		
Tetrachloroethene	N.D.	0.8	ug/l	108		79-120		
Toluene	N.D.	0.7	ug/l	101		79-120		
1,1,1-Trichloroethane	N.D.	0.8	ug/l	92		66-126		
1,1,2-Trichloroethane	N.D.	0.8	ug/l	108		80-120		
Trichloroethene	N.D.	1.	ug/l	105		80-120		
Trichlorofluoromethane	N.D.	2.	ug/l	96		65-130		
Vinyl Chloride	N.D.	1.	ug/l	94		63-120		
Xylene (Total)	N.D.	0.8	ug/l	103		77-120		
Batch number: Y131371AA	Sample number(s): 7054279-7054284							
Acrolein	N.D.	40.	ug/l	95	101	46-146	6	30
Acrylonitrile	N.D.	4.	ug/l	103	106	61-130	3	30
Benzene	N.D.	0.5	ug/l	103	106	77-121	3	30
Bromodichloromethane	N.D.	1.	ug/l	106	109	73-120	2	30
Bromoform	N.D.	1.	ug/l	109	112	61-120	3	30
Bromomethane	N.D.	1.	ug/l	99	94	51-120	4	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1389512
Reported: 05/21/13 at 06:59 PM

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Carbon Tetrachloride	N.D.	1.	ug/l	112	114	65-137	2	30
Chlorobenzene	N.D.	0.8	ug/l	106	109	80-120	2	30
Chloroethane	N.D.	1.	ug/l	92	88	60-120	5	30
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	93	101	52-127	9	30
Chloroform	N.D.	0.8	ug/l	110	111	77-122	1	30
Chloromethane	N.D.	1.	ug/l	93	89	54-123	4	30
Dibromochloromethane	N.D.	1.	ug/l	110	112	72-120	2	30
1,1-Dichloroethane	N.D.	1.	ug/l	107	109	79-120	2	30
1,2-Dichloroethane	N.D.	1.	ug/l	116	120	64-130	3	30
1,1-Dichloroethene	N.D.	0.8	ug/l	113	114	76-124	1	30
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	107	108	80-120	1	30
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	109	111	80-120	2	30
1,2-Dichloropropane	N.D.	1.	ug/l	105	108	80-120	3	30
cis-1,3-Dichloropropene	N.D.	1.	ug/l	99	103	78-120	5	30
trans-1,3-Dichloropropene	N.D.	1.	ug/l	91	95	66-124	4	30
Ethylbenzene	N.D.	0.8	ug/l	102	104	79-120	2	30
Methylene Chloride	N.D.	2.	ug/l	110	110	84-118	0	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	102	107	70-129	4	30
Tetrachloroethene	N.D.	0.8	ug/l	111	113	79-120	2	30
Toluene	N.D.	0.7	ug/l	101	104	79-120	2	30
1,1,1-Trichloroethane	N.D.	0.8	ug/l	95	97	66-126	3	30
1,1,2-Trichloroethane	N.D.	0.8	ug/l	108	112	80-120	3	30
Trichloroethene	N.D.	1.	ug/l	107	109	80-120	2	30
Trichlorofluoromethane	N.D.	2.	ug/l	111	105	65-130	6	30
Vinyl Chloride	N.D.	1.	ug/l	93	89	63-120	4	30
Xylene (Total)	N.D.	0.8	ug/l	105	107	77-120	2	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: Y131362AA	Sample number(s): 7054265-7054278 UNSPK: P053503								
Acrolein	74	77	33-147	4	30				
Acrylonitrile	94	98	43-146	4	30				
Benzene	111	114	72-134	2	30				
Bromodichloromethane	105	108	78-125	3	30				
Bromoform	89	94	48-118	6	30				
Bromomethane	101	99	47-129	1	30				
Carbon Tetrachloride	122	123	72-135	1	30				
Chlorobenzene	111	114	87-124	3	30				
Chloroethane	96	97	51-145	1	30				
2-Chloroethyl Vinyl Ether	0*	0*	10-151	0	30				
Chloroform	115	117	81-134	2	30				
Chloromethane	112	97	46-137	14	30				
Dibromochloromethane	102	105	74-116	3	30				
1,1-Dichloroethane	114	118	84-129	3	30				
1,2-Dichloroethane	118	120	68-131	2	30				
1,1-Dichloroethene	123	126	75-155	2	30				
cis-1,2-Dichloroethene	113	116	80-141	3	30				
trans-1,2-Dichloroethene	118	121	81-142	3	30				

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1389512
Reported: 05/21/13 at 06:59 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Dichloropropane	110	113	83-124	3	30				
cis-1,3-Dichloropropene	92	97	70-116	6	30				
trans-1,3-Dichloropropene	84	90	74-119	6	30				
Ethylbenzene	109	112	71-134	3	30				
Methylene Chloride	112	115	78-133	3	30				
1,1,2,2-Tetrachloroethane	102	106	72-128	4	30				
Tetrachloroethene	119	122	80-128	3	30				
Toluene	109	111	80-125	2	30				
1,1,1-Trichloroethane	104	107	69-140	3	30				
1,1,2-Trichloroethane	108	110	71-141	2	30				
Trichloroethene	116	118	88-133	2	30				
Trichlorofluoromethane	122	121	64-146	1	30				
Vinyl Chloride	105	105	66-133	1	30				
Xylene (Total)	110	113	79-125	3	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Waters by SIMS 8260B
Batch number: E131371AA

	Dibromofluoromethane
7054270	99
7054277	96
7054281	97
7054282	97
7054283	96
Blank	98
LCS	96
LCSD	97
Limits:	80-120

Analysis Name: 8260 VOCs
Batch number: Y131362AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7054265	105	101	94	88
7054266	105	102	95	89
7054267	105	101	97	88
7054268	106	102	97	89
7054269	105	103	97	88
7054270	107	104	97	88
7054271	107	104	96	87
7054272	107	104	96	88
7054273	107	104	96	87
7054274	108	103	97	87

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1389512
Reported: 05/21/13 at 06:59 PM

Surrogate Quality Control

7054275	109	104	96	87
7054276	108	104	97	87
7054277	109	105	97	87
7054278	108	105	96	87
Blank	106	105	97	89
LCS	102	104	100	98
MS	103	102	100	98
MSD	103	104	99	97
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 VOCs
Batch number: Y131371AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7054279	106	103	96	86
7054280	107	103	96	86
7054281	108	105	97	87
7054282	109	104	96	86
7054283	109	104	97	86
7054284	109	104	97	86
Blank	105	102	98	90
LCS	104	106	100	97
LCSD	102	105	99	96
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

1-C

Environmental Analysis Request/Chain of Custody

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Acct. # 7039 For Eurofins Lancaster Laboratories use only Group # 1389510 Sample # 7054265-84

Instructions on reverse side correspond with circled numbers.

COC # 329194

1 Client Information

Client: Environmental Alliance

Acct. #:

Project Name/#: Former BAE/1863

PWSID #:

Project Manager: Jason Early

P.O. #:

Sampler: Derek Zak

Quote #:

Name of state where samples were collected: PA

4 Matrix: Sediment ☐ Soil ☐ Ground ☐ Potable ☐ Surface ☐ NPDES ☐ Water ☐ Other: ____

5 Analysis Requested — Preservation Codes: H, H

For Lab Use Only
FSC:
SCR#:

Preservation Codes: H=HCl, T=Thiosulfate, N=HNO_3, B=NaOH, S=H_2SO_4, O=Other

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Sediment	Soil	Ground	Potable	Surface	NPDES	Water	Other	Total # of Containers	8260 Std. water master	Water by SIMS 8260B
RI-195	05/07/13	0920	✓								✓		3	X	
RI-190	05/07/13	1007	✓								✓		3	X	
W-10	05/07/13	1050	✓								✓		3	X	
W-12	05/07/13	1115	✓								✓		3	X	
W-14	05/07/13	1140	✓								✓		3	X	
W-16	05/07/13	1220	✓								✓		6	X	X
PW-14	05/07/13	1350	✓								✓		3	X	
PW-12	05/07/13	1450	✓								✓		3	X	
W-3	05/08/13	1045	✓								✓		3	X	
PW-10B	05/08/13	1130	✓								✓		3	X	

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: ____

E-mail address: Jason@envalliance.com

8 Data Package Options (circle if required)
Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
Derek Zak	05/13/13	0915	Mark Denlinger	5/13/13	1100
Mark Denlinger	5/13/13	1750			

9

EDD Required? Yes No
If yes, format: EZ-EDD

Site-specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____

Temperature upon receipt 0.5-1.0 °C

1-2

Environmental Analysis Request/Chain of Custody

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Acct. # 7039 For Eurofins Lancaster Laboratories use only Group # 1389512 Sample # 7054265-84

Instructions on reverse side correspond with circled numbers.

COC # 329 195

1 Client Information

Client: Environmental Alliance	Acct. #:
Project Name/#: Former BAE/1863	PWSID #:
Project Manager: JASON EARLY	P.O. #:
Sampler: Derek ZAY	Quote #:
Name of state where samples were collected: PA	

4 Matrix ☐ Sediment ☐ Soil ☐ Ground ☐ Surface ☐ Potable ☐ NPDES ☐ Water ☐ Other:

5 Analysis Requested — Preservation Codes

For Lab Use Only: FSC: ____ SCR#: ____

Preservation Codes: H=HCl, T=Thiosulfate, N=HNO_3, B=NaOH, S=H_2SO_4, O=Other

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Other	Total # of Containers	8260 Std. Water markers #	Waters by SIMS 8260B #									6 Remarks
PW-13	05/08/13	1240	✓			✓		3	X										
Recovery Well	05/08/13	1415	✓			✓		3	X										
RW-1	05/08/13	1425	✓			✓		6	X	X									
W-8	05/09/13	0915	✓			✓		3	X										
PW-8B	05/09/13	1010	✓			✓		3	X										
PW-1	05/09/13	1105	✓			✓		3	X										
W-1	05/09/13	1115	✓			✓		6	X	X									
PW-8A	05/09/13	1210	✓			✓		6	X	X									
PW-11	05/09/13	1235	✓			✓		6	X	X									
PW-2	05/09/13	1325	✓			✓		3	X										

7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: ____

E-mail address: ____

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

Type IV (CLP SOW) MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
[signature]	05/13/13	0915	Mark Denlinger	5/13/13	1100
Mark Denlinger	5/13/13	750			
			[signature]	5/13/13	1750

EDD Required? Yes No

If yes, format: EZ-EDD

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____

Temperature upon receipt 0.5-1.0 °C

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The white copy should accompany samples to Eurofins Lancaster Laboratories. The yellow copy should be retained by the client.

Issued by Dept. 40 Management 7044.02

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Environmental Sample Administration Receipt Documentation Log

1389512

Client/Project: Environmental Alliance

Date of Receipt: 5/13/13

Time of Receipt: 1750

Source Code: 01

Shipping Container Sealed: YES NO

Custody Seal Present * : YES NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	0.5	TB	WI	Y	B	
2	↓	1.0	↓	↓	↓	↓	
3	↓	0.6	↓	↓	↓	↓	
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 6

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: [signature] 2328 **Date/Time:** 5/13/13 2008

Issued by Dept. 6042 Management

2174.06

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:	Prepared for:
Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17601	Environmental Alliance, Inc. 5341 Limestone Rd Wilmington DE 19808

May 21, 2013

Project: 1863/ BAE - Lansdale, PA

Submittal Date: 05/13/2013
Group Number: 1389513
SDG: BAE63
PO Number: 1863
State of Sample Origin: PA

Client Sample Description	Lancaster Labs (LLI) #
PW-2DUP0509131325 Grab Water	7054285
FoxMW-50509131415 Grab Water	7054286
PW-10A0510130850 Grab Water	7054287
RI-20S0510130940 Grab Water	7054288
W-40510131015 Grab Water	7054289
RI-300510131045 Grab Water	7054290
RI-310510131115 Grab Water	7054291
PW-9A0510131200 Grab Water	7054292
PW-9B0510131225 Grab Water	7054293
Field_Blank0510131025 Grab Water	7054294
Rinsate_Blank0510131035 Grab Water	7054295
TB050713 Water	7054296

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO Environmental Alliance, Inc. Attn: Myrna Klair

Respectfully Submitted,

Megan A. Moeller
Senior Specialist

(717) 556-7261

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Analysis Report

Sample Description: PW-2DUP0509131325 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054285
LLI Group # 1389513
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/09/2013 13:25 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW2FD SDG#: BAE63-01FD

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acrolein	107-02-8	N.D.		40	1
10335	Acrylonitrile	107-13-1	N.D.		4	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromodichloromethane	75-27-4	N.D.		1	1
10335	Bromoform	75-25-2	N.D.		1	1
10335	Bromomethane	74-83-9	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		1	1
10335	Chlorobenzene	108-90-7	N.D.		0.8	1
10335	Chloroethane	75-00-3	N.D.		1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.		0.8	1
10335	Chloromethane	74-87-3	N.D.		1	1
10335	Dibromochloromethane	124-48-1	N.D.		1	1
10335	1,1-Dichloroethane	75-34-3	N.D.		1	1
10335	1,2-Dichloroethane	107-06-2	N.D.		1	1
10335	1,1-Dichloroethene	75-35-4	2	J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	4	J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10335	Ethylbenzene	100-41-4	N.D.		0.8	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10335	Tetrachloroethene	127-18-4	3	J	0.8	1
10335	Toluene	108-88-3	N.D.		0.7	1
10335	1,1,1-Trichloroethane	71-55-6	10		0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10335	Trichloroethene	79-01-6	92		1	1
10335	Trichlorofluoromethane	75-69-4	N.D.		2	1
10335	Vinyl Chloride	75-01-4	N.D.		1	1
10335	Xylene (Total)	1330-20-7	N.D.		0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131371AA	05/17/2013 13:56	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131371AA	05/17/2013 13:56	Angela D Sneeringer	1

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Analysis Report

Sample Description: FoxMW-50509131415 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054286
LLI Group # 1389513
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/09/2013 14:15 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

FOX-5 SDG#: BAE63-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	20	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	2 J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	2 J	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	14	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	100	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131371AA	05/17/2013 14:17	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131371AA	05/17/2013 14:17	Angela D Sneeringer	1

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Analysis Report

Sample Description: PW-10A0510130850 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054287
LLI Group # 1389513
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/10/2013 08:50 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW10A SDG#: BAE63-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	6	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	57	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	4 J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	2 J	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	7	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	130	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	0.072	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

Sample Description: PW-10A0510130850 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054287
LLI Group # 1389513
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/10/2013 08:50 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW10A SDG#: BAE63-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131371AA	05/17/2013 14:38	Angela D Sneeringer	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E131371AA	05/17/2013 13:10	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E131371AA	05/17/2013 13:10	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y131371AA	05/17/2013 14:38	Angela D Sneeringer	1

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Analysis Report

Sample Description: RI-20S0510130940 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054288
LLI Group # 1389513
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/10/2013 09:40 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RI20S SDG#: BAE63-04

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acrolein	107-02-8	N.D.		40	1
10335	Acrylonitrile	107-13-1	N.D.		4	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromodichloromethane	75-27-4	N.D.		1	1
10335	Bromoform	75-25-2	N.D.		1	1
10335	Bromomethane	74-83-9	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		1	1
10335	Chlorobenzene	108-90-7	N.D.		0.8	1
10335	Chloroethane	75-00-3	N.D.		1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.		0.8	1
10335	Chloromethane	74-87-3	N.D.		1	1
10335	Dibromochloromethane	124-48-1	N.D.		1	1
10335	1,1-Dichloroethane	75-34-3	3	J	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.		1	1
10335	1,1-Dichloroethene	75-35-4	69		0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	4	J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10335	Ethylbenzene	100-41-4	N.D.		0.8	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10335	Tetrachloroethene	127-18-4	4	J	0.8	1
10335	Toluene	108-88-3	N.D.		0.7	1
10335	1,1,1-Trichloroethane	71-55-6	13		0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10335	Trichloroethene	79-01-6	170		1	1
10335	Trichlorofluoromethane	75-69-4	N.D.		2	1
10335	Vinyl Chloride	75-01-4	N.D.		1	1
10335	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	
06008	Vinyl Chloride	75-01-4	0.049	J	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

Sample Description: RI-20S0510130940 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054288
LLI Group # 1389513
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/10/2013 09:40 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RI20S SDG#: BAE63-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131371AA	05/17/2013 14:59	Angela D Sneeringer	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E131371AA	05/17/2013 13:30	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E131371AA	05/17/2013 13:30	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y131371AA	05/17/2013 14:59	Angela D Sneeringer	1

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Analysis Report

Sample Description: W-40510131015 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054289
LLI Group # 1389513
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/10/2013 10:15 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W---4 SDG#: BAE63-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	79	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	660	10	10
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131371AA	05/17/2013 15:19	Angela D Sneeringer	1
10335	PPL 8260 Water	SW-846 8260B	1	Y131371AA	05/17/2013 17:03	Angela D Sneeringer	10

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Analysis Report

Sample Description: W-40510131015 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054289
LLI Group # 1389513
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/10/2013 10:15 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W---4 SDG#: BAE63-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131371AA	05/17/2013 15:19	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y131371AA	05/17/2013 17:03	Angela D Sneeringer	10

Sample Description: RI-300510131045 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054290
LLI Group # 1389513
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/10/2013 10:45 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RI-30 SDG#: BAE63-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131371AA	05/17/2013 15:41	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131371AA	05/17/2013 15:41	Angela D Sneeringer	1

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Analysis Report

Sample Description: RI-310510131115 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054291
LLI Group # 1389513
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/10/2013 11:15 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RI-31 SDG#: BAE63-07

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acrolein	107-02-8	N.D.		40	1
10335	Acrylonitrile	107-13-1	N.D.		4	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromodichloromethane	75-27-4	N.D.		1	1
10335	Bromoform	75-25-2	N.D.		1	1
10335	Bromomethane	74-83-9	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		1	1
10335	Chlorobenzene	108-90-7	N.D.		0.8	1
10335	Chloroethane	75-00-3	N.D.		1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.		0.8	1
10335	Chloromethane	74-87-3	N.D.		1	1
10335	Dibromochloromethane	124-48-1	N.D.		1	1
10335	1,1-Dichloroethane	75-34-3	N.D.		1	1
10335	1,2-Dichloroethane	107-06-2	N.D.		1	1
10335	1,1-Dichloroethene	75-35-4	N.D.		0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	150		0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	2	J	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10335	Ethylbenzene	100-41-4	N.D.		0.8	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10335	Tetrachloroethene	127-18-4	0.9	J	0.8	1
10335	Toluene	108-88-3	N.D.		0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.		0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10335	Trichloroethene	79-01-6	890		10	10
10335	Trichlorofluoromethane	75-69-4	N.D.		2	1
10335	Vinyl Chloride	75-01-4	N.D.		1	1
10335	Xylene (Total)	1330-20-7	N.D.		0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131371AA	05/17/2013 16:02	Angela D Sneeringer	1
10335	PPL 8260 Water	SW-846 8260B	1	Y131371AA	05/17/2013 17:24	Angela D Sneeringer	10

