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Our Contribution to the Environment®

April 30, 2014

Dr. Montague McPherson
Georgia Department of Natural Resources
Response and Remediation Program
Suite 1462 East Tower
2 Martin Luther King, Jr. Drive, S.E.
Atlanta, Georgia 30334-9000

Subject: **Third VIRP Semi-annual Progress Report**
Georgia Ports Authority-Bainbridge Terminal
HSI Site No. 10071
1321 Spring Creek Road,
Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19,
Bainbridge, Decatur County, Georgia

Dear Mr. McPherson:

On behalf of Georgia Ports Authority (GPA), Environmental International Corporation (EIC) is pleased to submit the attached documents as the Third Voluntary Investigation and Remediation Plan (VIRP) Semi-annual Progress Report for the above referenced site.

Enclosed are the following material:

1. One signed and sealed certification page for the Semi-annual Report.
2. One copy of EIC's Third VIRP Semi-annual Progress Report.
3. Two Compact Discs each with the report in searchable PDF format.

If you have any questions regarding this submittal, please contact Ms. Natalie Dawn of GPA at 912-963-5595 or me at the above location.

Sincerely,

ENVIRONMENTAL INTERNATIONAL CORPORATION

Raj Mahadevaiah, P.E., C.G.W.P.
President & CEO

Cc: Natalie Dawn, GPA

CERTIFICATION AND SUPPORTING DOCUMENTS
Third VIRP Semi-annual Progress Report
Georgia Ports Authority-Bainbridge Terminal
HSI Site No. 10071
April 30, 2014

"I certify under penalty of law that the accompanying report referenced above and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional engineer who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.

Furthermore, to document my direct oversight of the Voluntary Investigation and Remediation Plan (VIRP) development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division.

The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Basavaraj Mahadevaiah, GA PE No. 23198
Environmental International Corporation
770-772-7100, ext. 223

4/30/14
Date

Signature and Stamp

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

THIRD VIRP SEMI-ANNUAL PROGRESS REPORT

April 29, 2014

Submitted To:
GEORGIA ENVIRONMENTAL PROTECTION DIVISION
Georgia Department of Natural Resources
Response and Remediation Program
Suite 1462 East Tower
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Atlanta, Georgia 30334

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SECTION

1

1. INTRODUCTION

On behalf of Georgia Ports Authority (GPA), Environmental International Corporation (EIC) is submitting the Third Semi-annual Progress Report for Georgia Environmental Protection Division (EPD). This third semi-annual report was prepared as outlined in the Voluntary Investigation and Remediation Plan (VIRP) dated July 27, 2012 that was subsequently approved by the EPD on November 2, 2012 under the Voluntary Remediation Program (VRP).

1.1 PRIMARY OBJECTIVES

The primary objective of this report is to present a compilation of tasks completed or initiated by EIC during the six-month time frame covering the period from November 2013 through April 2014. This report documents the following tasks:

- Addressing comments from EPD
- Security fence installation for AOC-1
- Soil analysis within AOC-3
- Continued evaluation of COC trends in groundwater
- Ecological receptor analysis
- Aquifer characterization
- Long-term river level analysis
- Monitoring well activities
- Site conceptual model

SECTION

2

2. EPD COMMENT LETTER

GPA received a letter from the EPD, dated November 2, 2012, commenting on its review of both the VIRP submitted July 25, 2012 and the April 2012 First Annual Groundwater Monitoring Report. This letter is the last official response that VOPAK has received from the EPD. EIC provided an initial response to this letter in the second semi-annual report (EIC, 2013e). As EIC has further addressed the topics in this letter, the following subsections describe tasks that EIC has accomplished since November 2013.

2.1 HORIZONTAL DELINEATION

Comment 3 of the EPD's letter stated that the down-gradient edge of the benzenehexachloride (BHC) plume was not properly delineated as monitoring wells MW-12 and MW-17 appear to be side gradient of the center of the down-gradient leading edge of the plume.

As described in Section 8, EIC is planning to install a new monitoring well, to be designated as MW-23. This well will be located equidistant between wells MW-12 and MW-17 where the center of the down-gradient leading edge of the plume has been depicted in previous BHC plume maps. EIC plans to utilize this well as an additional data point in this crucial area, to better define the BHC plume.

2.2 CONTAMINATED SOIL MANAGMENT

2.2.1 AOC-1 Security Fencing

Comment 10 of the EPD's letter stated that the originally proposed security fencing at AOC-1 did not encompass all known risk reduction standards (RRS) exceedances. In the second semi-annual report, GPA submitted a revised fence line plan illustrating a fence which encompassed, not only all of the areas with RRS exceedances, but all areas of former soil sampling grids and, additionally, having an approximately 20-foot offset buffer from the sample grids. As discussed in Section 3.1, in January 2014, GPA installed the security fence per the revised fence line plan.

2.2.2 AOC-3 Soil Contamination

Comment 9 of the EPD's letter stated that soil within AOC-3 with a RRS exceedance, must either be excavated or otherwise addressed. During the preparation of the VIRP, EIC had relied on historic reports that indicated presence of potential soil contamination in AOC-3 based on certain sampling results. EIC had therefore envisioned removal of some soil from a "hot spot" area. GPA responded to this comment in the second semi-annual report that the horizontal extent of COCs within these soils should be delineated and necessary action would be taken based on the results.

As described in Section 3.2, however, EIC collected 10 confirmatory soil samples in around the previous sampling point where the original RRS exceedance was observed. EIC's sampling results indicated that all 10 samples were below RRS and delineation standards. As such, no remedial action is required in AOC-3.

SECTION

3

3. CONTAMINATED SOIL MANAGEMENT

3.1 AOC-1 SECURITY FENCING

3.1.1 Background

Soil contamination at the site has been delineated through extensive soil sampling completed during the period from 1993 through 2012. Based on the 14 sampling events completed during this time period, EIC designated three areas of concern (AOC) in the South parcel of the terminal. The largest of the three, AOC-1, is located to the south of the Rock Salt Warehouse (RSW). Figure 3-1 identifies the soil grid sampling locations within AOC-1 and the horizontal extent of soil with COCs exceeding RRS values.

As outlined in Section 4.1.1 of the VIRP, it is impractical to remediate or to remove the large volume of COCs contaminated soil from AOC-1 (EIC, 2012). Therefore, it was proposed that the contaminated soil would be left in place and managed through site covenants and engineering controls, thus preventing exposure of site workers, visitors, on-site employees, and the general public to BHC contamination. A security fence was proposed as the most practical engineering control for AOC-1.

3.1.2 Design Process

In designing the fence, EIC first developed a fence layout based on a review of the horizontal extent of soil contamination that exceeded RRS values in Figure 3-1 and considering EPD's requirement (comment letter dated November 2, 2012) that the fence should "encompass all RRS exceedances". The layout, setback with an approximately 20-foot buffer, ensured that the fence surrounded the historical soil sample grids that exceeded the RRS. In unpaved areas or, where the sample grids extended beneath the asphalt pavement of the main site driveway or the office parking lot, the fence was proposed to extend along the edge of the pavement – as the pavement acts as a surficial barrier limiting exposure.

After the fence alignment was finalized, EIC contracted a licensed surveyor to locate the proposed fence line adjacent to the RSW area. This survey was completed as discussed in the Second Semi-

Annual Progress Report submitted on October 31, 2014 (EIC, 2013e). EIC then utilized the survey data to prepare Figure 3-2 that illustrates the fence alignment and the gate locations. The primary criteria for the construction specifications of the fence was to prevent unauthorized entry. EIC designed the fence to meet the critieria as discussed in Appendix B of the Second Semi-Annual Progress Report and the design was based on general guidelines outlined by the U.S. Department of Defense and the Chain Link Fence Manufacturers Institute (DOD, 1993; CLFMI, 2013). The final fence design required 3-strands of barbed wire with a height of 1 foot along the top of the fence and limited the bottom of the fence to a height of no more than 2 inches above grade at any point along the fence. Also, the specifications included signage to be installed along the length of the fence. The signs installed along the fence line display the message, "Hazardous Area Authorized Personnel Only".

3.1.3 Installation

Utilizing EIC's fence design and bid specifications, GPA managed the bidding process and the selection of a contractor to complete the installation. Since gamma-BHC (Lindane) is the only BHC isomer at the site that meets the federal definition as a hazardous waste at the site, EIC generated Figures 3-3, 3-4, and 3-5 to illustrate the areas within AOC-1 where gamma-BHC concentrations were above the RRS. These figures illustrate the Lindane exceedances at depth intervals of 0-2 feet, 2-5 feet, and greater than 5 feet below grade, respectively. These figures were also provided to the fence installation contractor to provide guidance on remaining outside the contaminated areas when working in AOC-1 and for the general health and safety of terminal employees and site visitors authorized to work within the fenced area.

A security fence operation and maintenance manual was also prepared for GPA to ensure the integrity of the fence line and prevent potential security breaches. A copy of the manual is included as Attachment A.

3.2 AOC-3 SOIL SAMPLING

In response to Comment 9 of the EPD comment letter dated November 2, 2012, EIC conducted confirmatory soil sampling activities in AOC-3 in an area historically determined as a single "hot spot". This section presents the soil sampling program and an evaluation of the collected analytical data.

As established in the VIRP, the hot spot within AOC-3 was located along a drainage ditch/swale sediments. However, as all samples collected from these deposits by EIC were subaerial (not submerged in water), the collected samples were classified as soil rather than as sediment samples. As such, these samples are referred to as soil samples in this report.

3.2.1 Sampling Objectives

Shallow soil samples taken from AOC-3 prior to the VIRP submittal (Pre-VIRP samples) by a former consultant indicated a single RRS exceedance ("hot spot") of beta-BHC concentration within a 0 to 0.5-foot interval (soil sample SD-06), as illustrated in Figure 3-6. This soil sample was collected from the drainage ditch running east of Warehouses 1, 2, and 3 in December 2012. The primary objective of the current AOC-3 soil sampling program was to reconfirm whether COCs above RRS were present within the soil of the drainage features of AOC-3 and to delineate the extent of such contamination.

3.2.2 Soil Sampling Field Program

To verify if soil within AOC-3 continued to exceed the established RRS in the vicinity of the sample SD-06 location, EIC conducted 5 soil borings at SD-06 and in a radial area extending from the original sample location, as depicted in Figure 3-6. The borings were regularly spaced apart within a sampling grid centered upon SD-06. Each boring was extended to a depth of 1 foot below ground surface and soil samples were collected at intervals of from 0 to 0.5 foot and from 0.5 to 1 foot below ground surface. The soil boring and sampling protocol are described in the following sections.