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Analysis Report

Sample Description: RI-310510131115 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054291
LLI Group # 1389513
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/10/2013 11:15 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RI-31 SDG#: BAE63-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131371AA	05/17/2013 16:02	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y131371AA	05/17/2013 17:24	Angela D Sneeringer	10

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Analysis Report

Sample Description: PW-9A0510131200 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054292
LLI Group # 1389513
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/10/2013 12:00 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-9A SDG#: BAE63-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	23	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	2 J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	14	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	0.027 J	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

Sample Description: PW-9A0510131200 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054292
LLI Group # 1389513
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/10/2013 12:00 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-9A SDG#: BAE63-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131371AA	05/17/2013 16:22	Angela D Sneeringer	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E131371AA	05/17/2013 13:50	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E131371AA	05/17/2013 13:50	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y131371AA	05/17/2013 16:22	Angela D Sneeringer	1

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Analysis Report

Sample Description: PW-9B0510131225 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054293
LLI Group # 1389513
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/10/2013 12:25 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-9B SDG#: BAE63-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	2 J	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	110	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	15	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	4 J	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	55	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	0.065	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

Sample Description: PW-9B0510131225 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054293
LLI Group # 1389513
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/10/2013 12:25 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-9B SDG#: BAE63-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131371AA	05/17/2013 16:43	Angela D Sneeringer	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E131371AA	05/17/2013 14:10	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E131371AA	05/17/2013 14:10	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y131371AA	05/17/2013 16:43	Angela D Sneeringer	1

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Analysis Report

Sample Description: Field_Blank0510131025 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054294
LLI Group # 1389513
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/10/2013 10:25 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

FIELD SDG#: BAE63-10FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	N.D.	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

Sample Description: Field_Blank0510131025 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054294
LLI Group # 1389513
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/10/2013 10:25 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

FIELD SDG#: BAE63-10FB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131371AA	05/17/2013 10:49	Angela D Sneeringer	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E131371AA	05/17/2013 10:10	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E131371AA	05/17/2013 10:10	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y131371AA	05/17/2013 10:49	Angela D Sneeringer	1

Sample Description: Rinsate_Blank0510131035 Grab Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054295
LLI Group # 1389513
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/10/2013 10:35 by DZ

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RINSE SDG#: BAE63-11RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131371AA	05/17/2013 11:10	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131371AA	05/17/2013 11:10	Angela D Sneeringer	1

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Analysis Report

Sample Description: TB050713 Water
1863 / BAE-Lansdale, PA

LLI Sample # WW 7054296
LLI Group # 1389513
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/07/2013

Submitted: 05/13/2013 17:50
Reported: 05/21/2013 18:59

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

TRIP- SDG#: BAE63-12TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y131371AA	05/17/2013 11:30	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y131371AA	05/17/2013 11:30	Angela D Sneeringer	1

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1389513
Reported: 05/21/13 at 06:59 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: E131371AA	Sample number(s): 7054287-7054288,7054292-7054294							
Vinyl Chloride	N.D.	0.010	ug/l	87	87	70-130	0	30
Batch number: Y131371AA	Sample number(s): 7054285-7054296							
Acrolein	N.D.	40.	ug/l	95	101	46-146	6	30
Acrylonitrile	N.D.	4.	ug/l	103	106	61-130	3	30
Benzene	N.D.	0.5	ug/l	103	106	77-121	3	30
Bromodichloromethane	N.D.	1.	ug/l	106	109	73-120	2	30
Bromoform	N.D.	1.	ug/l	109	112	61-120	3	30
Bromomethane	N.D.	1.	ug/l	99	94	51-120	4	30
Carbon Tetrachloride	N.D.	1.	ug/l	112	114	65-137	2	30
Chlorobenzene	N.D.	0.8	ug/l	106	109	80-120	2	30
Chloroethane	N.D.	1.	ug/l	92	88	60-120	5	30
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	93	101	52-127	9	30
Chloroform	N.D.	0.8	ug/l	110	111	77-122	1	30
Chloromethane	N.D.	1.	ug/l	93	89	54-123	4	30
Dibromochloromethane	N.D.	1.	ug/l	110	112	72-120	2	30
1,1-Dichloroethane	N.D.	1.	ug/l	107	109	79-120	2	30
1,2-Dichloroethane	N.D.	1.	ug/l	116	120	64-130	3	30
1,1-Dichloroethene	N.D.	0.8	ug/l	113	114	76-124	1	30
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	107	108	80-120	1	30
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	109	111	80-120	2	30
1,2-Dichloropropane	N.D.	1.	ug/l	105	108	80-120	3	30
cis-1,3-Dichloropropene	N.D.	1.	ug/l	99	103	78-120	5	30
trans-1,3-Dichloropropene	N.D.	1.	ug/l	91	95	66-124	4	30
Ethylbenzene	N.D.	0.8	ug/l	102	104	79-120	2	30
Methylene Chloride	N.D.	2.	ug/l	110	110	84-118	0	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	102	107	70-129	4	30
Tetrachloroethene	N.D.	0.8	ug/l	111	113	79-120	2	30
Toluene	N.D.	0.7	ug/l	101	104	79-120	2	30
1,1,1-Trichloroethane	N.D.	0.8	ug/l	95	97	66-126	3	30
1,1,2-Trichloroethane	N.D.	0.8	ug/l	108	112	80-120	3	30
Trichloroethene	N.D.	1.	ug/l	107	109	80-120	2	30
Trichlorofluoromethane	N.D.	2.	ug/l	111	105	65-130	6	30
Vinyl Chloride	N.D.	1.	ug/l	93	89	63-120	4	30
Xylene (Total)	N.D.	0.8	ug/l	105	107	77-120	2	30

Surrogate Quality Control

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1389513
Reported: 05/21/13 at 06:59 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Waters by SIMS 8260B
Batch number: E131371AA

	Dibromofluoromethane
7054287	97
7054288	97
7054292	97
7054293	97
7054294	97
Blank	98
LCS	96
LCSD	97
Limits:	80-120

Analysis Name: 8260 VOCs
Batch number: Y131371AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7054285	109	105	96	86
7054286	110	106	97	86
7054287	110	105	97	86
7054288	110	106	97	86
7054289	110	105	98	86
7054290	111	105	96	87
7054291	110	106	96	86
7054292	111	106	96	86
7054293	111	106	97	86
7054294	103	102	98	89
7054295	105	103	97	87
7054296	107	104	96	87
Blank	105	102	98	90
LCS	104	106	100	97
LCSD	102	105	99	96
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

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Acct. # 7039 For Eurofins Lancaster Laboratories use only Group # 138953 Sample # 7054285-96

Instructions on reverse side correspond with circled numbers.

COC #329 193

For Lab Use Only
FSC:
SCR#: 138 187

1 Client Information

Client: Environmental Alliance	Acct. #:
Project Name/#: Former BAE/1863	PWSID #:
Project Manager: JASON EARLY	P.O. #:
Sampler: Derek Zak	Quote #:
Name of state where samples were collected: PA	

4 Matrix: Soil ☐ Sediment ☐ Water: Potable ☐ Ground ☐ NPDES ☐ Surface ☐ Other:

5 Analysis Requested — Preservation Codes: H H

Preservation Codes: H=HCl, N=HNO_3, S=H_2SO_4, T=Thiosulfate, B=NaOH, O=Other

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Other	Total # of Containers	8260 Std. Water master	Water by SIM 8260B
PW-2 DUP	05/09/13	1325	✓			✓		3	X	
FOX MW-5	05/09/13	1415	✓			✓		3	X	
PW-10A	05/10/13	0850	✓			✓		6	X	X
RI-20S	05/10/13	0940	✓			✓		6	X	X
W-4	05/10/13	1015	✓			✓			X	
RI-30	05/10/13	1045	✓			✓			X	
RI-31	05/10/13	1115	✓			✓			X	
PW-9A	05/10/13	1200	✓			✓		6	X	X
PW-9B	05/10/13	1225	✓			✓		6	X	X
FIELD BLANK	05/10/13	1025				✓		6	X	X

7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: _____

E-mail address: _____

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

Type IV (CLP SOW) MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
Bott Storage	5-2-13	1000	Derek Zak	05/07/13	0600
Derek Zak	05/13/13	0415	Mark Denlinger	5/13/13	1100
Mark Denlinger	5-13-13	1750			

9

EDD Required? Yes No

If yes, format: EZ-EDD

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____

Temperature upon receipt 0.5-1.0 °C

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The white copy should accompany samples to Eurofins Lancaster Laboratories. The yellow copy should be retained by the client.
Issued by Dept. 40 Management
Page 24 of 27

1-c

Environmental Analysis Request/Chain of Custody

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Acct. # 7039 For Eurofins Lancaster Laboratories use only Group # 1389513 Sample # 7054285-96

Instructions on reverse side correspond with circled numbers.

COC # 329196

1 Client Information

Client: Environmental Alliance	Acct. #:
Project Name/#: Former BAE/1863	PWSID #:
Project Manager: JASON EARLY	P.O. #:
Sampler: Derek ZAY	Quote #:
Name of state where samples were collected: PA	

2 Sample Identification / **3 Collected**

Sample Identification	Date	Time	Grab	Composite	Soil	Water (Potable / Ground / Surface / NPDES)	Other:	Total # of Containers	8260 Std Water Mastics
RINSATE BLANK	05/10/13	1035				✓		3	X

4 Matrix: Sediment ☐ Soil ☐ Water ☐ Ground ☐ Surface ☐ Potable ☐ NPDES ☐ Other:

5 Analysis Requested — Preservation Codes: H

For Lab Use Only
FSC:
SCR#:

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

6 Remarks

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed:

E-mail address:

8 Data Package Options (circle if required)
Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	05/13/13	0915	Mark Denlinger	5/13/13	1100
Mark Denlinger	5-13-13	1750			
			[signature]	4/13/13	1750

EDD Required? Yes No
If yes, format: EZ-EDD

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS ____ FedEx ____ Other ____

Temperature upon receipt 0.5-1.0 °C

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Environmental Sample Administration Receipt Documentation Log

1389513

Client/Project: Environmental Alliance

Date of Receipt: 5/13/13

Time of Receipt: 1750

Source Code: 01

Shipping Container Sealed: YES NO

Custody Seal Present * : YES NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	0.5	TB	WI	Y	B	
2	↓	1.0	↓	↓	↓	↓	
3	↓	0.6	↓	↓	↓	↓	
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 6

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: [signature] 238 **Date/Time:** 5/13/13 2008

Issued by Dept. 6042 Management

2174.06

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

August 20, 2013

Project: 1863/ BAE - Lansdale, PA

Submittal Date: 08/08/2013
Group Number: 1410173
SDG: BAE67
PO Number: 6799
State of Sample Origin: PA

Client Sample Description	Lancaster Labs (LL) #
PW-9A0806131030 Grab Groundwater	7154998
PW-9B0806131120 Grab Groundwater	7154999
Fox_MW-10806131310 Grab Groundwater	7155000
RI-19S0806131400 Grab Groundwater	7155001
RI-19D0806131440 Grab Groundwater	7155002
RW-20806131550 Grab Groundwater	7155003
RW-30806131745 Grab Groundwater	7155004
W-100807130820 Grab Groundwater	7155005
W-120807130850 Grab Groundwater	7155006
RW-4D0807130950 Grab Groundwater	7155007

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO Environmental Alliance, Inc. Attn: Myrna Klair

Respectfully Submitted,

Megan A. Moeller
Senior Specialist

(717) 556-7261

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Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: PW-9A0806131030 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7154998
LL Group # 1410173
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/06/2013 10:30 by DZ

Submitted: 08/08/2013 15:15
Reported: 08/20/2013 18:43

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW9A- SDG#: BAE67-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	15	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	1 J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	11	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	0.021 J	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: PW-9A0806131030 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7154998
LL Group # 1410173
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/06/2013 10:30 by DZ

Submitted: 08/08/2013 15:15
Reported: 08/20/2013 18:43

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW9A- SDG#: BAE67-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y132241AA	08/12/2013 14:57	Angela D Sneeringer	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E132271AA	08/15/2013 14:52	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y132241AA	08/12/2013 14:57	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E132271AA	08/15/2013 14:52	Jason M Long	1

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Analysis Report

Sample Description: PW-9B0806131120 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7154999
LL Group # 1410173
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/06/2013 11:20 by DZ

Submitted: 08/08/2013 15:15
Reported: 08/20/2013 18:43

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW9B- SDG#: BAE67-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	2 J	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	110	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	16	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	5	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	58	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	0.051	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

Sample Description: PW-9B0806131120 Grab Groundwater 1863/ BAE-Lansdale, PA

LL Sample # WW 7154999
LL Group # 1410173
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/06/2013 11:20 by DZ

Submitted: 08/08/2013 15:15
Reported: 08/20/2013 18:43

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW9B- SDG#: BAE67-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y132241AA	08/12/2013 15:18	Angela D Sneeringer	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E132271AA	08/15/2013 15:13	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y132241AA	08/12/2013 15:18	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E132271AA	08/15/2013 15:13	Jason M Long	1

Sample Description: Fox_MW-10806131310 Grab Groundwater 1863/ BAE-Lansdale, PA

LL Sample # WW 7155000
LL Group # 1410173
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/06/2013 13:10 by DZ

Submitted: 08/08/2013 15:15
Reported: 08/20/2013 18:43

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

FOX-1 SDG#: BAE67-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y132241AA	08/12/2013 15:39	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y132241AA	08/12/2013 15:39	Angela D Sneeringer	1

Sample Description: RI-19S0806131400 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7155001
LL Group # 1410173
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/06/2013 14:00 by DZ

Submitted: 08/08/2013 15:15
Reported: 08/20/2013 18:43

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RI19S SDG#: BAE67-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y132241AA	08/12/2013 15:59	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y132241AA	08/12/2013 15:59	Angela D Sneeringer	1

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: RI-19D0806131440 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7155002
LL Group # 1410173
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/06/2013 14:40 by DZ

Submitted: 08/08/2013 15:15
Reported: 08/20/2013 18:43

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RI19D SDG#: BAE67-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y132241AA	08/12/2013 16:20	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y132241AA	08/12/2013 16:20	Angela D Sneeringer	1

Sample Description: RW-20806131550 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7155003
LL Group # 1410173
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/06/2013 15:50 by DZ

Submitted: 08/08/2013 15:15
Reported: 08/20/2013 18:43

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

--RW2 SDG#: BAE67-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y132241AA	08/12/2013 16:41	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y132241AA	08/12/2013 16:41	Angela D Sneeringer	1

Sample Description: RW-30806131745 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7155004
LL Group # 1410173
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/06/2013 17:45 by DZ

Submitted: 08/08/2013 15:15
Reported: 08/20/2013 18:43

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

--RW3 SDG#: BAE67-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y132241AA	08/12/2013 17:02	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y132241AA	08/12/2013 17:02	Angela D Sneeringer	1

Sample Description: W-100807130820 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7155005
LL Group # 1410173
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/07/2013 08:20 by DZ

Submitted: 08/08/2013 15:15
Reported: 08/20/2013 18:43

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

--W10 SDG#: BAE67-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y132241AA	08/12/2013 17:23	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y132241AA	08/12/2013 17:23	Angela D Sneeringer	1

Sample Description: W-120807130850 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7155006
LL Group # 1410173
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/07/2013 08:50 by DZ

Submitted: 08/08/2013 15:15
Reported: 08/20/2013 18:43

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

--W12 SDG#: BAE67-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y132241AA	08/12/2013 17:44	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y132241AA	08/12/2013 17:44	Angela D Sneeringer	1

Sample Description: RW-4D0807130950 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7155007
LL Group # 1410173
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/07/2013 09:50 by DZ

Submitted: 08/08/2013 15:15
Reported: 08/20/2013 18:43

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RW-4D SDG#: BAE67-10*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	1 J	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	Y132241AA	08/12/2013 18:05	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y132241AA	08/12/2013 18:05	Angela D Sneeringer	1

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1410173
Reported: 08/20/13 at 06:43 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: E132271AA	Sample number(s): 7154998-7154999							
Vinyl Chloride	N.D.	0.010	ug/l	80	80	70-130	0	30
Batch number: Y132241AA	Sample number(s): 7154998-7155007							
Acrolein	N.D.	40.	ug/l	94		46-146		
Acrylonitrile	N.D.	4.	ug/l	93		61-130		
Benzene	N.D.	0.5	ug/l	106		77-121		
Bromodichloromethane	N.D.	1.	ug/l	113		73-120		
Bromoform	N.D.	1.	ug/l	114		61-120		
Bromomethane	N.D.	1.	ug/l	109		51-120		
Carbon Tetrachloride	N.D.	1.	ug/l	123		65-137		
Chlorobenzene	N.D.	0.8	ug/l	112		80-120		
Chloroethane	N.D.	1.	ug/l	103		60-120		
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	109		52-127		
Chloroform	N.D.	0.8	ug/l	115		77-122		
Chloromethane	N.D.	1.	ug/l	98		54-123		
Dibromochloromethane	N.D.	1.	ug/l	109		72-120		
1,1-Dichloroethane	N.D.	1.	ug/l	107		79-120		
1,2-Dichloroethane	N.D.	1.	ug/l	119		64-130		
1,1-Dichloroethene	N.D.	0.8	ug/l	117		76-124		
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	110		80-120		
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	115		80-120		
1,2-Dichloropropane	N.D.	1.	ug/l	106		80-120		
cis-1,3-Dichloropropene	N.D.	1.	ug/l	112		78-120		
trans-1,3-Dichloropropene	N.D.	1.	ug/l	102		66-124		
Ethylbenzene	N.D.	0.8	ug/l	103		79-120		
Methylene Chloride	N.D.	2.	ug/l	113		84-118		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	102		70-129		
Tetrachloroethene	N.D.	0.8	ug/l	113		79-120		
Toluene	N.D.	0.7	ug/l	105		79-120		
1,1,1-Trichloroethane	N.D.	0.8	ug/l	110		66-126		
1,1,2-Trichloroethane	N.D.	0.8	ug/l	108		80-120		
Trichloroethene	N.D.	1.	ug/l	113		80-120		
Trichlorofluoromethane	N.D.	2.	ug/l	118		65-130		
Vinyl Chloride	N.D.	1.	ug/l	99		63-120		
Xylene (Total)	N.D.	0.8	ug/l	106		77-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1410173
Reported: 08/20/13 at 06:43 PM

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: Y132241AA	Sample number(s): 7154998-7155007 UNSPK: P153314								
Acrolein	78	83	33-147	6	30				
Acrylonitrile	88	92	43-146	5	30				
Benzene	117	121	72-134	3	30				
Bromodichloromethane	120	122	78-125	2	30				
Bromoform	104	104	48-118	0	30				
Bromomethane	123	126	47-129	2	30				
Carbon Tetrachloride	142*	146*	72-135	3	30				
Chlorobenzene	122	124	87-124	2	30				
Chloroethane	115	120	51-145	4	30				
2-Chloroethyl Vinyl Ether	0*	0*	10-151	0	30				
Chloroform	128	131	81-134	2	30				
Chloromethane	98	124	46-137	23	30				
Dibromochloromethane	107	108	74-116	1	30				
1,1-Dichloroethane	118	120	84-129	2	30				
1,2-Dichloroethane	128	131	68-131	2	30				
1,1-Dichloroethene	132	138	75-155	5	30				
cis-1,2-Dichloroethene	122	124	80-141	1	30				
trans-1,2-Dichloroethene	128	133	81-142	3	30				
1,2-Dichloropropane	114	119	83-124	4	30				
cis-1,3-Dichloropropene	114	117*	70-116	2	30				
trans-1,3-Dichloropropene	101	105	74-119	4	30				
Ethylbenzene	115	118	71-134	2	30				
Methylene Chloride	123	125	78-133	2	30				
1,1,2,2-Tetrachloroethane	105	111	72-128	5	30				
Tetrachloroethene	128	130*	80-128	1	30				
Toluene	118	121	80-125	2	30				
1,1,1-Trichloroethane	127	131	69-140	3	30				
1,1,2-Trichloroethane	116	118	71-141	2	30				
Trichloroethene	129	130	88-133	1	30				
Trichlorofluoromethane	137	146	64-146	6	30				
Vinyl Chloride	109	117	66-133	8	30				
Xylene (Total)	118	121	79-125	2	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Waters by SIMS 8260B
Batch number: E132271AA

	Dibromofluoromethane
7154998	95
7154999	93
Blank	91
LCS	92
LCSD	94
Limits:	80-120

Analysis Name: 8260 VOCs

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1410173
Reported: 08/20/13 at 06:43 PM

Surrogate Quality Control

Batch number: Y132241AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7154998	111	104	98	94
7154999	111	106	97	93
7155000	112	104	97	93
7155001	113	106	95	92
7155002	112	104	95	93
7155003	112	104	96	92
7155004	113	106	96	91
7155005	114	106	96	92
7155006	114	106	96	92
7155007	115	106	97	91
Blank	108	103	98	94
LCS	107	103	100	102
MS	108	106	101	101
MSD	107	105	101	102
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

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For Eurofins Lancaster Laboratories use only
Acct. # 7039 Group # 1410173 Sample # 7154998-5007
Instructions on reverse side correspond with circled numbers.

COC #331034

1 Client Information

Client: Environmental Alliance	Acct. #:
Project Name/#: Former BAE/1863	PWSID #:
Project Manager: Chris Thoeny/Chris Hsue	P.O. #: 6799
Sampler: Derek Zay	Quote #:
Name of state where samples were collected: PA	

4 Matrix: Sediment ☐ Soil ☐ Ground ☑ Surface ☐ Potable ☐ NPDES ☐ Water ☐ Other: ____

5 Analysis Requested — Preservation Codes

For Lab Use Only
FSC:
SCR#: 1420260

Preservation Codes: H=HCl, T=Thiosulfate, N=HNO_3, B=NaOH, S=H_2SO_4, O=Other

2 Sample Identification / **3 Collected**

Sample Identification	Date	Time	Grab	Composite	Soil	Water	Other	Total # of Containers	Voc's 8260 (#)	8260B SIM method (#)									6 Remarks
PW-9A	08/06/13	1030	✓			✓		6	X	X									MORE SAmples
PW-9B	08/06/13	1120	✓			✓		6	X	X									TO FAllow
Fox MW-1	08/06/13	1310	✓			✓		3	X										
RI-19S	08/06/13	1400	✓			✓		3	X										
RI-19D	08/06/13	1440	✓			✓		3	X										
RW-2	08/06/13	1550	✓			✓		3	X										
RW-3	08/06/13	1745	✓			✓		3	X										
W-10	08/07/13	0820	✓			✓		3	X										
W-12	08/07/13	0850	✓			✓		3	X										
RW-4D	08/07/13	0950	✓			✓		3	X										

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZ-EDD

E-mail address:

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
Bottle Storage	7-30-13	0830	Mark Danlinger	7-30-13	0830
Mark Danlinger	7-30-13	1100	[signature]	08/06/13	0630
[signature]	08/08/13	1330	[signature]	08/08/13	1330
[signature]	08/08/13	1515			
			[signature]	8/8/13	1515

EDD Required? Yes No
If yes, format: EZ-EDD

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____

Temperature upon receipt 2.2-3.7°C

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Environmental Sample Administration Receipt Documentation Log

1410173

Client/Project: Environmental Alliance

Date of Receipt: 8/8/13

Time of Receipt: 1515

Source Code: 01

Shipping Container Sealed: YES NO

Custody Seal Present * : YES NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	2.2°	TB	WI	Y	B	
2	↓	3.7°	↓	↓	↓	↓	
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Fox MW-1 time= 1305

2 vials of RW-4D labeled RW-5D 8/7/13 950

Unpacker Signature/Emp#: 2308 **Date/Time:** 8/8/13 1619

Issued by Dept. 6042 Management

2174.06

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

August 14, 2013

Project: 1863/ BAE - Lansdale, PA

Submittal Date: 08/08/2013
Group Number: 1410174
SDG: BAE68
PO Number: 6799
State of Sample Origin: PA

Client Sample Description	Lancaster Labs (LL) #
RW-4I0807131025 Grab Groundwater	7155008
RW-5D0807131120 Grab Groundwater	7155009
RW-5I0807131200 Grab Groundwater	7155010
W-130807131325 Grab Groundwater	7155011
W-170807131400 Grab Groundwater	7155012
Fox_MW-20807131410 Grab Groundwater	7155013
RI-20D0807131500 Grab Groundwater	7155014
PW-7A0807131555 Grab Groundwater	7155015
PW-7B0808130830 Grab Groundwater	7155016
W-140808130915 Grab Groundwater	7155017
W-14DUP0808130915 Grab Groundwater	7155018
PW-6B0808131005 Grab Groundwater	7155019
A-30808130935 Grab Groundwater	7155020
A-140808131015 Grab Groundwater	7155021
A-120808131050 Grab Groundwater	7155022
A-130808131128 Grab Groundwater	7155023
TRIP_BLANK072913 Water	7155024

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO Environmental Alliance, Inc. Attn: Myrna Klair

Respectfully Submitted,

Megan A. Moeller
Senior Specialist

(717) 556-7261

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2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: RW-4I0807131025 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7155008
LL Group # 1410174
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/07/2013 10:25 by DZ

Submitted: 08/08/2013 15:15
Reported: 08/14/2013 20:02

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RW-4I SDG#: BAE68-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	T132231AA	08/11/2013 18:24	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T132231AA	08/11/2013 18:24	Sarah A Guill	1

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Analysis Report

Sample Description: RW-5D0807131120 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7155009
LL Group # 1410174
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/07/2013 11:20 by DZ

Submitted: 08/08/2013 15:15
Reported: 08/14/2013 20:02

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RW-5D SDG#: BAE68-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	T132231AA	08/11/2013 18:48	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T132231AA	08/11/2013 18:48	Sarah A Guill	1

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Analysis Report

Sample Description: RW-5I0807131200 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7155010
LL Group # 1410174
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/07/2013 12:00 by DZ

Submitted: 08/08/2013 15:15
Reported: 08/14/2013 20:02

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RW-5I SDG#: BAE68-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	4 J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	51	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	T132231AA	08/11/2013 19:12	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T132231AA	08/11/2013 19:12	Sarah A Guill	1

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Analysis Report

Sample Description: W-130807131325 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7155011
LL Group # 1410174
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/07/2013 13:25 by DZ

Submitted: 08/08/2013 15:15
Reported: 08/14/2013 20:02

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

--W13 SDG#: BAE68-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	1 J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	2 J	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	T132231AA	08/11/2013 19:37	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T132231AA	08/11/2013 19:37	Sarah A Guill	1

Sample Description: W-170807131400 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7155012
LL Group # 1410174
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/07/2013 14:00 by DZ

Submitted: 08/08/2013 15:15
Reported: 08/14/2013 20:02

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

WW-17 SDG#: BAE68-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	4 J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	8	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	4 J	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	T132231AA	08/11/2013 20:01	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T132231AA	08/11/2013 20:01	Sarah A Guill	1

Sample Description: Fox_MW-20807131410 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7155013
LL Group # 1410174
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/07/2013 14:10 by DZ

Submitted: 08/08/2013 15:15
Reported: 08/14/2013 20:02

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

FOX-2 SDG#: BAE68-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	11	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	11	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	15	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	T132231AA	08/11/2013 20:25	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T132231AA	08/11/2013 20:25	Sarah A Guill	1

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Analysis Report

Sample Description: RI-20D0807131500 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7155014
LL Group # 1410174
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/07/2013 15:00 by DZ

Submitted: 08/08/2013 15:15
Reported: 08/14/2013 20:02

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RW20D SDG#: BAE68-07

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acrolein	107-02-8	N.D.		40	1
10335	Acrylonitrile	107-13-1	N.D.		4	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromodichloromethane	75-27-4	N.D.		1	1
10335	Bromoform	75-25-2	N.D.		1	1
10335	Bromomethane	74-83-9	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		1	1
10335	Chlorobenzene	108-90-7	N.D.		0.8	1
10335	Chloroethane	75-00-3	N.D.		1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.		0.8	1
10335	Chloromethane	74-87-3	N.D.		1	1
10335	Dibromochloromethane	124-48-1	N.D.		1	1
10335	1,1-Dichloroethane	75-34-3	N.D.		1	1
10335	1,2-Dichloroethane	107-06-2	N.D.		1	1
10335	1,1-Dichloroethene	75-35-4	1	J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.		0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10335	Ethylbenzene	100-41-4	N.D.		0.8	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10335	Tetrachloroethene	127-18-4	N.D.		0.8	1
10335	Toluene	108-88-3	N.D.		0.7	1
10335	1,1,1-Trichloroethane	71-55-6	1	J	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10335	Trichloroethene	79-01-6	4	J	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.		2	1
10335	Vinyl Chloride	75-01-4	N.D.		1	1
10335	Xylene (Total)	1330-20-7	N.D.		0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	T132231AA	08/11/2013 20:49	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T132231AA	08/11/2013 20:49	Sarah A Guill	1

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Analysis Report

Sample Description: PW-7A0807131555 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7155015
LL Group # 1410174
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/07/2013 15:55 by DZ

Submitted: 08/08/2013 15:15
Reported: 08/14/2013 20:02

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-7A SDG#: BAE68-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	7	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	T132231AA	08/11/2013 21:13	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T132231AA	08/11/2013 21:13	Sarah A Guill	1

Sample Description: PW-7B0808130830 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7155016
LL Group # 1410174
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/08/2013 08:30 by DZ

Submitted: 08/08/2013 15:15
Reported: 08/14/2013 20:02

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-7B SDG#: BAE68-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	4 J	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	T132231AA	08/11/2013 21:37	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T132231AA	08/11/2013 21:37	Sarah A Guill	1

Sample Description: W-140808130915 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7155017
LL Group # 1410174
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/08/2013 09:15 by DZ

Submitted: 08/08/2013 15:15
Reported: 08/14/2013 20:02

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

--W14 SDG#: BAE68-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	11	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	15	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	8	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	T132231AA	08/11/2013 22:01	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T132231AA	08/11/2013 22:01	Sarah A Guill	1

Sample Description: W-14DUP0808130915 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7155018
LL Group # 1410174
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/08/2013 09:15 by DZ

Submitted: 08/08/2013 15:15
Reported: 08/14/2013 20:02

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W14FD SDG#: BAE68-11FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	11	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	15	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	8	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	T132231AA	08/11/2013 22:26	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T132231AA	08/11/2013 22:26	Sarah A Guill	1

Sample Description: PW-6B0808131005 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7155019
LL Group # 1410174
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/08/2013 10:05 by DZ

Submitted: 08/08/2013 15:15
Reported: 08/14/2013 20:02

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW-6B SDG#: BAE68-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	5 J	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	T132231AA	08/11/2013 22:50	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T132231AA	08/11/2013 22:50	Sarah A Guill	1

Sample Description: A-30808130935 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7155020
LL Group # 1410174
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/08/2013 09:35 by JS

Submitted: 08/08/2013 15:15
Reported: 08/14/2013 20:02

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

---A3 SDG#: BAE68-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	T132231AA	08/11/2013 23:14	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T132231AA	08/11/2013 23:14	Sarah A Guill	1

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Analysis Report

Sample Description: A-140808131015 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7155021
LL Group # 1410174
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/08/2013 10:15 by JS

Submitted: 08/08/2013 15:15
Reported: 08/14/2013 20:02

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

--A14 SDG#: BAE68-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	3 J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	210	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	5 J	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	T132231AA	08/11/2013 23:38	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T132231AA	08/11/2013 23:38	Sarah A Guill	1

Sample Description: A-120808131050 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7155022
LL Group # 1410174
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/08/2013 10:50 by JS

Submitted: 08/08/2013 15:15
Reported: 08/14/2013 20:02

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

--A12 SDG#: BAE68-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	2 J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	11	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	T132231AA	08/12/2013 00:02	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T132231AA	08/12/2013 00:02	Sarah A Guill	1

Sample Description: A-130808131128 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7155023
LL Group # 1410174
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/08/2013 11:28 by JS

Submitted: 08/08/2013 15:15
Reported: 08/14/2013 20:02

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

--A13 SDG#: BAE68-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	3 J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	0.9 J	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	0.8 J	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	28	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	T132231AA	08/12/2013 00:26	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T132231AA	08/12/2013 00:26	Sarah A Guill	1

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Analysis Report

Sample Description: TRIP_BLANK072913 Water
1863/ BAE-Lansdale, PA

LL Sample # WW 7155024
LL Group # 1410174
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 07/29/2013

Submitted: 08/08/2013 15:15
Reported: 08/14/2013 20:02

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

BAETB SDG#: BAE68-17TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	T132231AA	08/12/2013 00:50	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T132231AA	08/12/2013 00:50	Sarah A Guill	1

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1410174
Reported: 08/14/13 at 08:02 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: T132231AA	Sample number(s): 7155008-7155024							
Acrolein	N.D.	40.	ug/l	87	87	46-146	1	30
Acrylonitrile	N.D.	4.	ug/l	109	108	61-130	1	30
Benzene	N.D.	0.5	ug/l	111	110	77-121	1	30
Bromodichloromethane	N.D.	1.	ug/l	104	102	73-120	1	30
Bromoform	N.D.	1.	ug/l	81	80	61-120	1	30
Bromomethane	N.D.	1.	ug/l	98	95	51-120	4	30
Carbon Tetrachloride	N.D.	1.	ug/l	123	119	65-137	4	30
Chlorobenzene	N.D.	0.8	ug/l	97	94	80-120	4	30
Chloroethane	N.D.	1.	ug/l	88	82	60-120	7	30
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	108	107	52-127	0	30
Chloroform	N.D.	0.8	ug/l	117	114	77-122	2	30
Chloromethane	N.D.	1.	ug/l	102	100	54-123	2	30
Dibromochloromethane	N.D.	1.	ug/l	91	88	72-120	3	30
1,1-Dichloroethane	N.D.	1.	ug/l	113	112	79-120	0	30
1,2-Dichloroethane	N.D.	1.	ug/l	118	117	64-130	1	30
1,1-Dichloroethene	N.D.	0.8	ug/l	105	102	76-124	3	30
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	114	111	80-120	2	30
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	118	115	80-120	2	30
1,2-Dichloropropane	N.D.	1.	ug/l	113	114	80-120	1	30
cis-1,3-Dichloropropene	N.D.	1.	ug/l	106	107	78-120	2	30
trans-1,3-Dichloropropene	N.D.	1.	ug/l	92	90	66-124	2	30
Ethylbenzene	N.D.	0.8	ug/l	93	93	79-120	0	30
Methylene Chloride	N.D.	2.	ug/l	112	110	84-118	2	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	98	96	70-129	2	30
Tetrachloroethene	N.D.	0.8	ug/l	94	90	79-120	4	30
Toluene	N.D.	0.7	ug/l	98	95	79-120	3	30
1,1,1-Trichloroethane	N.D.	0.8	ug/l	124	118	66-126	5	30
1,1,2-Trichloroethane	N.D.	0.8	ug/l	98	94	80-120	4	30
Trichloroethene	N.D.	1.	ug/l	112	111	80-120	1	30
Trichlorofluoromethane	N.D.	2.	ug/l	97	92	65-130	5	30
Vinyl Chloride	N.D.	1.	ug/l	93	93	63-120	1	30
Xylene (Total)	N.D.	0.8	ug/l	95	93	77-120	2	30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1410174
Reported: 08/14/13 at 08:02 PM

Surrogate Quality Control

Analysis Name: 8260 VOCs
Batch number: T132231AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7155008	111	105	95	104
7155009	112	107	97	107
7155010	113	107	95	106
7155011	112	105	96	102
7155012	114	107	94	107
7155013	113	109	95	103
7155014	114	106	97	104
7155015	111	105	97	105
7155016	113	106	97	104
7155017	113	106	95	103
7155018	113	105	94	104
7155019	112	108	99	105
7155020	115	106	96	102
7155021	114	107	94	106
7155022	115	107	97	106
7155023	115	108	98	106
7155024	114	107	95	105
Blank	113	109	94	103
LCS	111	107	96	106
LCSD	111	108	94	105
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

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For Eurofins Lancaster Laboratories use only
Acct. # 7039 Group # 1410174 Sample # 7155008-24
Instructions on reverse side correspond with circled numbers.