3.2.2.1 Soil Boring Locations

As the coordinates of SD-06 were not documented by the previous consultant, EIC derived the approximate latitude and longitude of the area of this sample utilizing a drawing from a historical report, Quantum Geographic Information Systems (QGIS) software, and a recent aerial photograph. In the field, EIC utilized an I-Phone 4S with the "GPS Data Service" application to match the determined latitude and longitude to those displayed by QGIS. A recent aerial photograph illustrating the SD-06 sample location was also utilized in the field for locating the original sample location relative to observed site features. After the SD-06 sample location was located, a survey flag was placed to mark the location as S1. EIC then marked 4 additional points located radially outwards at a distance of 10 feet away from S1. All locations were marked with a survey flag resulting in locations upstream, downstream, the western bank, and the eastern bank. Soil borings at these locations were identified as borings S3N, S2SA, S5W, and S4E, respectively, and as illustrated in Figure 3-6. These 4 additional sample points were chosen to delineate the horizontal extent of the only known COCs above RRS within AOC-3.

3.2.2.2 Sampling Protocol

The soil sampling program was conducted in accordance with the current U.S. EPA soil sampling procedure "Field Branches Quality System and Technical Procedures" (FBQSTP) per the EPD regulations. Each soil sample was collected following the technique established in the standard operating procedure (SOP) SESDPROC-300-R2 under the FBQSTP (EPA, 2011a).

Once the boring locations had been appropriately marked as described in Section 3.2.2.1, each soil boring location was cleared of any surface debris such as tree limbs, leaves, or other forms of detritus before sampling. Once all vegetation cover had been cleared, EIC placed a 2-foot by 2-foot piece of clean plastic sheeting with a hole large enough for a 1.5-inch sand auger bit to pass through. EIC then utilized a decontaminated stainless steel hand auger to advance a 1.5-inch diameter sand auger bit 6 inches and subsequently 1 foot at each of the 5 locations. Prior to boring, the auger was marked using a permanent marker at 6 inches and 1 foot from the bottom of the auger bit as a guide for determining sampling depths.

After each soil sample was retrieved, the sampled matrix was deposited into a decontaminated stainless steel bowl for homogenization. The homogenization process was completed in accordance with EPD's guidance document SESDPROC-300-R2. The soil samples were thoroughly mixed to ensure that each sample was representative of the 6-inch column of collected soil. Each homogenized sample was then packed tightly into a four-ounce, labeled glass jar and the jar cap secured tightly. Threads on the containers and lids were cleaned to ensure a tight seal when closed.

After each sample was collected, the auger was decontaminated with Alconox spray, rinsed with deionized water, and dried before reuse in accordance with the EPA's Field Equipment and Decontamination guidelines SESDPROC-205-R2 (EPA, 2011b).

3.2.2.3 Sample Analysis

On November 5, 2013, EIC collected 2 soil samples from each of the 5 soil boring locations (a total of 10 samples), as depicted in Figure 3-6, following the sampling protocol in Section 3.2.2.2. All sample bottles were properly sealed and labeled in the field. Each sample was then stored with ice in an insulated container ("cooler") provided by the laboratory. A completed chain of custody form accompanied all samples. EIC submitted all soil samples to Xenco Laboratories, a Georgia Department of Natural Resources-certified laboratory located in Norcross, Georgia, for analysis. The laboratory analyzed the soil samples for organochlorine pesticides contaminants using EPA Method 8081B/3660B (sulfur cleanup). The laboratory report is included as Attachment B.

3.2.3 Data Evaluation

EIC conducted an evaluation of the data compiled from field sampling and laboratory analysis to further define the horizontal extent of COCs above RRS in the only location within drainage feature where it had previously been determined to occur. The following section outlines the results of EIC's evaluation.

Table 3-1 is a tabulation of the soil sampling results for the primary COCs comprised of BHC isomers and other pesticides. Figure 3-6 displays a summary of the BHC isomers for each boring

location, pre- and post-VIRP. Those values that exceed the delineation criteria and RRS are shown in blue and red colors, respectively.

From to Figure 3-6, it is apparent that COCs above RRS limits were previously (pre-VIRP) detected at one soil sample location. Referring to Table 3-1 and Figure 3-6, it is clear that there were no COCs detected above RRS or delineation criteria (nor above laboratory detection limits either) in any of the 10 post-VIRP samples that EIC collected at AOC-3. Based on these findings, it is evident that the RRS exceedance originally observed within the drainage feature soil is no longer present. Therefore, the horizontal extent of shallow COCs within the soil of AOC-3 is considered to be fully delineated within AOC-3.

3.2.4 Remedial Tasks

GPA has completed the horizontal delineation of the COCs in the shallow soils within AOC-3 area. The COCs in all 10 soil samples collected were, not only below RRS limits and delineation standards, but were also below method detection limits. Based on these results, no further remedial action for soil should be necessary in AOC-3. Consequently, GPA proposes elimination of AOC-3 as an area of concern.

SECTION

4

4. QUARTERLY GROUNDWATER MONITORING

EIC conducted a groundwater monitoring event in the fourth quarter of 2013 in December 2013. During this event, groundwater samples were collected from site monitoring wells and analyzed for pesticide COCs and selected inorganic constituents that may be indicative of natural attenuation. Pesticide contamination analyses included the primary COCs, composed of isomers, α-BHC, β-BHC, δ-BHC, and γ-BHC (Lindane). Under the approved VIRP, all available monitoring wells are being utilized for the monitored natural attenuation (MNA) remedial approach. The following subsections describe the fourth quarterly monitoring program event and results.

4.1 GROUNDWATER MONITORING FIELD PROGRAM

During the December 2013 event, EIC conducted groundwater monitoring at 21 of the 23 available monitoring wells tabulated in Table 4-1. Two monitoring wells, MW-13 and MW-15, could not be utilized, as the groundwater table was below the screened interval in these wells. The two wells are marked as dry on the attached figures of this report. Included in the 21 wells utilized are three monitoring wells (MW-5D, MW-6, and MW-14) that are defined by EIC as being "deep" as they are at or deeper than 50 feet below ground surface (bgs). A site layout map including monitoring well locations is illustrated in Figure 4-1.

4.1.1 Sampling Protocol

The groundwater sampling program was conducted in accordance with the current U.S. EPA groundwater sampling procedure "Field Branches Quality System and Technical Procedures" (FBQSTP) per EPD regulations. Each monitoring well was gauged, purged, and sampled following the "low-flow" purge technique established in the standard operating procedure (SOP) SESDPROC-301-R3 under the FBQSTP (EPA, 2013).

4.1.2 Site Access

Prior to EIC's site visit, EIC coordinated with the GPA regarding on-site field activities and contacted Agrium U.S., Inc. (Agrium) for permission to access and to conduct off-site well monitoring on the adjacent property to the east of the GPA site where wells MW-15, MW-16, MW-18, MW-19, MW-20, and MW-21 are located. EIC also contacted the Georgia Department of Transportation (DOT) to obtain permission to access monitoring well MW-22, located on the north right-of-way of Georgia State Highway 253/Spring Creek Road.

4.1.3 Field Procedures

4.1.3.1 Groundwater Gauging

Prior to sampling, EIC gauged each well with a Solinst Model 122 interface meter ("oil/water interface probe") to determine the static depth to groundwater. EIC utilized top-of-casing (TOC) elevations from the most recent well surveys to determine the current groundwater elevations. The gauging data for the December 2013 monitoring event is tabulated in Table 4-1.

4.1.3.2 Groundwater Sampling

Prior to initiating field well monitoring activities, EIC placed a 55-gallon drum to containerize investigative derived waste (IDW) purged groundwater in the vicinity of the southeast corner of the Rock Salt Warehouse (R.S.W.). EIC then placed a non-hazardous label on this drum with the shipper noted as "Georgia Ports Authority", contents noted as "IDW Well Purge Water", and accumulation date noted as "12/3/2013". EIC utilized a peristaltic pump for purging and sampling groundwater. Disposable 1/4-inch inner diameter (ID) Teflon-lined tubing was utilized in all wells for purging. Groundwater from each monitoring well was pumped via the peristaltic pump through a multi-parameter field water quality meter equipped with a flow-through cell.

EIC calculated the appropriate Teflon tubing length and intake depth for each well by considering the following monitoring well characteristics: the field measured depth to groundwater, the field verified difference between the height of the well TOC relative to the ground surface, the field verified depth to bottom, and the documented well total depth and screened interval on well logs. Following the SOP SESDPROC-301-R3, EIC set the tubing intake approximately at the center of the wetted screen interval. The tubing was lowered below this depth if the water level dropped close the pump intake during pumping.

During purging at each well, water quality parameters including temperature, pH, oxidation-reduction potential (ORP), specific conductivity, turbidity, dissolved oxygen (DO), rate of evacuation, and depth to water were measured at approximately 5-minute intervals until certain parameters stabilized per SESDPROC-301-R3. EIC considered that parameters were stabilized when three consecutive readings were within ± 0.1 for pH and ± 5% for specific conductivity. Reasonable attempts were made to reach 0.2 mg/L DO and a turbidity reading below 10

nephelometric turbidity units (NTUs). These measurements were recorded on EIC's Well Purging and Sampling Data field logs (Attachment C). Groundwater quality field parameters after stabilization and prior to sample collection are summarized in Table 4-2. It should be noted that at three of the wells sampled during the December 2013 sampling event, MW-5A, MW-6, and MW-16, contained turbidity levels greater than 10 NTUs after reasonable attempts were made to achieve this goal prior to sampling.

After water quality parameters stabilized at each accessible well, EIC cut the Teflon-lined tubing connecting the peristaltic pump to the flow-through cell. Groundwater samples were then collected by filling the sample bottles with water discharged directly from the pump. All sample bottles were properly sealed and labeled in the field. Each sample set was then stored with ice in insulated cooler containers provided by the laboratory. Completed chain of custody forms accompanied all samples.

EIC submitted all groundwater samples for analysis to Xenco Laboratories, a Georgia Department of Natural Resources (GADNR) certified laboratory, located in Norcross, Georgia. Laboratory analysis included organochlorine pesticides contaminants using EPA Method 8081B/3660B (sulfur cleanup); manganese via EPA Method 6010C; chloride, nitrate, and sulfate via EPA Method 9056A; total organic carbon via EPA Method 9060A; and methane, ethane, and ethene gases via EPA Method RSK-175. The laboratory report for the December 2013 sampling event is included as Attachment D.

Because the holding time for the analysis of samples via EPA method 9056A is only 48 hours, EIC coordinated with the laboratory to receive overnight shipments of samples collected for this particular analysis. The remaining samples were received by the laboratory immediately after EIC personnel returned from the site, for all the aforementioned analysis. At the end of sampling activities, the 55-gallon drum containing IDW purge water was sealed by EIC.

4.2 QUALITY ASSURANCE AND QUALITY CONTROL

During the groundwater sampling process for December 2013, EIC collected additional samples for quality assurance and the validation of analytical results. One additional sample was collected from monitoring wells MW-6 and MW-22 for organochlorine pesticides laboratory matrix spike analysis using EPA method 8081B/3660B procedures.

Additionally, EIC collected one complete duplicate sample set from well MW-10 and one complete equipment blank sample set for analysis via EPA methods, 8081B/3660B, 9060A, 6010C, 9056A, and RSK-175. The equipment blank sample set was collected by pumping de-ionized water through a 10-foot length of Teflon-lined tubing and approximately 6-inches of silicone tubing. All sample bottles were properly sealed and labeled in the field. Each sample set was then stored with ice in coolers and shipped to the laboratory along with the rest of the samples.

In the duplicate MW-10 sample, alpha-, beta-, delta-, and gamma-BHC constituents were all above the detection limits, as with the primary MW-10 sample. The duplicate sample results were significantly lower in alpha-, delta-, and gamma-BHC and higher in beta-BHC concentrations. The difference between the constituent concentrations of the two samples ranged from 2.635 µg/L for alpha-BHC to 0.84 µg/L for beta-BHC. All of the analytical results for the equipment blank were below the detection limit, with the exception of manganese, with a relatively low concentration of 0.00220 mg/L. Manganese is a common laboratory introduced contaminant.

To prevent cross-contamination, disposable Teflon-lined tubing and disposable silicone tubing were used to collect all samples. EIC's oil/water interface probe and tube cutter were field decontaminated prior to use and between sample locations by washing in a phosphate-free detergent solution and rinsing with pressurized de-ionized (DI) water. After each sample was collected, the multi-parameter water quality meter, the parameter sensors, and the flow-through cell were decontaminated by disassembling and cleaning with pressurized DI water and, if needed, phosphate-free detergent.

4.3 DATA EVALUATION

EIC conducted an evaluation of the data compiled from field measurements and laboratory analyses to determine the groundwater potentiometric surface and the horizontal and vertical extent of the prevailing contaminant plumes for the December 2013 monitoring event. Data from the sampling event was compared with the data from the baseline event in March 2013 and each of the two subsequent quarterly sampling events to determine if monitored natural attenuation is in progress at the site and is likely to lead to remedial end points.

4.3.1 Groundwater Potentiometric Map

From gauging data summarized in Tables 4-1 for December 2013, EIC prepared a groundwater potentiometric surface map, illustrated in Figure 4-2. The contour interval used for the groundwater potentiometric surface analysis matched those used in previous sampling events recorded in the second semi-annual report. In general, groundwater flows to the southeast towards the Flint River.

The approximate mean potentiometric surface elevation for the site was lower, by approximately 1 foot, in December 2013 as compared to the elevation on September 2013. Also the potentiometric surface generally has a lower gradient and profile across the majority of the area mapped. Many of the potentiometric surface features discussed in previous quarterly reports have persisted at the site during the December 2013 event. Two trough features that had extended from the areas of wells MW-4U and MW-7 towards an area approximately 200 feet north of the office, where they converged, and continued as a single trough towards well MW-17 in September 2013 were more prominent in December 2013 (Figure 4-2). A large equipotential surface area has persisted at the site in the vicinity of the main office and Warehouses 2 and 3. This feature was more prominent during the December 2013 event as compared to September 2013 and previous quarterly monitoring events. It extends from north to south along the main driveway of the site. Wells MW-13 and MW-

15 were dry in December 2013 due to the overall lower potentiometric surface elevation.

4.3.2 Horizontal Extent of COC Plumes

Table 4-3 summarizes the results of the analysis of organochlorine pesticides from both the current groundwater sampling program and from historical data. Pesticide contamination analysis included the primary COC, benzenehexachloride (BHC) which consists of isomers alpha-BHC, beta-BHC, delta-BHC, and gamma-BHC (Lindane), as well as toxaphene, and other pesticides. All parameters that exceeded the Type 4 RRS are marked in red and are bold. The results of the MNA analysis of selected inorganic constituents are summarized in Table 4-4.

Figures 4-3 through 4-5 illustrate the horizontal extent of the current BHC plumes comprised of alpha-BHC, beta-BHC, and delta-BHC, respectively. In preparing these plume maps, EIC plotted the monitoring well locations based on both historical data well surveys EIC conducted in June 2013. EIC also utilized the same isoconcentration contour intervals as those illustrated in the VIRP submittal to allow for a comparative evaluation of the plume maps over time. Additionally, the limits of the RRS concentrations and the delineation criterion are illustrated, to evaluate the horizontal extent of pesticides that require remediation.

4.3.2.1 Alpha-BHC Plume

Referring to Figure 4-3, it is apparent that both the concentrations and horizontal extent of the alpha-BHC contaminant plume increased as compared to the September 2013 sampling event. During the December 2013 event, the highest concentration of alpha-BHC occurred near MW-10 (3.12 μg/L). The highest concentration within the plume at the site has previously been located near MW-6 (which was 1.51 μg/L in September 2013), however in December 2013, the second highest concentration at the site occurred at MW-6 at 1.68 μg/L. As such, the known horizontal distribution of the alpha-BHC plume continues to primarily extend north to south from the areas of wells MW-10 and MW-22 to the vicinity of well MW-8, and extends west to east between the vicinity of the RSW building and MW-15, respectively. This indicates that the long axis of the primary plume is primarily aligned to the direction of groundwater flow illustrated in Figure 4-2.

The concentration of the alpha-BHC constituent has increased most notably near wells MW-10, MW-5A, MW-5D and MW-8 as compared to the concentrations depicted in the alpha-BHC plume map of September 2013. Referring to Figure 4-3, it is apparent that the horizontal delineation of the alpha-BHC plume above RRS is complete, except to the north beyond Spring Creek Road.

4.3.2.2 Beta-BHC Plume

Referring to Figure 4-4, overall the beta-BHC plume increased significantly in concentration but remained relatively unchanged in horizontal extent from December 2013 to September 2013. The highest concentration of beta-BHC occurred at MW-22 (37.4 μg/L). Subsequently lower

concentrations above RRS limits occurred at wells (in order) MW-20, MW-5D, MW-5A and MW-10. As such, the known horizontal distribution of the beta-BHC plume above RRS generally extends north to south from the area of wells MW-10, MW-20, and MW-22 to MW-12, and extends west to east from near the RSW to approximately 75 feet east of MW-15 and 75 feet west of MW-16. This indicates that the long axis of the primary plume is primarily aligned with the direction of groundwater flow.

It is notable that the highest concentration of beta-BHC continues to be found at MW-22, located immediately down-gradient of the Georgia Gulf Sulfur (GGS) property and north of Spring Creek Road but hydraulically up-gradient of GPA. Although, MW-13 was found dry during the December 2013 sampling event, the isolated plume illustrated in March 2013 is presumed to be present. EIC will further evaluate the isolated plume and provide this analysis in a later semi-annual report. Referring to Figure 4-4, it appears that the horizontal delineation of the beta-BHC plume above RRS is complete, except to the north beyond Spring Creek Road.

4.3.2.3 Delta-BHC Plume

Referring to Figure 4-5, it is apparent that the concentration and horizontal extent of the Delta-BHC plume have increased since September 2013. The highest concentration of delta-BHC occurred both at wells MW-6 and MW-10 (2.71 µg/L) with concentrations above RRS at wells MW-5D, MW22, MW-5A and MW-8. As such, the horizontal distribution of the delta-BHC plume above RRS extends north to south from the areas of MW-22 and MW-10 to the vicinity of MW-8 and extends west to east from approximately 150 feet west of MW-6 to approximately 200 feet east of Warehouse 2. This distribution indicates that the long axis of the plume is primarily aligned parallel to the direction of groundwater flow.

The southern down-gradient boundary of the delta-BHC plume extended slightly southward as compared to the south delta-BHC plume boundary of September 2013. The east and west RRS limits of the plume have shifted outward, expanding the southern end of the plume significantly. This is primarily due to an increase in the delta-BHC concentrations near wells MW-5A and MW-5D. Referring to Figure 4-5, it is apparent that the horizontal delineation of the delta-BHC plume above RRS is complete, except to the north beyond Spring Creek Road.

4.3.2.4 Inorganic Parameters

From Table 4-4, it is apparent that relatively high concentrations of nitrates have been present at several off-site wells located on the Agrium property since March 2013. Referring to Figure 4-6, during the December 2013 groundwater monitoring event, the highest concentration of nitrate occurred near well MW-18 at 80.1 µg/L. This is consistent with the previous September 2013 monitoring event and historically the location near MW-18 has been an area of high concentration. Comparing the December 2013 nitrate plume to all previous nitrate plumes since March 2013, it appears that the nitrate concentrations are on a decreasing trend (EIC, 2013b; EIC, 2013c; EIC, 2013d).

Referring to Figure 4-7, relatively high concentrations of sulfate remain present on GPA property centered approximately 200 feet south of the RSW building. Relatively high concentrations of sulfate were also present in the north parcel located immediately down-gradient of the GGS property in the vicinity of wells MW-10 and MW-22. The highest concentration of sulfate occurred near MW-6 (545 µg/L), which is consistent with all previous VIRP sampling events. As the sulfate plume extends north and up-gradient beyond Spring Creek Road, the primary sulfate source appears to be to the north of the GPA property. EIC will continue to review the potential impact of the nitrate, sulfate and other inorganic parameters from data obtained during subsequent groundwater monitoring events.

4.3.3 Vertical Extent of COC Plumes

There are two deep wells at the site, MW-14 and MW-17, that have screened intervals at or deeper than 50 feet bgs. According to historical well construction logs, the screened intervals in monitoring wells MW-14 and MW-17 range in depth from 67 to 72 feet bgs and from 50 to 60 feet bgs, respectively. EIC has therefore utilized the aforementioned wells to monitor the vertical migration of COCs.

Referring to Table 4-3, following historical trends, the concentrations of alpha-BHC, beta-BHC, and delta-BHC at wells MW-14 and MW-17, have remained below RRS. Considering that the groundwater monitoring event discussed in this report represents the fourth VIRP groundwater monitoring event, the delineation of the vertical extent of BHC is confirmed to be less than 50 feet bgs. Utilizing subsequent groundwater monitoring event data, EIC will continue to evaluate and ascertain if the vertical extent of COCs continues remains within the shallow zone.

4.3.4 BHC Plume Stability

As discussed in Section 4.3.2, compared to the September 2013 monitoring event, overall, the concentrations of the alpha-BHC, beta-BHC, and delta-BHC plumes above RRS have increased while the horizontal extent of these constituents above RRS has slightly increased only for alpha-BHC and delta-BHC. Both of these plumes, however, remain upgradient of the Flint River. The horizontal extent of the beta-BHC plume above RRS has remained relatively stable and also remains upgradient of the Flint River. EIC will continue to evaluate data from subsequent groundwater monitoring events to determine plume stability.