COC #331035

1 Client Information

Client: Environmental Alliance	Acct. #:
Project Name/#: FORMER BAE/1863	PWSID #:
Project Manager: Chris Thoeny/Chris Hine	P.O. #: 6799
Sampler: Derek ZAY	Quote #:
Name of state where samples were collected: PA	

4 Matrix: Soil ☐ Sediment ☐ Water: Potable ☐ Ground ☑ NPDES ☐ Surface ☐ Other: ____

5 Analysis Requested

Preservation Codes: H

For Lab Use Only
FSC: ____
SCR#: ____

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Other	Total # of Containers	VOC's 8260
RW-4I	08/07/13	1025	✓			✓		3	X
RW-5D	08/07/13	1120	✓			✓		3	X
RW-5I	08/07/13	1200	✓			✓		3	X
W-13	08/07/13	1325	✓			✓		3	X
W-17	08/07/13	1400	✓			✓		3	X
Fox MW-2	08/07/13	1410	✓			✓		3	X
RI-20D	08/07/13	1500	✓			✓		3	X
PW-7A	08/07/13	1555	✓			✓		3	X
PW-7B	08/08/13	0830	✓			✓		3	X
W-14	08/08/13	0915	✓			✓		3	X

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZ-EDD

E-mail address: ____

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	08/08/13	1330	[signature]	08/08/13	1330
[signature]	08/08/13	1515			
			[signature]	8/8/13	1515

EDD Required? Yes No
If yes, format: EZ-EDD

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS ____ FedEx ____ Other ____

Temperature upon receipt 22-3.7°C

Environmental Analysis Request/Chain of Custody

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Acct. # 7039 For Eurofins Lancaster Laboratories use only Group # 1410174 Sample # 7155008-24

Instructions on reverse side correspond with circled numbers.

COC # 331036

1 Client Information

Client: Environmental Alliance	Acct. #:
Project Name/#: Former BAE/1863	PWSID #:
Project Manager: Chris Thoenly / Chris Hine	P.O. #: 6799
Sampler: Derek Zak / John Shannon	Quote #:
Name of state where samples were collected:	

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

2 Sample Identification / **3 Collected** / **4 Matrix** / **5 Analysis Requested** / **6 Remarks**

Sample Identification	Collected Date	Collected Time	Grab	Composite	Soil	Water (Potable / NPDES / Ground / Surface)	Other:	Total # of Containers	VOC's 8260 (H)										Remarks
W-14 DUP	08/08/13	0915	✓			✓		3	X										MORE Samples
PW-6B	08/08/13	1005	✓			✓		3	X										to FAllow
A-3	08/08/13	0935	✓			✓		3	X										By JS
A-14	08/08/13	1015	✓			✓		3	X										By JS
A-12	08/08/13	1050	✓			✓		3	X										By JS
A-13	08/08/13	1128	✓			✓		3	X										By JS
TRIP BLANK	07/29/13		✓			✓		4	X										

7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZ-EDD

E-mail address:

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	08/08/13	1330	[signature]	08/08/13	1330
[signature]	08/08/13	1515			
			[signature]	8/8/13	1515

EDD Required? Yes No

If yes, format: EZ-EDD

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____

Temperature upon receipt 2.2-3.7°C

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Environmental Sample Administration Receipt Documentation Log

1410174

Client/Project: Environmental Alliance

Date of Receipt: 8/8/13

Time of Receipt: 1515

Source Code: 01

Shipping Container Sealed: YES NO

Custody Seal Present* : YES NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	2.2°	TB	WI	Y	B	
2	↓	3.7°	↓	↓	↓	↓	
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Fox MW-1 time= 1305

2 vials of RW-4D labeled RW-5D 8/7/13 950

Unpacker Signature/Emp#: 2308 **Date/Time:** 8/8/13 1619

Issued by Dept. 6042 Management

2174.06

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

August 23, 2013

Project: 1863/ BAE - Lansdale, PA

Submittal Date: 08/15/2013
Group Number: 1411890
SDG: BAE70
PO Number: 6799
State of Sample Origin: PA

Client Sample Description	Lancaster Labs (LL) #
PW-140808131300 Grab Groundwater	7163169
PW-120808131440 Grab Groundwater	7163170
A-110808131250 Grab Groundwater	7163171
A-40808131315 Grab Groundwater	7163172
A-50808131345 Grab Groundwater	7163173
A-60808131415 Grab Groundwater	7163174
A-70808131435 Grab Groundwater	7163175
W-30809130820 Grab Groundwater	7163176
W-80809130900 Grab Groundwater	7163177
PW-10B0809130940 Grab Groundwater	7163178
PW-8B0809131010 Grab Groundwater	7163179
PW-130809131125 Grab Groundwater	7163180
PW-6A0812130815 Grab Groundwater	7163181
PW-40812130900 Grab Groundwater	7163182
PW-50812130915 Grab Groundwater	7163183
Recovery_Well0812131020 Grab Groundwater	7163184
PW-10812131005 Grab Groundwater	7163185
RW-4S0812131120 Grab Groundwater	7163186
PW-30812131210 Grab Groundwater	7163187
PW-20812131220 Grab Groundwater	7163188

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO Environmental Alliance, Inc. Attn: Myrna Klair

Respectfully Submitted,

Megan A. Moeller
Senior Specialist

(717) 556-7261

Sample Description: PW-140808131300 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163169
LL Group # 1411890
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/08/2013 13:00 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/23/2013 08:12

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW14- SDG#: BAE70-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	7	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132321AA	08/20/2013 04:09	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132321AA	08/20/2013 04:09	Christopher G Torres	1

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Analysis Report

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Sample Description: PW-120808131440 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163170
LL Group # 1411890
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/08/2013 14:40 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/23/2013 08:12

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW12- SDG#: BAE70-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	2 J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	2 J	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	13	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132321AA	08/20/2013 04:33	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132321AA	08/20/2013 04:33	Christopher G Torres	1

Sample Description: A-110808131250 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163171
LL Group # 1411890
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/08/2013 12:50 by JS

Submitted: 08/15/2013 18:45
Reported: 08/23/2013 08:12

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

A11-- SDG#: BAE70-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	3 J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	15	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132321AA	08/20/2013 04:57	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132321AA	08/20/2013 04:57	Christopher G Torres	1

Sample Description: A-40808131315 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163172
LL Group # 1411890
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/08/2013 13:15 by JS

Submitted: 08/15/2013 18:45
Reported: 08/23/2013 08:12

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

A4--- SDG#: BAE70-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132321AA	08/20/2013 05:21	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132321AA	08/20/2013 05:21	Christopher G Torres	1

Sample Description: A-50808131345 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163173
LL Group # 1411890
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/08/2013 13:45 by JS

Submitted: 08/15/2013 18:45
Reported: 08/23/2013 08:12

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

A5--- SDG#: BAE70-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132321AA	08/20/2013 05:45	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132321AA	08/20/2013 05:45	Christopher G Torres	1

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Analysis Report

Sample Description: A-60808131415 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163174
LL Group # 1411890
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/08/2013 14:15 by JS

Submitted: 08/15/2013 18:45
Reported: 08/23/2013 08:12

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

A6--- SDG#: BAE70-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	5 J	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132321AA	08/20/2013 06:09	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132321AA	08/20/2013 06:09	Christopher G Torres	1

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Analysis Report

Sample Description: A-70808131435 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163175
LL Group # 1411890
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/08/2013 14:35 by JS

Submitted: 08/15/2013 18:45
Reported: 08/23/2013 08:12

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

A7--- SDG#: BAE70-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	3 J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	11	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132321AA	08/20/2013 06:33	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132321AA	08/20/2013 06:33	Christopher G Torres	1

Sample Description: W-30809130820 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163176
LL Group # 1411890
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/09/2013 08:20 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/23/2013 08:12

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W3--- SDG#: BAE70-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	3 J	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	1 J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	47	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	14	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132321AA	08/20/2013 06:57	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132321AA	08/20/2013 06:57	Christopher G Torres	1

Sample Description: W-80809130900 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163177
LL Group # 1411890
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/09/2013 09:00 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/23/2013 08:12

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W8--- SDG#: BAE70-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	8	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132321AA	08/20/2013 07:21	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132321AA	08/20/2013 07:21	Christopher G Torres	1

Sample Description: PW-10B0809130940 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163178
LL Group # 1411890
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/09/2013 09:40 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/23/2013 08:12

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW10B SDG#: BAE70-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	13	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132321AA	08/20/2013 07:45	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132321AA	08/20/2013 07:45	Christopher G Torres	1

Sample Description: PW-8B0809131010 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163179
LL Group # 1411890
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/09/2013 10:10 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/23/2013 08:12

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW8B- SDG#: BAE70-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	3 J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	2 J	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	14	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132321AA	08/20/2013 08:09	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132321AA	08/20/2013 08:09	Christopher G Torres	1

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Analysis Report

Sample Description: PW-130809131125 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163180
LL Group # 1411890
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/09/2013 11:25 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/23/2013 08:12

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW13- SDG#: BAE70-12

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acrolein	107-02-8	N.D.		40	1
10335	Acrylonitrile	107-13-1	N.D.		4	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromodichloromethane	75-27-4	N.D.		1	1
10335	Bromoform	75-25-2	N.D.		1	1
10335	Bromomethane	74-83-9	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		1	1
10335	Chlorobenzene	108-90-7	N.D.		0.8	1
10335	Chloroethane	75-00-3	N.D.		1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.		0.8	1
10335	Chloromethane	74-87-3	N.D.		1	1
10335	Dibromochloromethane	124-48-1	N.D.		1	1
10335	1,1-Dichloroethane	75-34-3	N.D.		1	1
10335	1,2-Dichloroethane	107-06-2	N.D.		1	1
10335	1,1-Dichloroethene	75-35-4	1	J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	3	J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10335	Ethylbenzene	100-41-4	N.D.		0.8	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10335	Tetrachloroethene	127-18-4	1	J	0.8	1
10335	Toluene	108-88-3	N.D.		0.7	1
10335	1,1,1-Trichloroethane	71-55-6	2	J	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10335	Trichloroethene	79-01-6	20		1	1
10335	Trichlorofluoromethane	75-69-4	N.D.		2	1
10335	Vinyl Chloride	75-01-4	N.D.		1	1
10335	Xylene (Total)	1330-20-7	N.D.		0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132321AA	08/20/2013 08:33	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132321AA	08/20/2013 08:33	Christopher G Torres	1

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Analysis Report

Sample Description: PW-6A0812130815 Grab Groundwater 1863/ BAE-Lansdale, PA

LL Sample # WW 7163181
LL Group # 1411890
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/12/2013 08:15 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/23/2013 08:12

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW6A- SDG#: BAE70-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	2 J	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	12	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	3 J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	13	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132321AA	08/20/2013 08:57	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132321AA	08/20/2013 08:57	Christopher G Torres	1

Sample Description: PW-40812130900 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163182
LL Group # 1411890
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/12/2013 09:00 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/23/2013 08:12

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW4-- SDG#: BAE70-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	12	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132321AA	08/20/2013 09:21	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132321AA	08/20/2013 09:21	Christopher G Torres	1

Sample Description: PW-50812130915 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163183
LL Group # 1411890
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/12/2013 09:15 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/23/2013 08:12

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW5-- SDG#: BAE70-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	14	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132321AA	08/20/2013 09:45	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132321AA	08/20/2013 09:45	Christopher G Torres	1

Sample Description: Recovery_Well0812131020 Grab Groundwater 1863/ BAE-Lansdale, PA

LL Sample # WW 7163184
LL Group # 1411890
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/12/2013 10:20 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/23/2013 08:12

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RWELL SDG#: BAE70-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	6	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	62	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132321AA	08/20/2013 10:09	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132321AA	08/20/2013 10:09	Christopher G Torres	1

Sample Description: PW-10812131005 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163185
LL Group # 1411890
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/12/2013 10:05 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/23/2013 08:12

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW10- SDG#: BAE70-17

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acrolein	107-02-8	N.D.		40	1
10335	Acrylonitrile	107-13-1	N.D.		4	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromodichloromethane	75-27-4	N.D.		1	1
10335	Bromoform	75-25-2	N.D.		1	1
10335	Bromomethane	74-83-9	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		1	1
10335	Chlorobenzene	108-90-7	N.D.		0.8	1
10335	Chloroethane	75-00-3	N.D.		1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.		0.8	1
10335	Chloromethane	74-87-3	N.D.		1	1
10335	Dibromochloromethane	124-48-1	N.D.		1	1
10335	1,1-Dichloroethane	75-34-3	N.D.		1	1
10335	1,2-Dichloroethane	107-06-2	N.D.		1	1
10335	1,1-Dichloroethene	75-35-4	1	J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	3	J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10335	Ethylbenzene	100-41-4	N.D.		0.8	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10335	Tetrachloroethene	127-18-4	0.9	J	0.8	1
10335	Toluene	108-88-3	N.D.		0.7	1
10335	1,1,1-Trichloroethane	71-55-6	2	J	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10335	Trichloroethene	79-01-6	43		1	1
10335	Trichlorofluoromethane	75-69-4	N.D.		2	1
10335	Vinyl Chloride	75-01-4	N.D.		1	1
10335	Xylene (Total)	1330-20-7	N.D.		0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132321AA	08/20/2013 10:32	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132321AA	08/20/2013 10:32	Christopher G Torres	1

Sample Description: RW-4S0812131120 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163186
LL Group # 1411890
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/12/2013 11:20 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/23/2013 08:12

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RW4S- SDG#: BAE70-18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	10	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	69	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132321AA	08/20/2013 10:56	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132321AA	08/20/2013 10:56	Christopher G Torres	1

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Analysis Report

Sample Description: PW-30812131210 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163187
LL Group # 1411890
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/12/2013 12:10 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/23/2013 08:12

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW3-- SDG#: BAE70-19

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acrolein	107-02-8	N.D.		40	1
10335	Acrylonitrile	107-13-1	N.D.		4	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromodichloromethane	75-27-4	N.D.		1	1
10335	Bromoform	75-25-2	N.D.		1	1
10335	Bromomethane	74-83-9	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		1	1
10335	Chlorobenzene	108-90-7	N.D.		0.8	1
10335	Chloroethane	75-00-3	N.D.		1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.		0.8	1
10335	Chloromethane	74-87-3	N.D.		1	1
10335	Dibromochloromethane	124-48-1	N.D.		1	1
10335	1,1-Dichloroethane	75-34-3	N.D.		1	1
10335	1,2-Dichloroethane	107-06-2	N.D.		1	1
10335	1,1-Dichloroethene	75-35-4	0.8	J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	2	J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10335	Ethylbenzene	100-41-4	N.D.		0.8	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10335	Tetrachloroethene	127-18-4	3	J	0.8	1
10335	Toluene	108-88-3	N.D.		0.7	1
10335	1,1,1-Trichloroethane	71-55-6	2	J	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10335	Trichloroethene	79-01-6	38		1	1
10335	Trichlorofluoromethane	75-69-4	N.D.		2	1
10335	Vinyl Chloride	75-01-4	N.D.		1	1
10335	Xylene (Total)	1330-20-7	N.D.		0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132331AA	08/21/2013 16:39	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132331AA	08/21/2013 16:39	Emily R Styer	1

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Analysis Report

Sample Description: PW-20812131220 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163188
LL Group # 1411890
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/12/2013 12:20 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/23/2013 08:12

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

--PW2 SDG#: BAE70-20*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acrolein	107-02-8	N.D.		40	1
10335	Acrylonitrile	107-13-1	N.D.		4	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromodichloromethane	75-27-4	N.D.		1	1
10335	Bromoform	75-25-2	N.D.		1	1
10335	Bromomethane	74-83-9	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		1	1
10335	Chlorobenzene	108-90-7	N.D.		0.8	1
10335	Chloroethane	75-00-3	N.D.		1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.		0.8	1
10335	Chloromethane	74-87-3	N.D.		1	1
10335	Dibromochloromethane	124-48-1	N.D.		1	1
10335	1,1-Dichloroethane	75-34-3	N.D.		1	1
10335	1,2-Dichloroethane	107-06-2	N.D.		1	1
10335	1,1-Dichloroethene	75-35-4	2	J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	4	J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10335	Ethylbenzene	100-41-4	N.D.		0.8	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10335	Tetrachloroethene	127-18-4	3	J	0.8	1
10335	Toluene	108-88-3	N.D.		0.7	1
10335	1,1,1-Trichloroethane	71-55-6	11		0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10335	Trichloroethene	79-01-6	92		1	1
10335	Trichlorofluoromethane	75-69-4	N.D.		2	1
10335	Vinyl Chloride	75-01-4	N.D.		1	1
10335	Xylene (Total)	1330-20-7	N.D.		0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132331AA	08/21/2013 17:03	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132331AA	08/21/2013 17:03	Emily R Styer	1

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1411890
Reported: 08/23/13 at 08:12 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: W132321AA	Sample number(s): 7163169-7163186							
Acrolein	N.D.	40.	ug/l	93	92	46-146	1	30
Acrylonitrile	N.D.	4.	ug/l	74	73	61-130	1	30
Benzene	N.D.	0.5	ug/l	92	95	78-120	2	30
Bromodichloromethane	N.D.	1.	ug/l	101	103	73-120	2	30
Bromoform	N.D.	1.	ug/l	98	98	61-120	1	30
Bromomethane	N.D.	1.	ug/l	98	103	51-120	5	30
Carbon Tetrachloride	N.D.	1.	ug/l	110	110	74-130	0	30
Chlorobenzene	N.D.	0.8	ug/l	101	101	80-120	0	30
Chloroethane	N.D.	1.	ug/l	97	97	45-120	1	30
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	88	89	59-126	1	30
Chloroform	N.D.	0.8	ug/l	108	108	77-122	0	30
Chloromethane	N.D.	1.	ug/l	80	80	55-120	1	30
Dibromochloromethane	N.D.	1.	ug/l	99	100	72-120	1	30
1,1-Dichloroethane	N.D.	1.	ug/l	92	95	80-120	3	30
1,2-Dichloroethane	N.D.	1.	ug/l	118	117	71-130	0	30
1,1-Dichloroethene	N.D.	0.8	ug/l	104	103	76-124	1	30
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	95	99	80-120	4	30
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	103	102	80-120	1	30
1,2-Dichloropropane	N.D.	1.	ug/l	88	86	80-120	2	30
cis-1,3-Dichloropropene	N.D.	1.	ug/l	98	98	80-120	0	30
trans-1,3-Dichloropropene	N.D.	1.	ug/l	98	98	69-120	0	30
Ethylbenzene	N.D.	0.8	ug/l	99	99	79-120	0	30
Methylene Chloride	N.D.	2.	ug/l	96	97	80-120	2	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	85	85	70-120	0	30
Tetrachloroethene	N.D.	0.8	ug/l	108	109	80-120	0	30
Toluene	N.D.	0.7	ug/l	99	98	80-120	1	30
1,1,1-Trichloroethane	N.D.	0.8	ug/l	107	106	66-126	1	30
1,1,2-Trichloroethane	N.D.	0.8	ug/l	96	96	80-120	1	30
Trichloroethene	N.D.	1.	ug/l	105	105	80-120	0	30
Trichlorofluoromethane	N.D.	2.	ug/l	113	112	65-130	1	30
Vinyl Chloride	N.D.	1.	ug/l	89	91	63-120	2	30
Xylene (Total)	N.D.	0.8	ug/l	101	100	80-120	1	30
Batch number: W132331AA	Sample number(s): 7163187-7163188							
Acrolein	N.D.	40.	ug/l	91	88	46-146	3	30
Acrylonitrile	N.D.	4.	ug/l	72	73	61-130	1	30
Benzene	N.D.	0.5	ug/l	95	94	78-120	1	30
Bromodichloromethane	N.D.	1.	ug/l	110	112	73-120	2	30
Bromoform	N.D.	1.	ug/l	107	105	61-120	2	30
Bromomethane	N.D.	1.	ug/l	105	109	51-120	4	30
Carbon Tetrachloride	N.D.	1.	ug/l	124	125	74-130	1	30
Chlorobenzene	N.D.	0.8	ug/l	105	103	80-120	1	30
Chloroethane	N.D.	1.	ug/l	98	102	45-120	3	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1411890
Reported: 08/23/13 at 08:12 AM

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	89	92	59-126	3	30
Chloroform	N.D.	0.8	ug/l	116	116	77-122	0	30
Chloromethane	N.D.	1.	ug/l	75	77	55-120	2	30
Dibromochloromethane	N.D.	1.	ug/l	105	107	72-120	2	30
1,1-Dichloroethane	N.D.	1.	ug/l	97	98	80-120	1	30
1,2-Dichloroethane	N.D.	1.	ug/l	128	129	71-130	0	30
1,1-Dichloroethene	N.D.	0.8	ug/l	105	109	76-124	3	30
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	100	102	80-120	2	30
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	105	106	80-120	1	30
1,2-Dichloropropane	N.D.	1.	ug/l	87	88	80-120	1	30
cis-1,3-Dichloropropene	N.D.	1.	ug/l	99	102	80-120	3	30
trans-1,3-Dichloropropene	N.D.	1.	ug/l	104	106	69-120	1	30
Ethylbenzene	N.D.	0.8	ug/l	102	102	79-120	0	30
Methylene Chloride	N.D.	2.	ug/l	101	98	80-120	2	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	85	83	70-120	2	30
Tetrachloroethene	N.D.	0.8	ug/l	120	113	80-120	6	30
Toluene	N.D.	0.7	ug/l	98	99	80-120	1	30
1,1,1-Trichloroethane	N.D.	0.8	ug/l	112	116	66-126	3	30
1,1,2-Trichloroethane	N.D.	0.8	ug/l	97	95	80-120	2	30
Trichloroethene	N.D.	1.	ug/l	110	110	80-120	1	30
Trichlorofluoromethane	N.D.	2.	ug/l	132*	133*	65-130	1	30
Vinyl Chloride	N.D.	1.	ug/l	88	89	63-120	2	30
Xylene (Total)	N.D.	0.8	ug/l	103	103	80-120	0	30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 VOCs
Batch number: W132321AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7163169	106	103	95	98
7163170	108	100	95	96
7163171	107	105	94	97
7163172	108	101	95	98
7163173	106	103	95	96
7163174	108	102	94	95
7163175	110	102	95	96
7163176	108	103	95	96
7163177	111	104	94	96
7163178	108	101	96	98
7163179	111	104	95	97
7163180	109	101	94	98
7163181	110	101	94	96
7163182	110	106	94	96
7163183	109	100	94	96
7163184	112	99	94	94
7163185	111	102	94	95

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1411890
Reported: 08/23/13 at 08:12 AM

Surrogate Quality Control

7163186	112	104	95	95
Blank	105	104	95	97
LCS	105	103	99	103
LCSD	104	100	98	104
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 VOCs
Batch number: W132331AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7163187	110	103	94	96
7163188	110	103	94	97
Blank	108	104	95	98
LCS	107	102	98	103
LCSD	109	102	97	103
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

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Acct. # 7039 For Eurofins Lancaster Laboratories use only Group # 1411890 Sample # 7163169-88

Instructions on reverse side correspond with circled numbers.

COC #331037

1 Client Information

Client: ENVIRONMENTAL ALLIANCE

Acct. #:

Project Name/#: FORMER BAE/1863

PWSID #:

Project Manager: Chris Thoeny / Chris Hine

P.O. #: 6799

Sampler: DZ Derek Zay/JS

Quote #:

Name of state where samples were collected: PA

4 Matrix: Sediment ☐ Soil ☐ Water: Ground ☒ Potable ☐ Surface ☐ NPDES ☐ Other:

5 Analysis Requested — Preservation Codes: VOC's 8260 std water master H

For Lab Use Only
FSC:
SCR#:

Preservation Codes: H=HCl, T=Thiosulfate, N=HNO_3, B=NaOH, S=H_2SO_4, O=Other

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Other	Total # of Containers	VOC's 8260 std water master H									6 Remarks
~~[illegible]~~ DZ PW-14	08/08/13	1300	✓			✓		3	X									
~~[illegible]~~ DZ PW-12	08/08/13	1440	✓			✓		3	X									
A-11	08/08/13	1250	✓			✓		3	X									By JS
A-4	08/08/13	1315	✓			✓		3	X									By JS
A-5	08/08/13	1345	✓			✓		3	X									By JS
~~A-7~~ DZ A-6	08/08/13	1415	✓			✓		3	X									By JS
A-7	08/08/13	1435	✓			✓		3	X									By JS
W-3	08/09/13	0820	✓			✓		3	X									
W-8	08/09/13	0900	✓			✓		3	X									
PW-10B	08/09/13	0940	✓			✓		3	X									

7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZ-EDD

E-mail address:

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	08/15/13	1130	Mark Denlinger	8/15/13	1222
Mark Denlinger	8-15-13	1845			
			[signature]	8/15/13	1845

EDD Required? Yes No
If yes, format: EZ-EDD

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____

Temperature upon receipt 0.7-1.0 °C

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 7039 For Eurofins Lancaster Laboratories use only Group # 1411890 Sample # 7163169-88
Instructions on reverse side correspond with circled numbers.

COC #331038

1 Client Information

Client: ENVIRONMENTAL ALLIANCE
Acct. #:
Project Name/#: FORMER BAE / 1863
PWSID #:
Project Manager: Chris Thoeny / Chris Hinz
P.O. #: 6799
Sampler: Derek ZAK
Quote #:
Name of state where samples were collected: PA

4 Matrix

Sediment ☐ Soil ☐ Ground ☒ Surface ☐ Potable ☐ NPDES ☐ Water ☐ Other: ____

5 Analysis Requested

Preservation Codes: H

VOC's 8260 STD. Water Mast

For Lab Use Only
FSC:
SCR#:

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Sediment	Soil	Ground	Surface	Potable	NPDES	Water	Other	Total # of Containers	VOC's 8260 STD. Water Mast
PW-8B	08/09/13	1010	✓								✓		3	X
PW-13	08/09/13	1125	✓								✓		3	X
PW-6A	08/12/13	0815	✓								✓		3	X
PW-4	08/12/13	0900	✓								✓		3	X
PW-5	08/12/13	0915	✓								✓		3	X
Recovery well	08/12/13	1020	✓								✓		3	X
PW-1	08/12/13	1005	✓								✓		3	X
RW-4S	08/12/13	1120	✓								✓		3	X
PW-3	08/12/13	1210	✓								✓		3	X
PW-2	08/12/13	1220	✓								✓		3	X

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZ-EDD

E-mail address:

8 Data Package Options (circle if required)
Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
[signature]	08/15/13	1130	Mark Denlinger	8/15/13	1220
Mark Denlinger	8-15-13	1845			
			[signature]	8/15/13	1845

9

EDD Required? Yes No
If yes, format: EZ-EDD
Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS ____ FedEx ____ Other ____
Temperature upon receipt 0.7-1.0 °C

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Environmental Sample Administration Receipt Documentation Log

1411890

Client/Project: Environmental Alliance

Date of Receipt: 8/15/13

Time of Receipt: 1845

Source Code: 01

Shipping Container Sealed: (YES) NO

Custody Seal Present * : (YES) NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: (Chilled) Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	1.0	TB	WI	Y	B	
2	↓	0.7	↓	↓	↓	↓	
3	↓	0.7	↓	↓	↓	↓	
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Received 1 metals batch QC bottle for RW-1 (10 containers)

Unpacker Signature/Emp#: [signature] 2308 **Date/Time:** 8/15/13 2144

Issued by Dept. 6042 Management

2174.06

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

August 27, 2013

Project: 1863/ BAE - Lansdale, PA

Submittal Date: 08/15/2013
Group Number: 1411891
SDG: BAE71
PO Number: 6799
State of Sample Origin: PA

Client Sample Description	Lancaster Labs (LL) #
PW-5DUP0812130915 Grab Groundwater	7163189
FoxMW-50812131320 Grab Groundwater	7163190
A-80813131000 Grab Groundwater	7163191
A-90813131025 Grab Groundwater	7163192
A-20813131105 Grab Groundwater	7163193
W-40813131205 Grab Groundwater	7163194
RW-5S0813131300 Grab Groundwater	7163195
RI-310813131345 Grab Groundwater	7163196
W-160814130835 Grab Groundwater	7163197
W-10814130930 Grab Groundwater	7163198
RW-10814130945 Grab Groundwater	7163199
PW-8A0814131025 Grab Groundwater	7163200
PW-110814131100 Grab Groundwater	7163201
PW-10A0814131210 Grab Groundwater	7163202
RI-20S0814131300 Grab Groundwater	7163203
TRIP_BLANK072913 Water	7163204

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO Environmental Alliance, Inc. Attn: Myrna Klair

Respectfully Submitted,

Megan A. Moeller
Senior Specialist

(717) 556-7261

Sample Description: PW-5DUP0812130915 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163189
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/12/2013 09:15 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW5FD SDG#: BAE71-01FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	14	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132331AA	08/21/2013 17:27	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132331AA	08/21/2013 17:27	Emily R Styer	1

Sample Description: FoxMW-50812131320 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163190
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/12/2013 13:20 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

FOX-5 SDG#: BAE71-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	15	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	1 J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	2 J	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	14	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	93	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132331AA	08/21/2013 17:51	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132331AA	08/21/2013 17:51	Emily R Styer	1

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Analysis Report

Sample Description: A-80813131000 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163191
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/13/2013 10:00 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

A8--- SDG#: BAE71-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132331AA	08/21/2013 18:14	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132331AA	08/21/2013 18:14	Emily R Styer	1

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Analysis Report

Sample Description: A-90813131025 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163192
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/13/2013 10:25 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

A9--- SDG#: BAE71-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132331AA	08/21/2013 18:38	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132331AA	08/21/2013 18:38	Emily R Styer	1

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Analysis Report

Sample Description: A-20813131105 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163193
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/13/2013 11:05 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

A2--- SDG#: BAE71-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132331AA	08/21/2013 19:02	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132331AA	08/21/2013 19:02	Emily R Styer	1

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Analysis Report

Sample Description: W-40813131205 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163194
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/13/2013 12:05 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W4--- SDG#: BAE71-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	65	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	580	10	10
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132331AA	08/21/2013 19:26	Emily R Styer	1
10335	PPL 8260 Water	SW-846 8260B	1	W132341AA	08/22/2013 12:09	Christopher G Torres	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132331AA	08/21/2013 19:26	Emily R Styer	1

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Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: W-40813131205 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163194
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/13/2013 12:05 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W4--- SDG#: BAE71-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W132341AA	08/22/2013 12:09	Christopher G Torres	10

Sample Description: RW-5S0813131300 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163195
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/13/2013 13:00 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RW5S- SDG#: BAE71-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	1 J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	83	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	1 J	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	1,200	10	10
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132331AA	08/21/2013 19:50	Emily R Styer	1
10335	PPL 8260 Water	SW-846 8260B	1	W132331AA	08/21/2013 20:14	Emily R Styer	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132331AA	08/21/2013 19:50	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W132331AA	08/21/2013 20:14	Emily R Styer	10

Sample Description: RI-310813131345 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163196
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/13/2013 13:45 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RI31- SDG#: BAE71-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	150	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	1 J	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	1,000	10	10
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132331AA	08/21/2013 20:38	Emily R Styer	1
10335	PPL 8260 Water	SW-846 8260B	1	W132341AA	08/22/2013 12:33	Christopher G Torres	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132331AA	08/21/2013 20:38	Emily R Styer	1

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Analysis Report

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Sample Description: RI-310813131345 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163196
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/13/2013 13:45 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RI31- SDG#: BAE71-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W132341AA	08/22/2013 12:33	Christopher G Torres	10

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Analysis Report

Sample Description: W-160814130835 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163197
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 08:35 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W16-- SDG#: BAE71-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
01754	Iron	7439-89-6	3.02	0.0430	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	34.7	1.5	5
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	3.1	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
	EPA 415.1 modified		**mg/l**	**mg/l**	
07547	Dissolved Organic Carbon	n.a.	N.D.	0.50	1
	SM 5310 C-2000		**mg/l**	**mg/l**	
00273	Total Organic Carbon	n.a.	N.D.	0.50	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity	n.a.	185	0.70	1
12707	Phenolphthalein Alkalinity	n.a.	N.D.	0.70	1
	SM 4500-S2 D-2000		**mg/l**	**mg/l**	
00230	Sulfide	18496-25-8	N.D.	0.054	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	132281848010	08/24/2013 20:00	John P Hook	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848010	08/19/2013 16:05	Kevin C Piaskowski	1
00228	Sulfate	EPA 300.0	1	13231347901B	08/19/2013 12:18	Sandra J Miller	5
00220	Nitrate Nitrogen	EPA 353.2	1	13232106101B	08/20/2013 13:37	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	13228105101A	08/16/2013 07:43	K Robert Caulfeild-James	1
07547	Dissolved Organic Carbon	EPA 415.1 modified	1	13231049503A	08/19/2013 02:10	James S Mathiot	1
00273	Total Organic Carbon	SM 5310 C-2000	1	13232049501A	08/20/2013 01:13	James S Mathiot	1
12150	Total Alkalinity	SM 2320 B-1997	1	13229002203A	08/17/2013 21:33	Clayton C Litchmore	1
12707	Phenolphthalein Alkalinity	SM 2320 B-1997	1	13229002203A	08/17/2013 21:33	Clayton C Litchmore	1

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Analysis Report

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Sample Description: W-160814130835 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163197
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 08:35 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W16-- SDG#: BAE71-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00230	Sulfide	SM 4500-S2 D-2000	1	13232023001A	08/20/2013 08:35	Susan E Hibner	1

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Analysis Report

Sample Description: W-10814130930 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163198
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 09:30 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W1--- SDG#: BAE71-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
01754	Iron	7439-89-6	1.06	0.0430	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	17.1	1.5	5
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	1.7	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
	EPA 415.1 modified		**mg/l**	**mg/l**	
07547	Dissolved Organic Carbon	n.a.	1.8	0.50	1
	SM 5310 C-2000		**mg/l**	**mg/l**	
00273	Total Organic Carbon	n.a.	1.6	0.50	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity	n.a.	80.7	0.70	1
12707	Phenolphthalein Alkalinity	n.a.	N.D.	0.70	1
	SM 4500-S2 D-2000		**mg/l**	**mg/l**	
00230	Sulfide	18496-25-8	N.D.	0.054	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	132281848010	08/24/2013 20:03	John P Hook	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848010	08/19/2013 16:05	Kevin C Piaskowski	1
00228	Sulfate	EPA 300.0	1	13231347901B	08/19/2013 13:07	Sandra J Miller	5
00220	Nitrate Nitrogen	EPA 353.2	1	13232106101B	08/20/2013 13:38	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	13228105101A	08/16/2013 07:47	K Robert Caulfeild-James	1
07547	Dissolved Organic Carbon	EPA 415.1 modified	1	13231049503A	08/19/2013 02:25	James S Mathiot	1
00273	Total Organic Carbon	SM 5310 C-2000	1	13232049501A	08/20/2013 01:55	James S Mathiot	1
12150	Total Alkalinity	SM 2320 B-1997	1	13229002203A	08/17/2013 21:39	Clayton C Litchmore	1
12707	Phenolphthalein Alkalinity	SM 2320 B-1997	1	13229002203A	08/17/2013 21:39	Clayton C Litchmore	1

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Analysis Report

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Sample Description: W-10814130930 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163198
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 09:30 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W1--- SDG#: BAE71-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00230	Sulfide	SM 4500-S2 D-2000	1	13232023001A	08/20/2013 08:35	Susan E Hibner	1

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Analysis Report

Sample Description: RW-10814130945 Grab Groundwater 1863/ BAE-Lansdale, PA

LL Sample # WW 7163199
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 09:45 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RW1-- SDG#: BAE71-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
01754	Iron	7439-89-6	1.05	0.0430	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	16.9	1.5	5
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	2.5	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
	EPA 415.1 modified		**mg/l**	**mg/l**	
07547	Dissolved Organic Carbon	n.a.	N.D.	0.50	1
	SM 5310 C-2000		**mg/l**	**mg/l**	
00273	Total Organic Carbon	n.a.	N.D.	0.50	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity	n.a.	153	0.70	1
12707	Phenolphthalein Alkalinity	n.a.	N.D.	0.70	1
	SM 4500-S2 D-2000		**mg/l**	**mg/l**	
00230	Sulfide	18496-25-8	N.D.	0.054	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	132281848010	08/24/2013 20:07	John P Hook	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848010	08/19/2013 16:05	Kevin C Piaskowski	1
00228	Sulfate	EPA 300.0	1	13231347901B	08/19/2013 13:23	Sandra J Miller	5
00220	Nitrate Nitrogen	EPA 353.2	1	13232106101B	08/20/2013 13:40	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	13228105101A	08/16/2013 07:48	K Robert Caulfeild-James	1
07547	Dissolved Organic Carbon	EPA 415.1 modified	1	13231049503A	08/19/2013 02:38	James S Mathiot	1
00273	Total Organic Carbon	SM 5310 C-2000	1	13232049501A	08/20/2013 02:09	James S Mathiot	1
12150	Total Alkalinity	SM 2320 B-1997	1	13229002203A	08/17/2013 21:44	Clayton C Litchmore	1
12707	Phenolphthalein Alkalinity	SM 2320 B-1997	1	13229002203A	08/17/2013 21:44	Clayton C Litchmore	1