SECTION

5

5. ECOLOGICAL RECEPTOR EVALUATION

As proposed in the VIRP, EIC utilized the Georgia Natural Heritage Program (GNHP) and other resources to conduct an ecological receptor evaluation of the site. The assessment entailed a survey of potential ecological receptors, as well as an evaluation of any effects from site COC within all three areas of concern. Potential ecological receptors EIC considered included rare, impaired, and critically impaired plant or animal species.

Referencing the GNHP database, maintained by the GADNR Wildlife Resources Division (WRD), EIC determined that within quarter quadrangle code 3008485SW, the site lies within the Bainbridge SW Quadrangle. Within the area depicted in the Bainbridge SW Quadrangle, potential habitat data was available for 13 total rare species (WRD, 2013).

Based on data published by the WRD and the Natural Resources Spatial Analysis Lab (NARSAL), as well as the ecological survey conducted by EIC, EIC has concluded that no rare species have the potential for direct exposure to COCs within any of the three AOCs and only two species have the potential for indirect exposure to COCs in AOC-3. As discussed in Section 2.2.2, however, the COCs in AOC-3 area are below RRS and delineation standards. As such, AOC-3 no longer presents a concern for the COC's sampled. Explicit discussion of field activities and the results of the ecological receptor analyses are chronicled in Appendix A.

SECTION

6

6. AQUIFER CHARACTERIZATION

Field tests to define aquifer hydraulic characteristics and to define the plume stability for the COCs exceeding the RRS values were proposed in the VIRP, (EIC, 2012). Accordingly, EIC conducted multiple field slug tests at three select wells in March 2014. The slug tests were performed following the procedures outlined in EPA SOP number 2046. During the field program, extensive water level data recorded by down-hole pressure transducer data loggers was downloaded to a field laptop computer for data analysis. EIC is currently compiling, processing, and analyzing the field data and will provide an evaluation of the data and the aquifer hydraulic characteristics in the next semi-annual report.

SECTION

7

7. LONG-TERM RIVER LEVEL ANALYSIS

The Flint River is a major surface water body adjacent to the site. Considering that the subsurface at the site is comprised of a network of storm water conveyance structures, a sheet pile bulkhead wall, and historic backfill, EIC has initiated an evaluation of the potential impact of the Flint River water fluctuations on groundwater levels at the site. This evaluation will be useful in evaluating the hydrodynamics of groundwater flow within the site.

EIC has therefore installed two down-hole pressure transducers with data-logging capabilities to continuously record water levels near at two locations for an extended period. The first transducer was installed in MW-12, located approximately 125 feet north west of the riverbank, and the second transducer was installed in a newly installed stilling well (SW-1) (Figure 7-1) within the Flint River. EIC installed the stilling well and transducers during the week of March 24, 2014. Down-hole water level fluctuation data are being collected over a three-month period. After this period, EIC will download the data from the transducers and evaluate the data. The findings will be reported in the next semi-annual report.

SECTION

8

8. MONITORING WELL ACTIVITIES

In response to Comment 3 of the November 2, 2012 EPD VIRP Comments letter, in which the EPD essentially states that the southern extent of COCs in groundwater above RRS was not delineated down-gradient, particularly between wells MW-12 and MW-17 near the Flint River, EIC recently installed a new monitoring well (MW-23) equidistant to wells MW-12 and MW-17. This well, illustrated in Figure 7-1, will provide an additional groundwater monitoring point to delineate the down-gradient extent of the COCs. In addition, EIC has repaired the majority of existing wells that were either damaged, lacking parts, or which had become filled with silt/fines, as listed in the well inventory of the First Semi-annual Report (EIC, 2013a) and based on subsequent field observations. EIC also placed new weather-resistant pad locks on each of the monitoring wells.

EIC designed and supervised the installation of MW-23 and conducted the well repairs utilizing a drilling contractor. MW-23 was completed in accordance with SESDGUID-101-R1 and O.C.G.A. 12-5-120. During the installation of the soil boring for this well, EIC recorded the lithology of soils encountered and the well construction specifications. EIC also supervised well development, decontamination procedures, and IDW storage. Utilizing a licensed land surveyor, EIC proposes to survey the TOC elevations of new well MW-23, the stilling well SW-1, wells with the TOC raised or lowered during repairs, and possibly the remaining wells not surveyed by EIC. Details of the new well installation, well repairs, and of the well survey will be reported in the next semi-annual report.

SECTION

9

9. SITE CONCEPTUAL MODEL

Based on the results of the aforementioned site activities, EIC is in the process of updating the Site Conceptual Model (SCM). As discussed in Section 2 of the VIRP, the SCM will progressively update data on release sources, extent of COC plumes, probable fate and transport mechanisms, potential exposure pathways, potential receptors, and COC plumes mobility and stability.

Subsequently, EIC will refine and reevaluate the SCM as more information about the site is obtained. This includes information obtained from the ongoing long term groundwater monitoring program as well as specific studies such as long term river level monitoring and aquifer testing. The SCM will be included in the next semi-annual report.

SECTION

10

10. SUMMARY

During the six-month period from November through April 2013, EIC has continued to successfully conduct site activities to meet the primary objectives set forth in the VIRP. Tasks completed or initiated during this period are as follows.

- A security fence was installed surrounding AOC-1 as an engineering control to prevent exposure to the COCs in soil. A fence line operating and maintenance plan was prepared to implement long-term engineering and institutional controls in this area.
- As discussed in the second semi-annual report, the delineation of COCs in AOC-2 is complete. GPA is currently developing options for engineering and institutional controls in this area.
- EIC proposes the elimination of AOC-3 as an area of concern, since COCs from all soil samples collected were not only below RRS levels and delineation standards, but were below method detection limits. As such, no additional remediation actions are required within AOC-3.
- Based the COC trend analysis the BHC plume horizontal extent appears to be relatively stable. However, concentrations continue to increase, most notably in the northern up-gradient section of the site at and near Spring Creek Road. Considering seasonal variations, it is too early draw further conclusions on the cause of the increase. Concurrently, the southern down-gradient extent of the BHC plume above RRS has been delineated, and remains up-gradient of the Flint River. Also, the vertical extent of the BHC plume above RRS has been delineated above a depth of 50 feet, utilizing two site deep wells.
- Based on an ecological receptor evaluation and pending the removal of AOC-3 as an area of concern from the site, EIC has made the following conclusions regarding site exposure to nearby wildlife. No rare, impaired, nor critically impaired plant or animal species have the potential for direct or indirect exposure to COCs within any of the three established AOCs. Additionally, no evidence of rare, impaired, or critically impaired plant or animal species has been observed at the site.
- Slug tests were performed in selected wells to define aquifer hydraulic characteristics and the resulting data is being evaluated to define aquifer characteristics. A long-term river level analysis was initiated to determine the effects of the Flint River on the groundwater

potentiometric surface at the site. Additionally, a new well was installed between monitoring wells MW-12 and MW-17 to further refine the horizontal delineation of the down-gradient extent of the COC plume. Soil characteristics from the soil logged during the installation of this well will be evaluated and added to the data set of existing well logs. Also, maintenance and repair to varying extents was conducted on the majority of the preexisting monitoring wells that had become damaged, as documented in the well inventory of the first semi-annual progress report.

- Based on the results of the aforementioned site activities, EIC will further update the Site Conceptual Model (SCM).

SECTION

11

11. SUMMARY OF HOURS

A monthly summary of hours invoiced for the aforementioned tasks during the period from October 2013 through March 2014 are summarized in Attachment E.

SECTION

12

12. REFERENCES

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TABLES

Table 3-1: AOC-3 Soil Pesticides Data Summary Table, GPA Bainbridge Terminal, Bainbridge, Georgia

Method SW-846 8081B			alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	Heptachlor	Aldrin	Heptachlor epoxide	Endosulfan I	Dieldrin	4,4'-DDE	Endrin	Endosulfan II	4,4'-DDD	Endosulfan sulfate	4,4'-DDT	Methoxychlor	Endrin aldehyde	gamma-Chlordane	alpha-Chlordane	Endrin ketone	Toxaphene
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Site-Specific RRS Values (mg/kg)			0.66	3.1	0.1	12		0.66				7.7			11		11						
Type RRS			3	4	4	4		3				4			4		4						
Soil Delineation Concentration Criteria			0.66	3.1	0.1	12		0.66				7.7			11		11						10.88
ID	Depth (ft)	Sample Date																					
S1	0 - 0.5	11/5/13 10:43	0.00199 U	0.00186 U	0.00186 U	0.00319 U	0.00155 U	0.00399 U	0.000753 U	0.00253 U	0.00288 U	0.00368 U	0.001110 U	0.00253 U	0.000975 U	0.00261 U	0.00177 U	0.00253 U	0.00199 U	0.00239 U	0.00239 U	0.00261 U	**0.228**
	0.5 - 1.0	11/5/13 10:55	0.00186 U	0.00173 U	0.00173 U	0.00297 U	0.00144 U	0.00371 U	0.000701 U	0.00235 U	0.00268 U	0.00342 U	0.001030 U	0.00235 U	0.000908 U	0.00243 U	0.00165 U	0.00235 U	0.00186 U	0.00223 U	0.00223 U	0.00243 U	**0.131** J
S2S A	0 - 0.5	11/5/13 11:46	0.00194 U	0.00181 U	0.00181 U	0.00310 U	0.00150 U	0.00387 U	0.000732 U	0.00245 U	0.00280 U	0.00357 U	0.001080 U	0.00245 U	0.000947 U	0.00254 U	0.00172 U	0.00245 U	0.00194 U	0.00232 U	0.00232 U	0.00254 U	**0.224**
	0.5 - 1.0	11/5/13 11:56	0.00193 U	0.00180 U	0.00180 U	0.00309 U	0.00150 U	0.00386 U	0.000730 U	0.00245 U	0.00279 U	0.00356 U	0.001070 U	0.00245 U	0.000945 U	0.00253 U	0.00172 U	0.00245 U	0.00193 U	0.00232 U	0.00232 U	0.02530 U	**0.139** J
S3 N	0 - 0.5	11/5/13 12:07	0.00180 U	0.00168 U	0.00168 U	0.00288 U	0.00139 U	0.00359 U	0.000679 U	0.00228 U	0.00260 U	0.00332 U	0.000999 U	0.00228 U	0.000879 U	0.00236 U	0.00160 U	0.00228 U	0.00180 U	0.00216 U	0.00216 U	0.00236 U	**0.113** J
	0.5 - 1.0	11/5/13 12:18	0.00178 U	0.00166 U	0.00166 U	0.00285 U	0.00138 U	0.00356 U	0.000673 U	0.00226 U	0.00257 U	0.00328 U	0.000989 U	0.00226 U	0.000871 U	0.00233 U	0.00158 U	0.00226 U	0.00178 U	0.00214 U	0.00214 U	0.00233 U	**0.464**
S4 E	0 - 0.5	11/5/13 12:32	0.00179 U	0.00167 U	0.00167 U	0.00287 U	0.00139 U	0.00358 U	0.000676 U	0.00227 U	0.00259 U	0.00330 U	0.000995 U	0.00227 U	0.000875 U	0.00235 U	0.00159 U	0.00227 U	0.00179 U	0.00215 U	0.00215 U	0.00235 U	**0.259**
	0.5 - 1.0	11/5/13 12:43	0.00179 U	0.00167 U	0.00167 U	0.00286 U	0.00139 U	0.00357 U	0.000675 U	0.00226 U	0.00258 U	0.00330 U	0.000993 U	0.00226 U	0.000874 U	0.00234 U	0.00159 U	0.00226 U	0.00179 U	0.00214 U	0.00214 U	0.00234 U	**0.357**
S5 W	0 - 0.5	11/5/13 12:56	0.00174 U	0.00162 U	0.00162 U	0.00278 U	0.00135 U	0.00347 U	0.000656 U	0.00220 U	0.00251 U	0.00320 U	0.000965 U	0.00220 U	0.000849 U	0.00228 U	0.00154 U	0.00220 U	0.00174 U	0.00208 U	0.00208 U	0.00228 U	**0.389**
	0.5 - 1.0	11/5/13 13:03	0.00653 U	0.00619 U	0.00619 U	0.01060 U	0.00514 U	0.01330 U	0.002510 U	0.00840 U	0.00958 U	0.01220 U	0.003690 U	0.00840 U	0.003240 U	0.00870 U	0.00590 U	0.00840 U	0.00663 U	0.00796 U	0.00796 U	0.00870 U	**3.31**

Notes:

RRS = Risk Reduction Standard.

mg/kg = Milligrams per kilogram

NA = Not Applicable.

J = Target analyte concentration was positively identified below the quantization limit and above the detection limit.

U = Analyte was not detected.

0.389 = Results above detection limit

Table 4-1: Well Gauging Data for December 2013 Monitoring Event at GPA Bainbridge Terminal, Bainbridge, Georgia

Well ID # (Well Diameter, in.)	TOC Elevation	DTW	Groundwater Surface Elevation	Notes
	ft.	ft.	ft.	
MW-1 (2)	105.24	27.22	78.02	gauged from mark well on casing TOC
MW-1A (2)	105.36	27.36	78.00	gauged from high side of TOC on side towards the nearby railroad
MW-2 (2)	99.70	20.97	78.73	gauged from mark on high east side of TOC
MW-3 * (2)	97.13	19.34	77.79	gauged from mark on high side of TOC
MW-4U (2)	103.54	25.53	78.01	gauged from mark on high side of TOC
MW-5A (2)	96.48	18.96	77.52	gauged from mark on well casing
MW-5D (2)	95.93	18.36	77.57	gauged from mark on well casing, samples had black particles suspended in purge water
MW-6 (2)	102.06	24.44	77.62	gauged from high side of TOC, collected matrix spike
MW-7 (2)	98.16	19.91	78.25	gauged from mark on well casing, initial purge water in tubing is turbid, attempted using 23 feet of tubing and hit bottom, measured total well depth was updated and tubing was remarked to 21 feet
MW-8 (2)	93.39	15.85	77.54	bailed ~1 inch of water from vault prior to gauging, gauged from mark on well casing
MW-9 ** (2)	NA	NA	NA	
MW-10 * (2)	100.02	21.85	78.17	gauged from mark on TOC towards Spring Creek Road, duplicate sample taken
MW-11 (2)	100.92	22.77	78.15	gauged from mark on TOC towards Spring Creek Road, Horiba battery died @ 7:40, battery replaced and parameter monitoring continued
MW-12 (2)	93.89	16.70	77.19	gauged from mark on north side of TOC, 1" of standing water in well vault still not above TOC, bailed water begore gauging
MW-13 (2)	93.35	16.57	< 76.78	Well is dry, no sample taken
MW-14 (2)	101.91	24.16	77.75	1/2" of water in well vault just below TOC
MW-15 (2)	98.03	20.11	< 77.92	Well is dry, no sample taken
MW-16 * (2)	97.17	19.03	78.14	gauged from mark on TOC towards Spring Creek Road, 1 1/2" of water in vault, still below TOC, sampled with NTU > 10 because it kept rising steadily
MW-17 (2)	93.50	15.85	77.65	gauged from mark on high east side of TOC, well is deformed ~1 ft below ground surface, tan/grey tint of water in cylinder, tan bacteria floating in samples when collected
MW-18 (2)	95.48	17.64	77.84	gauged from mark on north side of TOC
MW-19 (2)	96.54	18.71	77.83	1 1/2" of water in well casing above cap, water bailed out prior to opening cap to gauge well, gauged from mark on well casing, began raining heavily at 14:36
MW-20 * (2)	96.61	18.49	78.12	gauged from mark on well casing, began raining heavily as samples were being taken
MW-21 * (2)	97.58	19.47	78.11	gauged from mark on north side of TOC, 1/2" of water over TOC in well vault, bailed out prior to opening well cap
MW-22 * (2)	98.90	20.76	78.14	gauged from mark on TOC opposite to Spring Creek road, matrix spike sample taken

Notes:

All DTW measurements were recorded prior to purging utilizing a Solinst interface meter, Model:122

Depth to bottom of each well was recorded utilizing the interface meter after each sample was collected

*TOC elevations were based on survey conducted by Donaldson, Garrett, & Associates, Inc. on 6/20/2013.

** Well Not Located

TOC = Top of Casing

DTW = Depth to Water below TOC NA = Not Applicable

DTB = Depth to Bottom below TOC NM = Not Measured

DRY = Groundwater level is below bottom of well screen, therefore no sample was taken

Table 4-2: Groundwater Quality Field Parameters Summary for December 2013 Monitoring Event at GPA Bainbridge Terminal, Bainbridge, Georgia

Well ID # (Well Diameter, in.)	Sample Date	Groundwater Quality Field Parameters					
		Temp (Celcius)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
MW-1 (2)	7/13/2011	NM	3.65	618.00	NM	0.00	2.91
	3/28/2013	17.07	3.36	574.00	0.462	1.40	2.95
	6/4/2013	22.64	3.35	510.00	0.452	29.60	3.13
	9/3/2013	20.54	3.58	392.00	0.48	0.00	4.31
	12/3/2013	18.45	3.47	358.00	0.715	2.20	4.58
MW-1A (2)	7/13/2011	NM	3.79	572.00	NM	4.30	2.28
	3/28/2013	16.35	3.43	583.00	0.548	1.50	2.80
	6/4/2013	21.86	3.41	494.00	0.595	3.80	2.52
	9/3/2013	21.7	3.61	386.00	0.662	2.10	2.89
	12/3/2013	19.01	3.45	340.00	0.916	1.90	2.46
MW-2 (2)	7/14/2011	NM	4.24	544.00	NM	0.00	0.83
	3/28/2013	18.47	4.60	499.00	0.049	0.70	4.72
	6/3/2013	21.40	4.30	391.00	0.059	6.10	3.45
	9/4/2013	20.32	4.63	245.00	0.053	0.00	3.37
	12/4/2013	18.84	4.46	294.00	0.076	0.00	1.37
MW-3 (2)	3/28/2013	NL	NL	NL	NL	NL	NL
	6/4/2013	NS	NS	NS	NS	NS	NS
	9/5/2013	21.77	4.90	240.00	0.057	31.00	4.38
	12/4/2013	18.49	5.05	275.00	0.074	0.00	6.27
MW-4U (2)	3/28/2013	16.30	3.83	555.00	0.269	7.40	3.32
	6/4/2013	23.44	3.67	470.00	0.185	2.30	4.29
	9/3/2013	20.52	3.97	361.00	0.261	0.00	4.54
	12/3/2013	19.75	3.94	309.00	0.243	0.00	4.63
MW-5A (2)	7/15/2011	NM	3.96	360.00	NM	0.10	2.41
	4/6/2012	23.16	3.55	279.00	0.543	9.80	1.59
	11/20/2012	24.52	3.19	221.00	0.335	0.94	3.60
	3/26/2013	20.45	4.33	577.00	0.321	2.80	9.21
	6/4/2013	24.98	3.87	434.00	0.467	12.70	2.07
	9/5/2013	24.49	4.34	299.00	0.256	0.00	3.69
	12/5/2013	23.77	3.99	302.00	0.673	38.80	1.21
MW-5D (2)	7/15/2011	NM	5.91	266.00	NM	0.20	0.00
	4/6/2012	22.45	5.18	158.90	1.205	2.80	0.86
	11/20/2012	25.50	3.59	209.00	1.597	5.94	0.32
	3/26/2013	19.39	7.70	237.00	2.240	3.20	0.88
	6/4/2013	25.53	6.26	9.00	5.55	6.70	0.54
	9/4/2013	26.16	5.43	91.00	0.67	0.00	0.70
	12/5/2013	24.29	4.82	244.00	1.540	0.00	0.30
MW-6 (2)	7/12/2011	NM	5.69	204.00	NM	9.20	0.00
	4/4/2012	23.18	5.30	105.60	1.452	4.50	0.30
	11/20/2012	20.63	5.15	208.00	1.776	3.49	0.66
	3/26/2013	19.38	5.49	241.00	1.750	11.70	0.79
	6/5/2013	23.17	5.50	72.00	1.720	41.10	0.70
	9/3/2013	22.47	5.42	79.00	1.770	36.80	3.16
	12/5/2013	22.56	5.51	50.00	1.650	19.00	0.39
MW-7 (2)	3/27/2013	18.94	4.41	440.00	0.413	9.00	1.82
	6/3/2013	24.07	3.66	398.00	0.535	4.10	2.91
	9/4/2013	23.81	4.38	301.00	0.512	7.80	0.92
	12/3/2013	22.96	3.82	301.00	0.715	3.30	1.55

Table 4-2: Groundwater Quality Field Parameters Summary for December 2013 Monitoring Event at GPA Bainbridge Terminal, Bainbridge, Georgia