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Analysis Report

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Sample Description: RW-10814130945 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163199
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 09:45 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RW1-- SDG#: BAE71-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00230	Sulfide	SM 4500-S2 D-2000	1	13232023001A	08/20/2013 08:35	Susan E Hibner	1

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Analysis Report

Sample Description: PW-8A0814131025 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163200
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 10:25 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW8A- SDG#: BAE71-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
01754	Iron	7439-89-6	N.D.	0.0430	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	24.9	1.5	5
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	0.68	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
	EPA 415.1 modified		**mg/l**	**mg/l**	
07547	Dissolved Organic Carbon	n.a.	N.D.	0.50	1
	SM 5310 C-2000		**mg/l**	**mg/l**	
00273	Total Organic Carbon	n.a.	N.D.	0.50	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity	n.a.	138	0.70	1
12707	Phenolphthalein Alkalinity	n.a.	N.D.	0.70	1
	SM 4500-S2 D-2000		**mg/l**	**mg/l**	
00230	Sulfide	18496-25-8	N.D.	0.054	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	132281848010	08/24/2013 20:12	John P Hook	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848010	08/19/2013 16:05	Kevin C Piaskowski	1
00228	Sulfate	EPA 300.0	1	13231347901B	08/19/2013 13:55	Sandra J Miller	5
00220	Nitrate Nitrogen	EPA 353.2	1	13232106101B	08/20/2013 13:41	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	13228105101A	08/16/2013 07:49	K Robert Caulfeild-James	1
07547	Dissolved Organic Carbon	EPA 415.1 modified	1	13231049503A	08/19/2013 02:52	James S Mathiot	1
00273	Total Organic Carbon	SM 5310 C-2000	1	13232049501A	08/20/2013 02:22	James S Mathiot	1
12150	Total Alkalinity	SM 2320 B-1997	1	13229002203A	08/17/2013 21:51	Clayton C Litchmore	1
12707	Phenolphthalein Alkalinity	SM 2320 B-1997	1	13229002203A	08/17/2013 21:51	Clayton C Litchmore	1

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Analysis Report

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Sample Description: PW-8A0814131025 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163200
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 10:25 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

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PW8A- SDG#: BAE71-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00230	Sulfide	SM 4500-S2 D-2000	1	13232023001A	08/20/2013 08:35	Susan E Hibner	1

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Analysis Report

Sample Description: PW-110814131100 Grab Groundwater 1863/ BAE-Lansdale, PA

LL Sample # WW 7163201
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 11:00 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW11- SDG#: BAE71-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
01754	Iron	7439-89-6	0.254	0.0430	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	26.7	1.5	5
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	0.57	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
	EPA 415.1 modified		**mg/l**	**mg/l**	
07547	Dissolved Organic Carbon	n.a.	N.D.	0.50	1
	SM 5310 C-2000		**mg/l**	**mg/l**	
00273	Total Organic Carbon	n.a.	N.D.	0.50	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity	n.a.	142	0.70	1
12707	Phenolphthalein Alkalinity	n.a.	N.D.	0.70	1
	SM 4500-S2 D-2000		**mg/l**	**mg/l**	
00230	Sulfide	18496-25-8	N.D.	0.054	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	132281848010	08/24/2013 20:16	John P Hook	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848010	08/19/2013 16:05	Kevin C Piaskowski	1
00228	Sulfate	EPA 300.0	1	13231347901B	08/19/2013 14:12	Sandra J Miller	5
00220	Nitrate Nitrogen	EPA 353.2	1	13232106102A	08/20/2013 13:45	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	13228105101A	08/16/2013 07:50	K Robert Caulfeild-James	1
07547	Dissolved Organic Carbon	EPA 415.1 modified	1	13231049503A	08/19/2013 03:05	James S Mathiot	1
00273	Total Organic Carbon	SM 5310 C-2000	1	13232049501A	08/20/2013 02:36	James S Mathiot	1
12150	Total Alkalinity	SM 2320 B-1997	1	13229002203A	08/17/2013 21:57	Clayton C Litchmore	1
12707	Phenolphthalein Alkalinity	SM 2320 B-1997	1	13229002203A	08/17/2013 21:57	Clayton C Litchmore	1

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Analysis Report

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Sample Description: PW-110814131100 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163201
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 11:00 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

Environmental Alliance, Inc.
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PW11- SDG#: BAE71-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00230	Sulfide	SM 4500-S2 D-2000	1	13232023001A	08/20/2013 08:35	Susan E Hibner	1

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Analysis Report

Sample Description: PW-10A0814131210 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163202
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 12:10 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

P10A- SDG#: BAE71-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
01754	Iron	7439-89-6	0.0466 J	0.0430	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	24.7	1.5	5
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	0.77	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
	EPA 415.1 modified		**mg/l**	**mg/l**	
07547	Dissolved Organic Carbon	n.a.	N.D.	0.50	1
	SM 5310 C-2000		**mg/l**	**mg/l**	
00273	Total Organic Carbon	n.a.	N.D.	0.50	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity	n.a.	144	0.70	1
12707	Phenolphthalein Alkalinity	n.a.	N.D.	0.70	1
	SM 4500-S2 D-2000		**mg/l**	**mg/l**	
00230	Sulfide	18496-25-8	N.D.	0.054	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	132281848010	08/24/2013 20:20	John P Hook	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848010	08/19/2013 16:05	Kevin C Piaskowski	1
00228	Sulfate	EPA 300.0	1	13231347901B	08/19/2013 14:44	Sandra J Miller	5
00220	Nitrate Nitrogen	EPA 353.2	1	13232106102A	08/20/2013 13:48	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	13228105101A	08/16/2013 07:52	K Robert Caulfeild-James	1
07547	Dissolved Organic Carbon	EPA 415.1 modified	1	13231049503A	08/19/2013 03:35	James S Mathiot	1
00273	Total Organic Carbon	SM 5310 C-2000	1	13232049501A	08/20/2013 02:50	James S Mathiot	1
12150	Total Alkalinity	SM 2320 B-1997	1	13229002203A	08/17/2013 22:02	Clayton C Litchmore	1
12707	Phenolphthalein Alkalinity	SM 2320 B-1997	1	13229002203A	08/17/2013 22:02	Clayton C Litchmore	1

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Analysis Report

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Sample Description: PW-10A0814131210 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163202
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 12:10 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

Environmental Alliance, Inc.
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P10A- SDG#: BAE71-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00230	Sulfide	SM 4500-S2 D-2000	1	13232023001A	08/20/2013 08:35	Susan E Hibner	1

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Analysis Report

Sample Description: RI-20S0814131300 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163203
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 13:00 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

20S-- SDG#: BAE71-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
01754	Iron	7439-89-6	N.D.	0.0430	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	23.6	1.5	5
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	1.4	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
	EPA 415.1 modified		**mg/l**	**mg/l**	
07547	Dissolved Organic Carbon	n.a.	N.D.	0.50	1
	SM 5310 C-2000		**mg/l**	**mg/l**	
00273	Total Organic Carbon	n.a.	N.D.	0.50	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity	n.a.	135	0.70	1
12707	Phenolphthalein Alkalinity	n.a.	N.D.	0.70	1
	SM 4500-S2 D-2000		**mg/l**	**mg/l**	
00230	Sulfide	18496-25-8	N.D.	0.054	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	132281848010	08/24/2013 20:24	John P Hook	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848010	08/19/2013 16:05	Kevin C Piaskowski	1
00228	Sulfate	EPA 300.0	1	13231347901B	08/19/2013 15:00	Sandra J Miller	5
00220	Nitrate Nitrogen	EPA 353.2	1	13232106102A	08/20/2013 13:52	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	13228105101A	08/16/2013 07:55	K Robert Caulfeild-James	1
07547	Dissolved Organic Carbon	EPA 415.1 modified	1	13231049503A	08/19/2013 03:49	James S Mathiot	1
00273	Total Organic Carbon	SM 5310 C-2000	1	13232049501A	08/20/2013 03:20	James S Mathiot	1
12150	Total Alkalinity	SM 2320 B-1997	1	13229002203A	08/17/2013 22:08	Clayton C Litchmore	1
12707	Phenolphthalein Alkalinity	SM 2320 B-1997	1	13229002203A	08/17/2013 22:08	Clayton C Litchmore	1

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Analysis Report

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Sample Description: RI-20S0814131300 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7163203
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 13:00 by DZ

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

20S-- SDG#: BAE71-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00230	Sulfide	SM 4500-S2 D-2000	1	13232023001A	08/20/2013 08:35	Susan E Hibner	1

Sample Description: TRIP_BLANK072913 Water
1863/ BAE-Lansdale, PA

LL Sample # WW 7163204
LL Group # 1411891
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 07/29/2013

Submitted: 08/15/2013 18:45
Reported: 08/27/2013 17:41

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

529TB SDG#: BAE71-16TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	W132331AA	08/21/2013 13:52	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W132331AA	08/21/2013 13:52	Emily R Styer	1

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1411891
Reported: 08/27/13 at 05:41 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: W132331AA	Sample number(s): 7163189-7163196,7163204							
Acrolein	N.D.	40.	ug/l	91	88	46-146	3	30
Acrylonitrile	N.D.	4.	ug/l	72	73	61-130	1	30
Benzene	N.D.	0.5	ug/l	95	94	78-120	1	30
Bromodichloromethane	N.D.	1.	ug/l	110	112	73-120	2	30
Bromoform	N.D.	1.	ug/l	107	105	61-120	2	30
Bromomethane	N.D.	1.	ug/l	105	109	51-120	4	30
Carbon Tetrachloride	N.D.	1.	ug/l	124	125	74-130	1	30
Chlorobenzene	N.D.	0.8	ug/l	105	103	80-120	1	30
Chloroethane	N.D.	1.	ug/l	98	102	45-120	3	30
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	89	92	59-126	3	30
Chloroform	N.D.	0.8	ug/l	116	116	77-122	0	30
Chloromethane	N.D.	1.	ug/l	75	77	55-120	2	30
Dibromochloromethane	N.D.	1.	ug/l	105	107	72-120	2	30
1,1-Dichloroethane	N.D.	1.	ug/l	97	98	80-120	1	30
1,2-Dichloroethane	N.D.	1.	ug/l	128	129	71-130	0	30
1,1-Dichloroethene	N.D.	0.8	ug/l	105	109	76-124	3	30
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	100	102	80-120	2	30
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	105	106	80-120	1	30
1,2-Dichloropropane	N.D.	1.	ug/l	87	88	80-120	1	30
cis-1,3-Dichloropropene	N.D.	1.	ug/l	99	102	80-120	3	30
trans-1,3-Dichloropropene	N.D.	1.	ug/l	104	106	69-120	1	30
Ethylbenzene	N.D.	0.8	ug/l	102	102	79-120	0	30
Methylene Chloride	N.D.	2.	ug/l	101	98	80-120	2	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	85	83	70-120	2	30
Tetrachloroethene	N.D.	0.8	ug/l	120	113	80-120	6	30
Toluene	N.D.	0.7	ug/l	98	99	80-120	1	30
1,1,1-Trichloroethane	N.D.	0.8	ug/l	112	116	66-126	3	30
1,1,2-Trichloroethane	N.D.	0.8	ug/l	97	95	80-120	2	30
Trichloroethene	N.D.	1.	ug/l	110	110	80-120	1	30
Trichlorofluoromethane	N.D.	2.	ug/l	132*	133*	65-130	1	30
Vinyl Chloride	N.D.	1.	ug/l	88	89	63-120	2	30
Xylene (Total)	N.D.	0.8	ug/l	103	103	80-120	0	30
Batch number: W132341AA	Sample number(s): 7163194,7163196							
Trichloroethene	N.D.	1.	ug/l	109	107	80-120	2	30
Batch number: 132281848010	Sample number(s): 7163197-7163203							
Iron	N.D.	0.0430	mg/l	99		90-112		
Batch number: 13228105101A	Sample number(s): 7163197-7163203							
Nitrite Nitrogen	N.D.	0.015	mg/l	102		90-110		
Batch number: 13231049503A	Sample number(s): 7163197-7163203							

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1411891
Reported: 08/27/13 at 05:41 PM

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dissolved Organic Carbon	N.D.	0.50	mg/l	101		86-114		
Batch number: 13231347901B	Sample number(s): 7163197-7163203							
Sulfate	N.D.	0.30	mg/l	107		90-110		
Batch number: 13232049501A	Sample number(s): 7163197-7163203							
Total Organic Carbon	N.D.	0.50	mg/l	102		91-113		
Batch number: 13232106101B	Sample number(s): 7163197-7163200							
Nitrate Nitrogen	N.D.	0.040	mg/l	106		90-110		
Batch number: 13232106102A	Sample number(s): 7163201-7163203							
Nitrate Nitrogen	N.D.	0.040	mg/l	107		90-110		
Batch number: 13229002203A	Sample number(s): 7163197-7163203							
Total Alkalinity	0.90 J	0.70	mg/l as CaCO3	97		90-110		
Batch number: 13232023001A	Sample number(s): 7163197-7163203							
Sulfide	N.D.	0.054	mg/l	99		90-110		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 132281848010	Sample number(s): 7163197-7163203 UNSPK: P163108 BKG: P163108								
Iron	100	99	75-125	1	20	N.D.	N.D.	0 (1)	20
Batch number: 13228105101A	Sample number(s): 7163197-7163203 UNSPK: 7163197 BKG: 7163197								
Nitrite Nitrogen	101		90-110			N.D.	N.D.	0 (1)	20
Batch number: 13231049503A	Sample number(s): 7163197-7163203 UNSPK: P159430 BKG: P159430								
Dissolved Organic Carbon	99		54-135			5.4	5.6	3*	2
Batch number: 13231347901B	Sample number(s): 7163197-7163203 UNSPK: P160399 BKG: P160399								
Sulfate	101		90-110			80.6	80.3	0	20
Batch number: 13232049501A	Sample number(s): 7163197-7163203 UNSPK: 7163197 BKG: 7163197								
Total Organic Carbon	109		63-142			N.D.	N.D.	0 (1)	4
Batch number: 13232106101B	Sample number(s): 7163197-7163200 UNSPK: P161861 BKG: P161861								
Nitrate Nitrogen	96		90-110			N.D.	N.D.	0 (1)	2
Batch number: 13232106102A	Sample number(s): 7163201-7163203 UNSPK: 7163201 BKG: 7163201								
Nitrate Nitrogen	99		90-110			0.57	0.58	1	2
Batch number: 13229002203A	Sample number(s): 7163197-7163203 UNSPK: P163274 BKG: P163274								
Total Alkalinity	96	92	10-159	1	5	427	430	1	5
Phenolphthalein Alkalinity						N.D.	N.D.	0 (1)	5

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1411891
Reported: 08/27/13 at 05:41 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 13232023001A	Sample number(s): 7163197-7163203 UNSPK: P164223 BKG: P164223								
Sulfide	89	96	42-131	8	16	N.D.	N.D.	0 (1)	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 VOCs
Batch number: W132331AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7163189	109	103	95	97
7163190	112	102	95	97
7163191	113	102	93	98
7163192	111	106	92	96
7163193	112	106	93	97
7163194	113	107	95	96
7163195	112	103	94	95
7163196	113	102	94	97
7163204	107	102	95	97
Blank	108	104	95	98
LCS	107	102	98	103
LCSD	109	102	97	103
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

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Acct. # 7039 For Eurofins Lancaster Laboratories use only Group # 1411891 Sample # 7163189-204

Instructions on reverse side correspond with circled numbers.

COC #331039

1 Client Information

Client: ENVIRONMENTAL ALLIANCE	Acct. #:
Project Name/#: FORMER BAE/1863	PWSID #:
Project Manager: Chris Thoeny / Chris Hine	P.O. #: 6799
Sampler: Derek Zak	Quote #:
Name of state where samples were collected: PA	

4 Matrix: Soil ☐ Sediment ☐ Water: Potable ☐ Ground ☒ NPDES ☐ Surface ☐ Other: ____

5 Analysis Requested — Preservation Codes: H; VOC's 8260 STD water master

For Lab Use Only
FSC: ____
SCR#: ____

Preservation Codes: H=HCl, T=Thiosulfate, N=HNO_3, B=NaOH, S=H_2SO_4, O=Other

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Other	Total # of Containers	VOC's 8260 STD water master
PW-5 DUP	08/12/13	0915	✓			✓		3	X
FOXMW-5	08/12/13	1320	✓			✓		3	X
A-8	08/13/13	1000	✓			✓		3	X
A-9	08/13/13	1025	✓			✓		3	X
A-2	08/13/13	1105	✓			✓		3	X
W-4	08/13/13	1205	✓			✓		3	X
RW-55	08/13/13	1300	✓			✓		3	X
RI-31	08/13/13	1345	✓			✓		3	X
~~RI-30~~ DZ	~~08/14/13~~	~~1340~~	~~✓~~	DZ		~~✓~~		~~3~~	~~X~~ DZ
~~RINSATE BLANK-01~~ DZ	~~08/14/13~~	~~1400~~	~~✓~~			~~✓~~		~~3~~	~~X~~

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZ-EDD

E-mail address: ____

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	08/15/13	1130	Mark Denlinger	8/15/13	1222
Mark Denlinger	8-15-13	1845			
			[signature]	8/15/13	1845

EDD Required? Yes No
If yes, format: EZ-EDD

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____

Temperature upon receipt 0.7-1.0 °C

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 7039 For Eurofins Lancaster Laboratories use only Group # 1411891 Sample # 7163189-204
Instructions on reverse side correspond with circled numbers.

COC #331033

1 Client Information

Client: Environmental Alliance
Acct. #:
Project Name/#: FORMER BAF/1863
PWSID #:
Project Manager: Chris Thoeny / Chris Hine
P.O. #: 6794
Sampler: Derek ZAY
Quote #:
Name of state where samples were collected: PA

For Lab Use Only
FSC:
SCR#: 143028

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	4 Matrix: Soil	Sediment	Ground	Potable	Surface	NPDES	Water	Other	Total # of Containers	5 Analysis Requested (Preservation Codes): ~~VOC's 624 STD water~~	~~BZ SVOC's 625 STD~~	2	IRON	SULFIDE	DISSOLVED ORGANIC CARBON	SULFATE	NITRATE NITROGEN	Phenolphthalein Alkalinity/TOTAL ALKALINITY	TOTAL ORGANIC CARBON	8260 STD water master	6 Remarks
W-16	08/14/13	0835	✓								✓		9				1	1	1	2	1	1	2		Sampling
W-1	08/14/13	0930	✓								✓		9				1	1	1	2	1	1	2		completed
RW-1	08/14/13	0945	✓								✓		9				1	1	1	2	1	1	2		
PW-8A	08/14/13	1025	✓								✓		9				1	1	1	2	1	1	2		
PW-11	08/14/13	1100	✓								✓		9				1	1	1	2	1	1	2		
PW-10A	08/14/13	1210	✓								✓		9				1	1	1	2	1	1	2		
RI-20S	08/14/13	1300	✓								✓		9				1	1	1	2	1	1	2		
DZ ~~FIELD BLANK~~																									
DZ TRIP BLANK	07/29/13			✓							✓		4											4	1313191

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZ-EDD

E-mail address:

8 Data Package Options (circle if required)
Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
Bottle Storage	7-30-13	0830	Mark Denlinger	7-30-13	0830
Mark Denlinger	7-30-13	1100	[illegible]	08/06/13	0600
[illegible]	08/15/13	1130	Mark Denlinger	8/15/13	[illegible]
Mark Denlinger	8-15-13	1845			
			[illegible]	8/15/13	1845

EDD Required? Yes No
If yes, format: EZ-EDD
Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS ____ FedEx ____ Other ____
Temperature upon receipt 0.7-1.0 °C

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Environmental Sample Administration Receipt Documentation Log

1411891

Client/Project: Environmental Alliance

Date of Receipt: 8/15/13

Time of Receipt: 1845

Source Code: 01

Shipping Container Sealed: (YES) NO

Custody Seal Present * : (YES) NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: (Chilled) Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	1.0	TB	WI	Y	B	
2	↓	0.7	↓	↓	↓	↓	
3	↓	0.7	↓	↓	↓	↓	
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Received 1 metals batch QC bottle for RW-1 (10 containers)

Unpacker Signature/Emp#: 2308 **Date/Time:** 8/15/13 2144

Issued by Dept. 6042 Management

2174.06

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

August 21, 2013

Project: 1863/ BAE - Lansdale, PA

Submittal Date: 08/14/2013
Group Number: 1411477
SDG: BAE69
PO Number: 6799
State of Sample Origin: PA

Client Sample Description	Lancaster Labs (LL) #
W-160814130835 Grab Groundwater	7161185
W-10814130930 Grab Groundwater	7161186
RW-10814130945 Grab Groundwater	7161187
PW-8A0814131025 Grab Groundwater	7161188
PW-110814131100 Grab Groundwater	7161189
PW-10A0814131210 Grab Groundwater	7161190
RI-20S0814131300 Grab Groundwater	7161191
TRIP_BLANK052913 Water	7161192
RI-20SDUP0814131300 Grab Groundwater	7161193
RI-300814131340 Grab Groundwater	7161194
FIELD_BLANK-010814131350 Grab Water	7161195
RINSATE_BLANK-010814131400 Grab Water	7161196

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO Environmental Alliance, Inc. Attn: Myrna Klair

Respectfully Submitted,

Megan A. Moeller
Senior Specialist

(717) 556-7261

Sample Description: W-160814130835 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7161185
LL Group # 1411477
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 08:35 by DZ

Submitted: 08/14/2013 17:55
Reported: 08/21/2013 10:11

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W0016 SDG#: BAE69-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	N.D.	0.010	1
Wet Chemistry	**EPA 353.2**		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	3.1	0.040	1
	The analysis for Nitrate Nitrogen was analyzed outside of the 48 hour holding time.				
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: W-160814130835 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7161185
LL Group # 1411477
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 08:35 by DZ

Submitted: 08/14/2013 17:55
Reported: 08/21/2013 10:11

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W0016 SDG#: BAE69-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	L132281AA	08/16/2013 05:06	Stephanie A Selis	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E132271AA	08/15/2013 15:33	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E132271AA	08/15/2013 15:33	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L132281AA	08/16/2013 05:06	Stephanie A Selis	1
00220	Nitrate Nitrogen	EPA 353.2	1	13232106101A	08/20/2013 13:07	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	13227105101A	08/15/2013 07:40	K Robert Caulfeild-James	1

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Analysis Report

Sample Description: W-10814130930 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7161186
LL Group # 1411477
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 09:30 by DZ

Submitted: 08/14/2013 17:55
Reported: 08/21/2013 10:11

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W0001 SDG#: BAE69-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	7	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	41	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	N.D.	0.010	1
Wet Chemistry	**EPA 353.2**		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	1.7	0.040	1
	The analysis for Nitrate Nitrogen was analyzed outside of the 48 hour holding time.				
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

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Analysis Report

Sample Description: W-10814130930 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7161186
LL Group # 1411477
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 09:30 by DZ

Submitted: 08/14/2013 17:55
Reported: 08/21/2013 10:11

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

W0001 SDG#: BAE69-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	L132281AA	08/16/2013 05:28	Stephanie A Selis	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E132271AA	08/15/2013 15:53	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E132271AA	08/15/2013 15:53	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L132281AA	08/16/2013 05:28	Stephanie A Selis	1
00220	Nitrate Nitrogen	EPA 353.2	1	13232106101A	08/20/2013 13:11	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	13227105101A	08/15/2013 07:43	K Robert Caulfeild-James	1

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Analysis Report

Sample Description: RW-10814130945 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7161187
LL Group # 1411477
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 09:45 by DZ

Submitted: 08/14/2013 17:55
Reported: 08/21/2013 10:11

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RW001 SDG#: BAE69-03

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acrolein	107-02-8	N.D.		40	1
10335	Acrylonitrile	107-13-1	N.D.		4	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromodichloromethane	75-27-4	N.D.		1	1
10335	Bromoform	75-25-2	N.D.		1	1
10335	Bromomethane	74-83-9	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		1	1
10335	Chlorobenzene	108-90-7	N.D.		0.8	1
10335	Chloroethane	75-00-3	N.D.		1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.		0.8	1
10335	Chloromethane	74-87-3	N.D.		1	1
10335	Dibromochloromethane	124-48-1	N.D.		1	1
10335	1,1-Dichloroethane	75-34-3	N.D.		1	1
10335	1,2-Dichloroethane	107-06-2	N.D.		1	1
10335	1,1-Dichloroethene	75-35-4	2	J	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	3	J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10335	Ethylbenzene	100-41-4	N.D.		0.8	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10335	Tetrachloroethene	127-18-4	1	J	0.8	1
10335	Toluene	108-88-3	N.D.		0.7	1
10335	1,1,1-Trichloroethane	71-55-6	3	J	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10335	Trichloroethene	79-01-6	72		1	1
10335	Trichlorofluoromethane	75-69-4	N.D.		2	1
10335	Vinyl Chloride	75-01-4	N.D.		1	1
10335	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	
06008	Vinyl Chloride	75-01-4	0.029	J	0.010	1
Wet Chemistry	**EPA 353.2**		**mg/l**		**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	2.5		0.040	1
	The analysis for Nitrate Nitrogen was analyzed outside of the 48 hour holding time.					
00219	Nitrite Nitrogen	14797-65-0	N.D.		0.015	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Analysis Report

Sample Description: RW-10814130945 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7161187
LL Group # 1411477
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 09:45 by DZ

Submitted: 08/14/2013 17:55
Reported: 08/21/2013 10:11

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RW001 SDG#: BAE69-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	L132281AA	08/16/2013 05:50	Stephanie A Selis	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E132271AA	08/15/2013 16:13	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E132271AA	08/15/2013 16:13	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L132281AA	08/16/2013 05:50	Stephanie A Selis	1
00220	Nitrate Nitrogen	EPA 353.2	1	13232106101A	08/20/2013 13:12	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	13227105101A	08/15/2013 07:45	K Robert Caulfeild-James	1

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Analysis Report

Sample Description: PW-8A0814131025 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7161188
LL Group # 1411477
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 10:25 by DZ

Submitted: 08/14/2013 17:55
Reported: 08/21/2013 10:11

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW08A SDG#: BAE69-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	7	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	8	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	16	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	0.034 J	0.010	1
Wet Chemistry	**EPA 353.2**		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	0.71	0.040	1
	The analysis for Nitrate Nitrogen was analyzed outside of the 48 hour holding time.				
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

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Analysis Report

Sample Description: PW-8A0814131025 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7161188
LL Group # 1411477
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 10:25 by DZ

Submitted: 08/14/2013 17:55
Reported: 08/21/2013 10:11

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW08A SDG#: BAE69-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	L132281AA	08/16/2013 06:12	Stephanie A Selis	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E132271AA	08/15/2013 18:24	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E132271AA	08/15/2013 18:24	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L132281AA	08/16/2013 06:12	Stephanie A Selis	1
00220	Nitrate Nitrogen	EPA 353.2	1	13232106101A	08/20/2013 13:13	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	13227105101A	08/15/2013 07:46	K Robert Caulfeild-James	1

Sample Description: PW-110814131100 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7161189
LL Group # 1411477
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 11:00 by DZ

Submitted: 08/14/2013 17:55
Reported: 08/21/2013 10:11

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW011 SDG#: BAE69-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	24	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	2 J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	0.8 J	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	6	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	49	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	0.020 J	0.010	1
Wet Chemistry	**EPA 353.2**		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	0.58	0.040	1
	The analysis for Nitrate Nitrogen was analyzed outside of the 48 hour holding time.				
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

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Analysis Report

Sample Description: PW-110814131100 Grab Groundwater 1863/ BAE-Lansdale, PA

LL Sample # WW 7161189
LL Group # 1411477
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 11:00 by DZ

Submitted: 08/14/2013 17:55
Reported: 08/21/2013 10:11

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW011 SDG#: BAE69-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	L132281AA	08/16/2013 06:34	Stephanie A Selis	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E132271AA	08/15/2013 16:53	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E132271AA	08/15/2013 16:53	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L132281AA	08/16/2013 06:34	Stephanie A Selis	1
00220	Nitrate Nitrogen	EPA 353.2	1	13232106101A	08/20/2013 13:15	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	13227105101A	08/15/2013 07:47	K Robert Caulfeild-James	1

Sample Description: PW-10A0814131210 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7161190
LL Group # 1411477
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 12:10 by DZ

Submitted: 08/14/2013 17:55
Reported: 08/21/2013 10:11

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW10A SDG#: BAE69-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	5 J	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	44	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	3 J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	2 J	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	6	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	120	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	0.057	0.010	1
Wet Chemistry	**EPA 353.2**		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	0.77	0.040	1
	The analysis for Nitrate Nitrogen was analyzed outside of the 48 hour holding time.				
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

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Analysis Report

Sample Description: PW-10A0814131210 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7161190
LL Group # 1411477
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 12:10 by DZ

Submitted: 08/14/2013 17:55
Reported: 08/21/2013 10:11

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

PW10A SDG#: BAE69-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	L132281AA	08/16/2013 06:56	Stephanie A Selis	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E132271AA	08/15/2013 17:13	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E132271AA	08/15/2013 17:13	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L132281AA	08/16/2013 06:56	Stephanie A Selis	1
00220	Nitrate Nitrogen	EPA 353.2	1	13232106101A	08/20/2013 13:16	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	13227105101B	08/15/2013 07:48	K Robert Caulfeild-James	1

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Analysis Report

Sample Description: RI-20S0814131300 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7161191
LL Group # 1411477
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 13:00 by DZ

Submitted: 08/14/2013 17:55
Reported: 08/21/2013 10:11

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RI20S SDG#: BAE69-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	3 J	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	48	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	3 J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	3 J	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	11	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	140	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	0.036 J	0.010	1
Wet Chemistry	**EPA 353.2**		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	1.5	0.040	1
	The analysis for Nitrate Nitrogen was analyzed outside of the 48 hour holding time.				
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Analysis Report

Sample Description: RI-20S0814131300 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7161191
LL Group # 1411477
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 13:00 by DZ

Submitted: 08/14/2013 17:55
Reported: 08/21/2013 10:11

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RI20S SDG#: BAE69-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	L132281AA	08/16/2013 07:18	Stephanie A Selis	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E132271AA	08/15/2013 17:33	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E132271AA	08/15/2013 17:33	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L132281AA	08/16/2013 07:18	Stephanie A Selis	1
00220	Nitrate Nitrogen	EPA 353.2	1	13232106101A	08/20/2013 13:17	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	13227105101B	08/15/2013 07:52	K Robert Caulfeild-James	1

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Analysis Report

Sample Description: TRIP_BLANK052913 Water
1863/ BAE-Lansdale, PA

LL Sample # WW 7161192
LL Group # 1411477
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 05/29/2013

Submitted: 08/14/2013 17:55
Reported: 08/21/2013 10:11

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

TBBAE SDG#: BAE69-08TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	L132281AA	08/16/2013 07:40	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L132281AA	08/16/2013 07:40	Stephanie A Selis	1

Sample Description: RI-20SDUP0814131300 Grab Groundwater
1863/ BAE-Lansdale, PA

LL Sample # WW 7161193
LL Group # 1411477
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 13:00 by DZ

Submitted: 08/14/2013 17:55
Reported: 08/21/2013 10:11

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

20SFD SDG#: BAE69-10FD

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acrolein	107-02-8	N.D.		40	1
10335	Acrylonitrile	107-13-1	N.D.		4	1
10335	Benzene	71-43-2	N.D.		0.5	1
10335	Bromodichloromethane	75-27-4	N.D.		1	1
10335	Bromoform	75-25-2	N.D.		1	1
10335	Bromomethane	74-83-9	N.D.		1	1
10335	Carbon Tetrachloride	56-23-5	N.D.		1	1
10335	Chlorobenzene	108-90-7	N.D.		0.8	1
10335	Chloroethane	75-00-3	N.D.		1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.		0.8	1
10335	Chloromethane	74-87-3	N.D.		1	1
10335	Dibromochloromethane	124-48-1	N.D.		1	1
10335	1,1-Dichloroethane	75-34-3	3	J	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.		1	1
10335	1,1-Dichloroethene	75-35-4	48		0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	3	J	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.		1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1
10335	Ethylbenzene	100-41-4	N.D.		0.8	1
10335	Methylene Chloride	75-09-2	N.D.		2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1
10335	Tetrachloroethene	127-18-4	4	J	0.8	1
10335	Toluene	108-88-3	N.D.		0.7	1
10335	1,1,1-Trichloroethane	71-55-6	11		0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	1
10335	Trichloroethene	79-01-6	140		1	1
10335	Trichlorofluoromethane	75-69-4	N.D.		2	1
10335	Vinyl Chloride	75-01-4	N.D.		1	1
10335	Xylene (Total)	1330-20-7	N.D.		0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	L132281AA	08/16/2013 08:02	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L132281AA	08/16/2013 08:02	Stephanie A Selis	1

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Analysis Report

Sample Description: RI-300814131340 Grab Groundwater 1863/ BAE-Lansdale, PA

LL Sample # WW 7161194
LL Group # 1411477
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 13:40 by DZ

Submitted: 08/14/2013 17:55
Reported: 08/21/2013 10:11

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

RI030 SDG#: BAE69-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	L132281AA	08/16/2013 08:24	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L132281AA	08/16/2013 08:24	Stephanie A Selis	1

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Analysis Report

Sample Description: FIELD_BLANK-010814131350 Grab Water
1863/ BAE-Lansdale, PA

LL Sample # WW 7161195
LL Group # 1411477
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 13:50 by DZ

Submitted: 08/14/2013 17:55
Reported: 08/21/2013 10:11

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

FBBAE SDG#: BAE69-12FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**	**ug/l**	
06008	Vinyl Chloride	75-01-4	N.D.	0.010	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: FIELD_BLANK-010814131350 Grab Water
1863/ BAE-Lansdale, PA

LL Sample # WW 7161195
LL Group # 1411477
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 13:50 by DZ

Submitted: 08/14/2013 17:55
Reported: 08/21/2013 10:11

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

FBBAE SDG#: BAE69-12FB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	L132281AA	08/16/2013 08:45	Stephanie A Selis	1
06008	Waters by SIMS 8260B	SW-846 8260B SIM	1	E132271AA	08/15/2013 14:32	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E132271AA	08/15/2013 14:32	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L132281AA	08/16/2013 08:45	Stephanie A Selis	1

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Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: RINSATE_BLANK-010814131400 Grab Water
1863/ BAE-Lansdale, PA

LL Sample # WW 7161196
LL Group # 1411477
Account # 07039

Project Name: 1863/ BAE - Lansdale, PA

Collected: 08/14/2013 14:00 by DZ

Submitted: 08/14/2013 17:55
Reported: 08/21/2013 10:11

Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington DE 19808

BAERB SDG#: BAE69-13RB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acrolein	107-02-8	N.D.	40	1
10335	Acrylonitrile	107-13-1	N.D.	4	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromodichloromethane	75-27-4	N.D.	1	1
10335	Bromoform	75-25-2	N.D.	1	1
10335	Bromomethane	74-83-9	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.8	1
10335	Chloroethane	75-00-3	N.D.	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.8	1
10335	Chloromethane	74-87-3	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.8	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	1
10335	1,2-Dichloropropane	78-87-5	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.8	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.8	1
10335	Toluene	108-88-3	N.D.	0.7	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	1
10335	Trichloroethene	79-01-6	N.D.	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	2	1
10335	Vinyl Chloride	75-01-4	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/14

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	PPL 8260 Water	SW-846 8260B	1	L132281AA	08/16/2013 09:07	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L132281AA	08/16/2013 09:07	Stephanie A Selis	1