Well ID # (Well Diameter, in.)	Sample Date	Groundwater Quality Field Parameters					
		Temp (Celcius)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
MW-8 (2)	7/14/2011	NM	6.89	109.00	NM	3.30	1.98
	4/5/2012	23.95	3.63	349.20	0.935	0.00	1.88
	11/20/2012	24.86	3.07	207.00	1.156	7.47	2.20
	3/26/2013	20.10	3.64	606.00	1.550	1.40	5.26
	6/5/2013	23.97	3.90	467.00	0.758	1.30	2.26
	9/4/2013	26.94	3.73	275.00	1.10	0.00	2.20
	12/5/2013	24.28	3.96	322.00	0.637	0.00	1.31
MW-9 (2)	3/25/2013	NL	NL	NL	NL	NL	NL
	6/5/2013	NL	NL	NL	NL	NL	NL
	9/4/2013	NL	NL	NL	NL	NL	NL
	12/3/2013	NL	NL	NL	NL	NL	NL
MW-10 (2)	7/12/2011	NM	3.77	582.00	NM	7.30	0.00
	4/5/2012	22.47	3.51	407.20	0.988	5.30	1.38
	11/21/2012	22.12	3.63	210.00	0.771	0.77	0.44
	3/27/2013	17.82	3.48	542.00	0.931	2.10	2.37
	6/5/2013	22.32	3.73	471.00	0.930	0.40	2.17
	9/5/2013	22.36	3.67	326.00	0.927	0.00	1.51
	12/4/2013	22.45	3.77	317.00	0.948	0.00	0.86
MW-11 (2)	7/14/2011	NM	5.87	446.00	NM	0.20	2.09
	4/6/2012	18.64	3.64	364.10	0.247	8.60	5.51
	3/28/2013	18.14	3.55	549.00	0.203	3.90	3.96
	6/4/2013	21.60	3.65	446.00	0.198	54.80	3.33
	9/3/2013	20.21	3.77	371.00	0.186	11.70	7.24
	12/3/2013	19.29	3.73	337.00	0.205	0.00	4.38
MW-12 (2)	7/14/2011	NM	5.41	251.00	NM	1.10	1.06
	4/5/2012	24.22	6.55	351.20	0.878	0.70	0.33
	11/20/2012	23.30	6.92	203.00	1.316	1.82	0.42
	3/26/2013	18.79	5.50	508.00	0.860	0.00	3.47
	6/5/2013	21.30	6.83	200.00	0.856	0.00	0.89
	9/3/2013	23.85	5.63	118.00	1.240	2.30	1.07
	12/4/2013	23.62	6.89	51.00	0.753	0.00	0.82
MW-13 (2)	3/27/2013	17.64	4.64	192.00	0.396	1.90	1.37
	6/6/2013	DRY	DRY	DRY	DRY	DRY	DRY
	9/5/2013	21.38	4.87	171.00	0.50	0.00	0.80
	12/4/2013	DRY	DRY	DRY	DRY	DRY	DRY
MW-14 (2)	7/12/2011	NM	7.33	-20.00	NM	9.20	0.00
	4/4/2012	24.13	8.57	42.50	0.254	0.00	4.74
	3/26/2013	20.13	7.05	-19.00	0.234	15.80	0.79
	6/5/2013	21.37	6.92	-121.00	0.270	9.90	0.82
	9/3/2013	23.28	7.00	-107.00	0.273	54.00	1.41
	12/5/2013	22.11	7.06	-115.00	0.247	0.00	0.64
MW-15 (2)	4/5/2012	22.34	5.98	21.30	5.679	9.60	4.62
	3/25/2013	19.49	5.56	287.00	8.560	154.00	0.96
	6/6/2013	DRY	DRY	DRY	DRY	DRY	DRY
	9/4/2013	25.55	6.50	-84.00	3.02	135.00	0.60
	12/3/2013	DRY	DRY	DRY	DRY	DRY	DRY
MW-16 (2)	7/11/2011	NM	3.70	519.00	NM	0.50	3.93
	4/5/2012	23.17	4.57	272.00	0.036	0.00	5.71
	3/27/2013	16.47	4.85	503.00	0.027	16.80	8.83
	6/5/2013	21.94	4.83	381.00	0.027	2.30	6.34
	9/3/2013	24.49	5.26	181.00	0.041	116.00	3.00
	12/4/2013	23.15	4.93	222.00	0.035	36.90	3.13

Table 4-2: Groundwater Quality Field Parameters Summary for December 2013 Monitoring Event at GPA Bainbridge Terminal, Bainbridge, Georgia

Well ID # (Well Diameter, in.)	Sample Date	Groundwater Quality Field Parameters					
		Temp (Celcius)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
MW-17 (2)	7/13/2011	NM	7.06	361.00	NM	8.10	0.67
	4/6/2012	19.34	6.01	-32.00	0.032	10.20	0.72
	11/20/2012	20.72	6.73	223.00	0.482	8.16	0.34
	3/26/2013	18.35	7.38	388.00	0.434	13.60	1.01
	6/5/2013	21.74	7.26	195.00	0.502	14.20	0.76
	9/4/2013	21.34	7.17	62.00	0.523	12.30	0.68
	12/4/2013	20.15	7.16	72.00	0.544	8.00	0.75
MW-18 (2)	7/15/2011	NM	5.22	372.00	NM	0.00	2.08
	4/5/2012	23.64	6.62	192.00	1.844	2.40	0.31
	3/25/2013	19.85	6.44	254.00	2.180	10.90	1.29
	6/6/2013	23.32	6.20	271.00	2.270	0.00	0.80
	9/4/2013	26.11	6.64	48.00	1.950	0.00	0.74
	12/3/2013	24.18	6.55	90.00	2.240	1.20	1.36
MW-19 (2)	4/5/2012	22.95	3.74	379.60	1.216	6.10	0.40
	3/25/2013	18.79	4.00	437.00	1.270	1.10	1.35
	6/6/2013	22.51	3.66	470.00	1.260	0.00	0.59
	9/4/2013	23.26	3.80	384.00	1.380	61.70	0.73
	12/3/2013	23.26	3.79	295.00	1.250	1.20	1.20
MW-20 (2)	7/12/2011	NM	4.49	516.00	NM	4.90	3.01
	4/5/2012	22.32	4.27	327.90	0.305	0.30	5.03
	11/21/2012	22.39	4.10	220.00	0.214	2.34	3.26
	3/27/2013	19.11	4.10	530.00	0.211	4.40	6.82
	6/6/2013	20.87	3.90	458.00	0.255	0.00	5.49
	9/5/2013	24.11	4.09	295.00	0.212	0.00	4.07
	12/4/2013	22.53	4.12	285.00	0.319	0.00	3.54
MW-21 (2)	7/12/2011	NM	3.80	590.00	NM	4.50	3.01
	4/5/2012	21.47	4.64	269.40	0.192	1.70	6.25
	11/21/2012	23.00	3.90	217.00	0.295	0.56	2.73
	3/27/2013	18.39	4.72	511.00	0.181	5.10	6.95
	6/6/2013	20.77	4.99	354.00	0.189	7.30	5.02
	9/3/2013	22.40	5.15	217.00	0.184	43.30	5.15
	12/4/2013	21.89	4.18	301.00	0.303	0.00	3.17
MW-22 (2)	4/5/2012	23.08	3.79	338.90	0.576	7.40	3.61
	11/20/2012	23.40	3.10	218.00	0.444	1.10	2.73
	3/27/2013	21.10	3.60	565.00	0.402	20.30	4.00
	6/6/2013	21.95	3.57	472.00	0.559	0.70	2.48
	9/5/2013	25.52	3.70	307.00	0.588	10.30	1.84
	12/5/2013	24.08	3.86	196.00	0.614	0.00	1.26

Sources: Analytical results for samples collected in April 2012 and earlier are from CH2M Hill 2012, AccuTest 2012, and ECT 2012

Notes:

Field parameters were recorded by EIC from 12/2/2013 to 12/5/2013, after parameters had stabilized and prior to sample collection.

Parameters were measured with a Horiba U-52 Water Quality Meter with a Flow-Through Cell.

SU = Standard Unit
mV = Millivolts
mS/cm = Microsiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = Milligrams per liter
NL = Well not located
NS = Well not sampled
NM = Field Parameter not measured
DRY = Well was dry and therefore not sampled

Table 4-3: Groundwater Data Summary Table for December 2013 Monitoring Event - Pesticides
GPA Bainbridge Terminal, Bainbridge, Georgia