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1411477
Reported: 08/21/13 at 10:11 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: E132271AA	Sample number(s): 7161185-7161191,7161195							
Vinyl Chloride	N.D.	0.010	ug/l	80	80	70-130	0	30
Batch number: L132281AA	Sample number(s): 7161185-7161196							
Acrolein	N.D.	40.	ug/l	88	89	46-146	1	30
Acrylonitrile	N.D.	4.	ug/l	90	92	61-130	1	30
Benzene	N.D.	0.5	ug/l	96	96	77-121	0	30
Bromodichloromethane	N.D.	1.	ug/l	98	100	73-120	2	30
Bromoform	N.D.	1.	ug/l	93	92	61-120	1	30
Bromomethane	N.D.	1.	ug/l	86	86	51-120	0	30
Carbon Tetrachloride	N.D.	1.	ug/l	107	107	65-137	0	30
Chlorobenzene	N.D.	0.8	ug/l	97	96	80-120	1	30
Chloroethane	N.D.	1.	ug/l	83	83	60-120	0	30
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	83	85	52-127	3	30
Chloroform	N.D.	0.8	ug/l	104	104	77-122	0	30
Chloromethane	N.D.	1.	ug/l	81	82	54-123	1	30
Dibromochloromethane	N.D.	1.	ug/l	98	97	72-120	1	30
1,1-Dichloroethane	N.D.	1.	ug/l	100	100	79-120	1	30
1,2-Dichloroethane	N.D.	1.	ug/l	110	111	64-130	1	30
1,1-Dichloroethene	N.D.	0.8	ug/l	90	92	76-124	2	30
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	93	96	80-120	2	30
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	95	95	80-120	0	30
1,2-Dichloropropane	N.D.	1.	ug/l	100	102	80-120	1	30
cis-1,3-Dichloropropene	N.D.	1.	ug/l	96	97	78-120	2	30
trans-1,3-Dichloropropene	N.D.	1.	ug/l	96	96	66-124	0	30
Ethylbenzene	N.D.	0.8	ug/l	96	94	79-120	2	30
Methylene Chloride	N.D.	2.	ug/l	95	96	84-118	1	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	93	93	70-129	0	30
Tetrachloroethene	N.D.	0.8	ug/l	100	98	79-120	1	30
Toluene	N.D.	0.7	ug/l	97	96	79-120	1	30
1,1,1-Trichloroethane	N.D.	0.8	ug/l	94	93	66-126	1	30
1,1,2-Trichloroethane	N.D.	0.8	ug/l	98	96	80-120	2	30
Trichloroethene	N.D.	1.	ug/l	98	98	80-120	0	30
Trichlorofluoromethane	N.D.	2.	ug/l	103	102	65-130	1	30
Vinyl Chloride	N.D.	1.	ug/l	84	85	63-120	0	30
Xylene (Total)	N.D.	0.8	ug/l	95	94	77-120	1	30
Batch number: 13227105101A	Sample number(s): 7161185-7161189							
Nitrite Nitrogen	N.D.	0.015	mg/l	97		90-110		
Batch number: 13227105101B	Sample number(s): 7161190-7161191							
Nitrite Nitrogen	N.D.	0.015	mg/l	97		90-110		
Batch number: 13232106101A	Sample number(s): 7161185-7161191							

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1411477
Reported: 08/21/13 at 10:11 AM

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Nitrate Nitrogen	N.D.	0.040	mg/l	106		90-110		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 13227105101A	Sample number(s): 7161185-7161189 UNSPK: P161029 BKG: P161029								
Nitrite Nitrogen	106		90-110			0.045 J	0.045 J	1 (1)	20
Batch number: 13227105101B	Sample number(s): 7161190-7161191 UNSPK: 7161190 BKG: 7161190								
Nitrite Nitrogen	99		90-110			N.D.	N.D.	0 (1)	20
Batch number: 13232106101A	Sample number(s): 7161185-7161191 UNSPK: 7161185 BKG: 7161185								
Nitrate Nitrogen	83*		90-110			3.1	3.1	1	2

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Waters by SIMS 8260B
Batch number: E132271AA

	Dibromofluoromethane
7161185	94
7161186	93
7161187	94
7161188	93
7161189	94
7161190	94
7161191	94
7161195	95
Blank	91
LCS	92
LCSD	94
Limits:	80-120

Analysis Name: 8260 VOCs
Batch number: L132281AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7161185	101	103	99	96
7161186	102	105	100	96
7161187	103	105	99	96
7161188	103	104	100	97
7161189	102	104	99	96

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Environmental Alliance, Inc. Group Number: 1411477
Reported: 08/21/13 at 10:11 AM

Surrogate Quality Control

7161190	104	105	98	95
7161191	104	104	99	96
7161192	104	105	98	95
7161193	104	105	99	95
7161194	104	104	99	95
7161195	105	105	99	95
7161196	105	106	99	95
Blank	101	105	99	96
LCS	100	103	102	102
LCSD	100	103	101	101
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

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Acct. # 7039 For Eurofins Lancaster Laboratories use only Group # 1411477 Sample # 7161185-96

Instructions on reverse side correspond with circled numbers.

COC #331041

1 Client Information

Client: Environmental Alliance	Acct. #:
Project Name/#: Former BAE/1863	PWSID #:
Project Manager: Chris Thoeny / Chris Hoe	P.O. #: 6799
Sampler: Derek Zay	Quote #:
Name of state where samples were collected: PA	

4 Matrix: Sediment ☐ Soil ☐ Water: Potable ☐ Ground ☒ NPDES ☐ Surface ☐ Other: ____

5 Analysis Requested — Preservation Codes

For Lab Use Only: FSC: ____ SCR#: ____

Preservation Codes: H=HCl, T=Thiosulfate, N=HNO_3, B=NaOH, S=H_2SO_4, O=Other

2 Sample Identification / **3 Collected**

Sample Identification	Date	Time	Grab	Composite	Soil	Water	Other	Total # of Containers	SIMS 8260B (H)	VOCs 8260 (H)	NITRITE NITROGEN								6 Remarks
W-16	08/14/13	0835	✓			✓		7	3	3	1								More Samples
W-1	08/14/13	0930	✓			✓		7	3	3	1								To Fallow
RW-1	08/14/13	0945	✓			✓		7	3	3	1								
PW-8A	08/14/13	1025	✓			✓		7	3	3	1								
PW-11	08/14/13	1100	✓			✓		7	3	3	1								
PW-10A	08/14/13	1210	✓			✓		7	3	3	1								
RI-20S	08/14/13	1300	✓			✓		7	3	3	1								
TRIP BLANK	05/29/13		✓			✓		2		2									
RI-20S DUP	08/14/13	1300	✓			✓		3	[illegible]	3									
RI-30	08/14/13	1340	✓			✓		3		3									

7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZEDD

E-mail address: ____

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	08/14/13	1530	[signature]	8/14/13	15:30
Bill DeZong ③ [signature] 8/14/13	~~8/13/14~~	17:55			
8/14/13					
			[signature]	8/14/13	1755

EDD Required? Yes No

If yes, format: EZEDD

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____

Temperature upon receipt 2.2 °C

Environmental Analysis Request/Chain of Custody

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For Eurofins Lancaster Laboratories use only
Acct. # 7039 Group # 1411477 Sample # 7161185-96
Instructions on reverse side correspond with circled numbers.

COC #331040

1 Client Information

Client: Environmental Alliance	Acct. #:
Project Name/#: Former BAE/1863	PWSID #:
Project Manager: Chris Thoeny/Chris Hine	P.O. #: 6799
Sampler: Derek Zax	Quote #:
Name of state where samples were collected: PA	

2 Sample Identification / **3 Collected** (Date, Time) / **4 Matrix** (Soil ☐, Sediment ☐, Water: Potable ☐, Ground ☐, NPDES ☐, Surface ☐, Other: ___) / **5 Analysis Requested** (Preservation Codes: H, H)

Sample Identification	Date	Time	Grab	Composite	Soil	Water	Other	Total # of Containers	8260B SIMS method	8260 VOC's									Remarks
FIELD BLANK-01	08/14/13	1350	✓			✓		6	3	3									More Samples
RINSATE BLANK-01	08/14/13	1400	✓			✓				3									To Fallow

For Lab Use Only
FSC:
SCR#:

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

6 Remarks

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: EZ-EDD

E-mail address:

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
[signature]	08/14/13	1530	Bill De Long	8/14/13	1530
Bill De Long	8-14-13	1755			
			[signature]	8/14/13	1755

EDD Required? Yes No
If yes, format: EZ-EDD

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS ____ FedEx ____ Other ____

Temperature upon receipt 2.2 °C

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The white copy should accompany samples to Eurofins Lancaster Laboratories. The yellow copy should be retained by the client.
Issued by Dept. 40 Management
7044.02
Page 27 of 29

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Environmental Sample Administration Receipt Documentation Log

1411477

Client/Project: Environmental Alliance

Date of Receipt: 8/14/13

Time of Receipt: 1755

Source Code: 01

Shipping Container Sealed: (YES) NO

Custody Seal Present * : (YES) NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: (Chilled) Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	2.2	TB	WI	Y	B	
2							
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Nitrite vial for w-1 labeled w-8 8/14/13 930

Unpacker Signature/Emp#: 2308 **Date/Time:** 8/14/13 1855

Issued by Dept. 6042 Management

2174.06

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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SiREM
Leading Science · Lasting Solutions

130 Research Lane, Ste 2
Guelph ON N1G 5G3
(519) 822-2265

Analytical Results

Client: Environmental Alliance
Client Project Number: 1863
Date Samples Received: August 16, 2013
Date Samples Analyzed: August 22, 2013

SiREM File Reference: S-2936

Client Sample ID	SiREM Reference ID	Client Sample Date	Sample dilution factor	Lactate	Acetate	Propionate	Formate	Butyrate	Pyruvate
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
W-16	13-1115	14-Aug-13	5	0.41	1.3	<0.03	0.75	0.48	<0.07
W-1	13-1116	14-Aug-13	5	0.52	1.6	<0.03	1.1	0.30	<0.07
RW-1	13-1117	14-Aug-13	5	0.22	1.6	<0.03	0.91	0.51	0.11
PW-8A	13-1118	14-Aug-13	5	0.49	1.5	<0.03	<0.02	<0.04	<0.07
PW-11	13-1119	14-Aug-13	5	0.19	2.1	<0.03	0.96	1.1	<0.07
PW-10A	13-1120	14-Aug-13	5	0.72	1.6	<0.03	0.88	0.95	<0.07
RJ-20S	13-1121	14-Aug-13	5	0.69	2.7	<0.03	1.2	0.61	1.8
			QL	0.04	0.05	0.03	0.02	0.04	0.07

Comments:

Method: Ion Chromatography
QL = Quantitation limit
J = associated value is estimated; compound positively detected at concentration below the QL
< = compound analysed for but not detected, associated value is QL. Sample QL is corrected for dilution.

Analyst: Kela Bartle

Kela Bartle, B.Sc.
Laboratory Technician

Results approved: Jeff Roberts

Jeff Roberts, M.Sc.
Laboratory Manager

Date: 27-Aug-13

SiREM
Leading Science · Lasting Solutions

Chain-of-Custody Form

130 Research Lane, Suite 2 · Guelph, Ontario, Canada N1G 5G3 · Phone (519) 822-2265 or toll free 1-866-251-1747 Fax (519) 822-3151
www.siremlab.com

№ 3551

Lab # S-2936

Page 1 of 1

Project Name	FORMER BAE 1863
Project #	1863
Project Manager	Chris Thoeny / Chris HINE
Email Address	~~5341 LIMESTONE Rd~~ CHINE@ENVALLIANCE.COM
Company	ENVIRONMENTAL ALLIANCE
Address	5341 LIMESTONE Rd WILMINGTON DE, 19808
Phone #	302-234-4400
Fax #	
Sampler's Signature	[signature]
Sampler's Printed Name	DEREK ZAK

Analysis

Preservative Key: 0. None; 1. HCl; 2. Other ____; 3. Other ____

Customer Sample ID	Sampling Date	Sampling Time	Matrix	# of Containers	Gene-Trac Dhc	Gene-Trac VC	Gene-Trac Dhb	LACTATE	ACETATE	PROPIONATE	FORMATE	Butyrate	PYRUVATE			Other Information
Preservative								0	0	0	0	0	0			
W-16	08/14/13	0835	GW	2				X	X	X	X	X	X			VFA Analysis
W-1		0930	GW	2				X	X	X	X	X	X			
RW-1		0945	GW	2				X	X	X	X	X	X			
PW-8A		1025	GW	2				X	X	X	X	X	X			
PW-11		1100	GW	2				X	X	X	X	X	X			
PW-10A		1210	GW	2				X	X	X	X	X	X			
RJ-205		1300	GW	2				X	X	X	X	X	X			

Sample Receipt
Cooler Condition: Good
Cooler Temperature: 10°C
Custody Seals: Yes ☒ No ☐

Billing Information
P.O. #: 6843
Bill To: EAJ Chris hine

Turnaround Time Requested
Normal ☒
Rush ☐

For Lab Use Only
Proposal #: ____

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: [signature]	Signature: J. Wilkinson	Signature:	Signature:	Signature:	Signature:
Printed Name: DEREK ZAK	Printed Name: J. Wilkinson	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: EAJ	Firm: SiREM	Firm:	Firm:	Firm:	Firm:
Date/Time: 08/15/13 1500	Date/Time: 8/16/13 1420	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Distribution: White - Return to Originator: Yellow - Lab Copy: Pink - Retained by Client

VAPORTECH Services, Inc.

8/22/2013

Mr. Chris Hine
Environmental Alliance, Inc.
5341 Limestone Rd
Wilmington, DE 19808

Dear Chris:

Enclosed are the sample data report, chain of custody record and quality control data for the sample(s) received on August 16, 2013 for your project; 1863 - Former BAE.

Please give me a call if you have questions or I can be of further assistance. Thank you for using Vaportech Services.

Sincerely,

David J. Masdea

Enclosure:

1158 Pittsburgh Road, Suite 201, Valencia, PA 16059
Ph: 724-898-2622 Fx: 724-898-2633 www.vaportechservices.com

Vaportech Services, Inc

EAI21-3507

Environmental Alliance, Inc
Project: 1863 - Former BAE
-- WATER SAMPLES --

SAMPLE NAME	METHANE (ug/l)	ETHANE (ug/l)	ETHENE (ug/l)	FILE NAME	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED
W-16	1.8	ND	ND	D62A.52A	08/14/13	08/16/13	08/21/13
W-1	ND	ND	0.01	D62A.53A	08/14/13	08/16/13	08/21/13
RW-1	ND	ND	ND	D62A.54A	08/14/13	08/16/13	08/21/13
PW-8A	ND	ND	ND	D62A.55A	08/14/13	08/16/13	08/21/13
PW-11	ND	ND	ND	D62A.56A	08/14/13	08/16/13	08/21/13
PW-10A	ND	ND	ND	D62A.57A	08/14/13	08/16/13	08/21/13
RI-20s	0.7	ND	ND	D62A.58A	08/14/13	08/16/13	08/21/13
PQL	0.2	0.01	0.01				

PQL - denotes lower 'Practical Quantitation Limit'

ND - denotes 'Not Detected' at or above the lower Practical Quantitation Limit

22-Aug-13

Reviewed by:

Vaportech Services, Inc

Environmental Alliance, Inc
Laboratory Project(s): 3507
-- WATER SAMPLES --

QUALITY CONTROL

CONTINUING CALIBRATION CHECK (FID)

STANDARD: "54"
FILE NAME: D62A.47A
DATE ANALYZED: 08/21/13

COMPOUND	KNOWN PPMV	RESULT PPMV	PERCENT DIFFERENCE
Methane	15.00	15.94	6.27
Ethane	15.00	14.66	2.28
Ethene	15.10	14.91	1.28

LABORATORY BLANK RESULTS (FID)

BLANK: CARRIER IN LOOP
FILE NAME: D62A.46A
DATE ANALYZED: 08/21/13

COMPOUND	BLANK PPMV	PRACTICAL QUANTITATION LIMIT PPMV
Methane	ND	1.00
Ethane	ND	0.02
Ethene	ND	0.02

ND - denotes 'Not Detected' at or above the lower Practical Quantitation Limit

22-Aug-13

Reviewed by:

EAI 21 - 3507

CHAIN-OF-CUSTODY RECORD

VAPORTECH Services, Inc.

Vaportech Services, Inc.
1158 Pittsburgh Road, Suite 201
Valencia, PA 16059
Phone: (724) 898-2622 Fax: (724) 898-2633
www.vaportechservices.com

Company Name: ENVIRONMENTAL ALLIANCE
Address: 5341 LIMESTONE Rd.
City: WILMINGTON **State:** DE **Zip:** 19808
Proj. Manager: CHRIS THOENY / Chris Hine
Proj. Name: FORMER BAE
Proj. Number: 1863
Phone #: 302-234-4400 **Fax #:**

Sampler's signature:

Purchase Order # 6842

Analysis Options: Enter letters in Requested Analysis columns below.

A	Light Hydrocarbons	F	BTEX
B	Permanent Gases	G	Unleaded Gasoline List
C	Methane	H	TPH (Specify range below)
D	Methane, Ethane, Ethylene Ethene	I	Chlorinated Hydrocarbons
E	Hydrogen	J	624 Compound List

Light Hydrocarbons: Methane, Ethylene, Propane, Propylene, iso-Butane, n-Butane
Permanent Gases: Carbon Dioxide, Oxygen, Nitrogen, Methane, Carbon Monoxide
BTEX: Benzene, Toluene, Ethyl Benzene, m & p -Xylene, o-Xylene
Unleaded Gasoline list: BTEX, MTBE, Cumene, Naphthalene
TPH Ranges: C1-C4, C5-C10, C4-C12, C11-C18
Chlorinated HC: 1,1-DCE, 1,1-DCA, Methylene Chloride, trans-1,2-DCE, cis-1,2-DCE, Chloroform 1,1,1-TCA, Carbon Tetrachloride, Trichloroethylene (TCE), Tetrachloroethylene (PCE)

Collection Date	Time	Number of Containers	Sample Matrix	Sample Identification	Requested Analysis				(Other)	Remarks	Lab Use	
08/14/13	0835	2	GW	W-16	D							
	0930	2	GW	W-1	D							
	0940	2	GW	RW-1	D							
	1025	2	GW	PW-8A	D							
	1100	2	GW	PW-11	D							
	1210	2	GW	PW-10A	D							
	1300	2	GW	RI-20S	D							

Results to : Chris HINE **Email:** Chine@envalliance.com
Invoice to : Chris Hine **Email:** chine@envalliance.com

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	EAI	08/15/13	1500		Vaportech	8/16/13	930
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Laboratory to return. YELLOW COPY: Submitter