	SW-846 8081B	alpha-BHC		beta-BHC		delta-BHC		gamma-BHC (Lindane)		Heptachlor		Aldrin		Heptachlor epoxide		Endosulfan I		Dieldrin		4,4'-DDE		Endrin		Endosulfan II		4,4'-DDD		Endosulfan sulfate		4,4'-DDT		Methoxychlor		Endrin aldehyde		gamma-Chlordane		alpha-Chlordane		Endrin ketone		Toxaphene	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Site-Specific RRS Values (ug/L)		0.5		1.6		0.1		2.6				0.2								8.4						12				8.4															
	Type RRS	4		4		4		4				4								4						4				4															
Well ID	Sample Date																																											
MW-1	7/13/2011	0.051	U	0.1	J	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.102	U	0.102	U	0.102	U	**0.103**		0.102	U	0.102	U	**0.0092**	J	0.51	U	0.102	U	0.051	U	0.051	U	0.102	U	5.1	U
	3/28/2013	0.0017	U	0.0015	U	0.0009	U	0.0007	U	0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	0.0013	U	0.215	U
	6/4/2013	0.0017	U	0.0015	U	0.0009	U	0.0007	U	0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	0.0013	U	0.215	U
	9/3/2013	0.0101	U	0.00230	U	0.00200	U	0.00160	U	0.00290	U	0.00260	U	0.00280	U	0.00240	U	0.00430	U	0.00350	U	0.00460	U	0.00450	U	0.00370	U	0.00700	U	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
	12/3/2013	0.00763	U	0.00722	U	0.00742	U	0.00722	U	0.01320	U	0.01050	U	0.00856	U	0.00814	U	0.000464	U	0.00835	U	0.01160	U	0.00928	U	0.00856	U	0.01000	U	0.01150	U	0.0108	U	0.00835	U	0.00722	U	0.00835	U	0.00742	U	0.00515	U
MW-1A	7/13/2011	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.102	U	0.102	U	0.102	U	0.102	U	0.102	U	0.102	U	0.102	U	0.51	U	0.102	U	0.051	U	0.051	U	0.102	U	5.1	U
	3/28/2013	0.0017	U	0.0015	U	0.0009	U	0.0007	U	0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	0.0013	U	0.215	U
	6/4/2013	0.0017	U	0.0015	U	0.0009	U	0.0007	U	0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	0.0013	U	0.215	U
	9/3/2013	0.0101	U	0.00230	U	0.00200	U	0.00160	U	0.00290	U	0.00260	U	0.00280	U	0.00240	U	0.00430	U	0.00350	U	0.00460	U	0.00450	U	0.00370	U	0.00700	U	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
	12/3/2013	0.00751	U	0.00711	U	0.00731	U	0.00711	U	0.01300	U	0.01040	U	0.00843	U	0.00802	U	0.000457	U	0.00822	U	0.01150	U	0.00914	U	0.00843	U	0.00985	U	0.01140	U	0.0107	U	0.00822	U	0.00711	U	0.00822	U	0.00731	U	0.00508	U
MW-2	7/14/2011	0.05	U	0.05	U	0.05		0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.5	U	0.1	U	0.05	U	0.05	U	0.1	U	5	U
	3/28/2013	0.0017	U	0.0015	U	0.0009	U	0.0007	U	0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	0.0013	U	0.215	U
	6/3/2013	0.0017	U	0.0015	U	0.0009	U	0.0007	U	0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	0.0013	U	0.215	U
	9/2/2013	0.0101	U	0.00230	U	0.00200	U	0.00160	U	0.00290	U	0.00260	U	0.00280	U	0.00240	U	0.00430	U	0.00350	U	0.00460	U	0.00450	U	0.00370	U	0.00700	U	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
	12/4/2013	0.00751	U	0.00711	U	0.00731	U	0.00711	U	0.01300	U	0.01040	U	0.00843	U	0.00802	U	0.000457	U	0.00822	U	0.01150	U	0.00914	U	0.00843	U	0.00985	U	0.01140	U	0.0107	U	0.00822	U	0.00711	U	0.00822	U	0.00731	U	0.00508	U
MW-3	3/28/2013		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL
	6/3/2013		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS
	9/5/2013	0.0101	U	0.00230	U	0.00200	U	0.00160	U	0.00290	U	0.00260	U	0.00280	U	0.00240	U	0.00430	U	0.00350	U	0.00460	U	0.00450	U	0.00370	U	0.00700	U	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
	12/4/2013	0.00871	U	0.00824	U	0.00847	U	0.00824	U	0.01510	U	0.01200	U	0.00976	U	0.00929	U	0.000529	U	0.00953	U	0.01330	U	0.01060	U	0.00976	U	0.01140	U	0.01320	U	0.0124	U	0.00953	U	0.00824	U	0.00953	U	0.00847	U	0.00588	U
MW-4U	3/28/2013	0.0017	U	0.0015	U	0.0009	U	0.0007	U	0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	0.0013	U	0.215	U
	6/4/2013	0.0017	U	0.0015	U	0.0009	U	0.0007	U	0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	0.0013	U	0.215	U
	9/3/2013	0.0101	U	0.00230	U	0.00200	U	0.00160	U	0.00290	U	0.00260	U	0.00280	U	0.00240	U	0.00430	U	0.00350	U	0.00460	U	0.00450	U	0.00370	U	0.00700	U	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
	12/3/2013	0.00822	U	0.00788	U	0.00800	U	0.00778	U	0.01420	U	0.01130	U	0.00922	U	0.00878	U	0.000500	U	0.00900	U	0.01260	U	0.01000	U	0.00922	U	0.01080	U	0.01240	U	0.0117	U	0.00900	U	0.00778	U	0.00900	U	0.00800	U	0.00556	U
MW-5A	7/15/2011	**0.13**		**1.41**		0.559		**0.1**	J	0.104	U	0.104	U	0.104	U	0.104	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	1.04	U	0.208	U	0.104	U	0.104	U	0.208	U	10.4	U
	4/6/2012	**0.43**	J	15.6	UBL	1.6	UBL	**0.223**	J	1.01	U	0.217	J	1.01	U	1.01	U	**5.07**		2.02	U	2.02	U	2.02	U	2.02	U	2.02	U	2.02	U	10.1	U	2.02	U	1.01	U	0.104	U	**0.625**	J	101	U
	11/20/2012	**0.022**	J	5.1	*	**0.09**		**0.019**	J	0.0049	U	**0.08**		0.0049	U	0.0049	U	**5.6**	*	0.0098	U	0.0098	U	0.0049	U	0.0098	U	0.0098	U	0.0098	U	0.0098	U	0.0098	U	0.0098	U	0.0049	U	0.0049	U	**0.19**		0.98	U
	3/26/2013	**0.0995**		2.34		0.242		**0.076**		0.0019	U	0.002	U	0.0007	U	0.002	U	**2.12**		0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	**0.0724**	J	0.215	U
	6/7/2013	**0.154**		4.2		0.348		**0.113**		0.0019	U	**0.0782**		0.0007	U	0.002	U	**5.41**		0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	**0.122**		0.215	U
	9/5/2013	0.0101	U	**0.389**		0.0020	U	0.00160	U	0.00290	U	**0.0286**	J	**0.236**		0.00240	U	**2.75**	D	0.00350	U	0.00460	U	0.00450	U	0.00370	U	0.00700	U	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	**0.0398**	J	0.423	U
	12/5/2013	**0.488**		10.2	D	1.24		**0.426**		0.01420	U	0.0113	U	0.00922	U	0.00878	U	**5.93**	D	0.00900	U	0.01260	U	0.01000	U	0.00922	U	0.01080	U	0.01240	U	0.0117	U	0.00900	U	0.00778	U	0.00900	U	**0.872**		0.00556	U
MW-5D	7/1/2011	**1**		8.7		3.7			NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM
	4/15/2008	**0.19**		12		0.86		**0.081**		0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	**0.061**		0.051	U
	8/3/2009	**1.18**	J	23.3		4.7		**0.538**	J	2.02	U	2.02	U	2.02	U	2.02	U	**0.284**	J	4.04	U	4.04	U	4.04	U	4.04	U	4.04	U	4.04	U	20.2	U	4.04	U	2.02		2.02	U	4.04	U	202	U
	7/15/2011	0.5	U	8.61		0.47	J	**0.538**	J	0.5	U	0.5	U	0.5	U	0.5	U	**5.6**		1	U	1	U	1	U	1	U	1	U	1	U	5	U	1	U	0.5	U	0.5	U	1	U	50	U
	4/6/2012	0.66		6	UBL	2.1	UBL	**0.544**		0.51	U	0.51	U	0.51	U	0.51	U	1.02	U	1.02	U	1.02	U	1.02	U	1.02	U	1.02	U	1.02	U	5.1	U	1.02	U	5.1	U	5.1	U	**1.02**		51	U
	11/20/2012	0.72		5.2	*	2.5	*	**0.68**		0.0049	U	0.0049	U	0.0049	U	0.0049	U	**0.079**		0.0098	U	0.0098	U	0.0049	U	0.0098	U	0.0098	U	0.0098	U	0.0098	U	0.0098	U	0.0049	U	0.0049	U	0.0098	U	0.98	U
	3/26/2013	0.0017	U	**0.119**		0.0009	U	0.0007	U	0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022		0.0015	U	0.0011	U	0.0013	U	0.215	U
	6/4/2013	**0.215**		2.49		0.567		0.225		0.0019	U	0.002	U	0.007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022		0.0015	U	0.0011	U	0.0013	U	0.215	U
	9/4/2013	0.0101	U	**0.120**		0.002	U	0.0016	U	0.00290	U	0.00260	U	0.00280	U	0.00240	U	0.00430	U	0.00350	U	0.00460	U	0.00450	U	0.00370	U	0.00700	U	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
	12/5/2013	0.597		11.3	D	2.19	D	**0.779**		0.01510	U	0.01200	U	0.00976	U	0.00929	U	**0.116**		0.00953	U	0.01330	U	0.01060	U	0.00976	U	0.01140	U	0.01320	U	0.0124	U	0.00953	U	0.00824	U	0.00953	U	0.00847	U	0.00588	U
MW-6	9/1/2001	1.84		1.39		2.22		**0.31**			NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM
	8/1/2002	1.2		1		3.6		**0.11**			NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM
	4/14/2008	1.7		1.1		3.5		**0.0079**	J	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U
	8/4/2009	2.36		1.7		6.7		0.505	U	0.505	U	0.505	U	0.505	U	0.505	U	1.01	U	1.01	U	1.01	U	1.01	U	1.01	U	1.01	U	1.01	U	5.05	U	1.01	U	0.505	U	0.505	U	1.01	U	50.5	U
	7/12/2011	2.5		2.5		7.9		0.526	U	0.526	U	0.526	U	0.526	U	0.526	U	1.05	U	1.05	U	1.05	U	1.05	U	1.05	U	1.05	U	1.05	U	5.26	U	1.05	U	0.526	U	0.526	U	1.05	U	52.6	U
	4/5/2012	1.4		1.6		2.54	UBL	0.253	U	0.253	U	0.253	U	0.253	U	0.253	U	0.505	U	0.505	U	0.505	U	0.505	U	0.505	U	0.505	U	0.505	U	2.53	U	0.505	U	0.253	U	0.253	U	0.505	U	25.3	U
	11/20/2012	1.4	*	1.3	*	2.6	*	**0.013**	J***	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0098	U	0.0098	U	0.0049	U	0.0098	U	0.0098	U	0.0098	U	0.0098	U	0.0098	U	0.0049	U	0.0049	U	0.0098	U	0.98	U
	3/26/2013	1.29		**1.32**		2.53		0.0007	U	0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	0.0013	U	0.215	U
	6/5/2013	1.23		**1.36**		1.69		0.0007	U	0.0019	U	0.002	U	0.007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022		0.0015	U	0.0011	U	0.0013	U	0.215	U
	9/3/2013	1.51	D	1.61	D	2.33	D	**0.0143**	J	**2.22**	D	**0.0106**	J	0.00280	U	0.00240	U	0.00430	U	0.00350	U	0.00460	U	0.00450	U	0.00370	U	0.00700	U	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
	12/5/2013	1.68		1.67		2.71	DX	**0.0350**		0.0142	U	0.0113	U	0.00922	U	0.00878	U	**0.000522**	J	0.00900	U	0.01260	U	0.01000	U	0.00922	U	0.01080	U	0.01240	U	0.0117	U	0.00900	U	0.00778	U	0.00900	U	0.00800	U	0.00556	U
MW-7	3/27/2013	**0.03**	J	**0.273**		0.0009	U	0.0007	U	0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	0.0013	U	0.215	U
	6/3/2013	0.0017	U	**0.489**		0.0009	U	**0.0524**		0.0019	U	0.002	U	0.007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022		0.0015	U	0.0011	U	0.0013	U	0.215	U
	9/4/2013	**0.0613**		**0.365**		0.00200	U	**0.0332**	J	0.00290	U	0.00260	U	0.00280	U	0.00240	U	0.00430	U	0.00350	U	0.00460	U	0.00450	U	0.00370	U	0.00700	U	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
	12/3/2013	**0.0227**		**0.310**		**0.01260**	J	**0.0487**		0.01420	U	0.01130	U	0.00922	U	0.00878	U	**0.00184**	J	0.00900	U	0.01260	U	0.01000	U	0.00922	U	0.01080	U	0.01240	U	0.0117	U	0.00900	U	0.00778	U	0.00900	U	0.00800	U	0.00556	U
MW-8	9/2/2001	0.1	U	**0.22**		0.1	U	0.1	U		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM
	4/15/2008	**0.31**		1.7		0.46		**0.2**		0.05	U	0.05	U	0.05	U	0.05	U	**0.011**	J	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.5	U
	7/14/2011	0.527		2.66		1.1		**0.277**		0.25	U	0.25	U	0.25	U	0.25	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	2.5	U	0.5	U	0.25	U	0.25	U	0.5	U	25	U
	4/5/2012	**0.227**		1.99		0.3	UBL	**0.124**		0.101	U	0.101	U	0.101	U	0.101	U	0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	1.01	U	0.202	U	1.01	U	1.01	U	0.202	U	10.1	U
	11/20/2012	**0.21**		2.1	*	0.28		**0.13**		0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0097	U	0.0097	U	0.0049	U	0.0097	U	0.0097	U	0.0097	U	0.0097	U	0.0097	U	0.0049	U	0.0049	U	0.0097	U	0.97	U
	3/26/2013	**0.0315**	J	**1.47**		0.0009	U	**0.036**	J	0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	0.0013	U	0.215	U
	6/5/2013	**0.266**		**1.15**		0.215		**0.147**		0.0019	U	0.002	U	0.007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022		0.0015	U	0.0011	U	0.0013	U	0.215	U
	9/4/2013	**0.162**		1.68	D	0.112		**0.108**		0.00290	U	0.00260	U	0.00280	U	0.00240	U	0.00961	J	0.00350	U	0.00460	U	0.00450	U	0.00370	U	0.00700	U	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
	12/5/2013	0.536		1.77		0.655		**0.383**		0.01420	U	0.01130	U	0.00922	U	0.00878	U	**0.0101**	J	0.00900	U	0.01260	U	0.01000	U	0.00922	U	0.01080	U	0.01240	U	0.0117	U	0.00900	U	0.00778	U	0.00900	U	0.00800	U	0.00556	U
MW-9	3/25/2013		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL
	6/5/2013		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL
	9/4/2013		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL
	12/3/2013		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL

Table 4-3: Groundwater Data Summary Table for December 2013 Monitoring Event - Pesticides
GPA Bainbridge Terminal, Bainbridge, Georgia

	SW-846 8081B	alpha-BHC		beta-BHC		delta-BHC		gamma-BHC (Lindane)		Heptachlor		Aldrin		Heptachlor epoxide		Endosulfan I		Dieldrin		4,4'-DDE		Endrin		Endosulfan II		4,4'-DDD		Endosulfan sulfate		4,4'-DDT		Methoxychlor		Endrin aldehyde		gamma-Chlordane		alpha-Chlordane		Endrin ketone		Toxaphene	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Site-Specific RRS Values (ug/L)		0.5		1.6		0.1		2.6				0.2								8.4						12				8.4															
	Type RRS	4		4		4		4				4								4						4				4															
Well ID	Sample Date																																												
MW-10	4/1/2002	1.9		9		3.7		0.86			NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	6/1/2002	1.5		8.8		1.8		0.7			NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	6/3/2002	1.5	J	8.8	J	1.8	J	0.7	J	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.2	U	0.2	U	0.5	U	0.2	U	0.5	U	0.2	U	0.3	U	0.2	U	0.5	U	0.5	U			NM		2	U
	4/14/2008	2		5.4		0.95		0.89		0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.51	U
	8/5/2009	1.45		6.9		1.8		0.564		0.505	U	0.505	U	0.505	U	0.505	U	1.01	U	1.01	U	1.01	U	1.01	U	1.01	U	1.01	U	1.01	U	5.05	U	1.01	U	0.505	U	0.505	U	1.01	U	50.5	U
	7/12/2011	1.2		13		2.1		0.53		0.521	U	0.521	U	0.521	U	0.521	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	5.21	U	1.04	U	0.521	U	0.521	U	1.04	U	52.1	U
	4/5/2012	1.36		9		1.2	UBL	0.534		0.51	U	0.51	U	0.51	U	0.51	U	1.02	U	1.02	U	1.02	U	1.02	U	1.02	U	1.02	U	1.02	U	5.1	U	1.02	U	5.1	U	5.1	U	1.02	U	51	U
	11/21/2012	0.71		6.8	*	0.46	J*	0.35		0.0048	U	0.0048	U	0.0048	U	0.0048	U	0.0048	U	0.0095	U	0.0095	U	0.0048	U	0.0095	U	0.0095	U	0.0095	U	0.0095	U	0.0095	U	0.0048	U	0.0048	U	0.0095	U	0.95	U
	3/27/2013	0.899		6.76		0.683		0.38		0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	0.0013	U	0.215	U
	6/5/2013	0.427		5.79		0.372		0.181		0.0019	U	0.002	U	0.007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022		0.0015	U	0.0011	U	0.0013	U	0.215	U
	9/5/2013	0.650		8.60	D	0.511		0.307		0.346		0.00260	U	0.00280	U	0.00240	U	0.00961	J	0.00350	U	0.00460	U	0.00450	U	0.00370	U	0.00700	U	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
	12/4/2013	3.120		8.43	D	2.71		1.45		0.0640	U	0.05100	U	0.04150	U	0.03950	U	0.00725	J	0.04050	U	0.05650	U	0.04500	U	0.04150	U	0.04850	U	0.05600	U	0.0525	U	0.04050	U	0.03500	U	0.04050	U	0.03600	U	0.0250	U
MW-11	7/14/2011	0.05	U	0.072		0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.5	U	0.1	U	0.05	U	0.05	U	0.1	U	5	U
	4/6/2012	0.051	U	0.03	UBL	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.102	U	0.102	U	0.102	U	0.102	U	0.102	U	0.102	U	0.102	U	0.51	U	0.102	U	0.51	U	0.51	U	0.102	U	5.1	U
	3/28/2013	0.0017	U	0.0015	U	0.0009	U	0.0007	U	0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	0.0013	U	0.215	U
	6/4/2013	0.0017	U	0.0015	U	0.0009	U	0.0007	U	0.0019	U	0.002	U	0.007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022		0.0015	U	0.0011	U	0.0013	U	0.215	U
	9/3/2013	0.0101	U	0.00230	U	0.00200	U	0.00160	U	0.00290	U	0.00260	U	0.00280	U	0.00240	U	0.00430	U	0.00350	U	0.00460	U	0.00450	U	0.00370	U	0.00700	U	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
	12/3/2013	0.00755	U	0.00714	U	0.00735	U	0.00714	U	0.01310	U	0.01040	U	0.00847	U	0.00806	U	0.000459	U	0.00827	U	0.01150	U	0.00918	U	0.00847	U	0.00990	U	0.01140	U	0.0107	U	0.00827	U	0.00714	U	0.00827	U	0.00735	U	0.00510	U
MW-12	7/14/2011	0.026	J	0.663		0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.5	U	0.1	U	0.05	U	0.05	U	0.1	U	5	U
	4/5/2012	0.017	J	0.75		0.027	J	0.012	J	0.052	U	0.052	U	0.052	U	0.052	U	0.103	U	0.103	U	0.103	U	0.103	U	0.103	U	0.103	U	0.103	U	0.515	U	0.103	U	0.052	U	0.052	U	0.103	U	5.15	U
	11/20/2012	0.013	J	0.71		0.01	J	0.0094	J	0.005	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0097	U	0.0097	U	0.0049	U	0.0097	U	0.0097	U	0.0097	U	0.0097	U	0.0097	U	0.0049	U	0.0049	U	0.0097	U	0.97	U
	3/26/2013	0.0017	U	0.359		0.0009	U	0.0007	U	0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	0.0013	U	0.215	U
	6/5/2013	0.037	J	0.633		0.0009	U	0.0007	U	0.0019	U	0.002	U	0.007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022		0.0015	U	0.0011	U	0.0013	U	0.215	U
	9/3/2013	0.0146	J	0.847		0.00200	U	0.00783	J	0.00290	U	0.00260	U	0.00280	U	0.00240	U	0.00430	U	0.00350	U	0.00460	U	0.00450	U	0.00370	U	0.00700	U	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
	12/4/2013	0.0771	U	0.601		0.07500	U	0.0729	U	0.1330	U	0.1060	U	0.08650	U	0.08230	U	0.00469	U	0.08440	U	0.11800	U	0.09380	U	0.08650	U	0.1010	U	0.11700	U	0.109	U	0.08440	U	0.07290	U	0.08440	U	0.0750	U	0.0521	U
MW-13	3/27/2013	0.0017	U	3.37		0.0009	U	0.0007	U	0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	0.0013	U	0.215	U
	6/5/2013		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY	
	9/5/2013	0.0516		6.36	D	0.0849		0.0307	J	0.454		0.00260	U	0.00280	U	0.00240	U	0.00430	U	0.00350	U	0.00460	U	0.00450	U	0.00370	U	0.00700	U	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
	12/4/2013		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY	
MW-14	7/12/2011	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.102	U	0.102	U	0.102	U	0.102	U	0.102	U	0.102	U	0.102	U	0.505	U	0.102	U	0.051	U	0.051	U	0.102	U	5.1	U
	4/4/2012	0.051	U	0.011	J	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051 U	U	0.101	U	0.101	U	0.101	U	0.101	U	0.101	U	0.101	U	0.101	U	0.505	U	0.101	U	0.051	U	0.051	U	0.101	U	5.05	U
	3/26/2013	0.0017	U	0.0015	U	0.0009	U	0.0007	U	0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	0.0013	U	0.215	U
	6/5/2013	0.0017	U	0.0015	U	0.0009	U	0.0007	U	0.0019	U	0.002	U	0.007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022		0.0015	U	0.0011	U	0.0013	U	0.215	U
	9/3/2013	0.0101	U	0.00230	U	0.00200	U	0.00160	U	0.00290	U	0.00260	U	0.00280	U	0.00240	U	0.00430	U	0.00350	U	0.00460	U	0.00450	U	0.00370	U	0.00700	U	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
	12/5/2013	0.0759	U	0.07180	U	0.07380	U	0.07180	U	0.1310	U	0.1050	U	0.08510	U	0.08100	U	0.00462	U	0.08310	U	0.11600	U	0.09230	U	0.08510	U	0.09950	U	0.11500	U	0.108	U	0.08310	U	0.07180	U	0.08310	U	0.07380	U	0.0513	U
MW-15	4/5/2012	0.041	J	0.47		0.00706	UBL	0.051	U	0.066	J	0.051	U	0.051	U	0.013	J	0.102	U	0.102	U	0.102	U	0.102	U	0.102	U	0.102	U	0.102	U	0.51	U	0.102	U	0.051	U	0.051	U	0.102	U	5.1	U
	3/25/2013	0.0795		0.347		0.0009	U	0.0418	J	0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	0.0013	U	0.215	U
	6/5/2013		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY	
	9/4/2013	0.0570		0.221		0.00200	U	0.0245	J	0.00290	U	0.00260	U	0.00280	U	0.00240	U	0.00430	U	0.00350	U	0.00460	U	0.00450	U	0.00370	U	0.00700	U	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
	12/3/2013		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY	
MW-16	7/11/2011	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.102	U	0.102	U	0.102	U	0.102	U	0.102	U	0.102	U	0.102	U	0.51	U	0.102	U	0.051	U	0.051	U	0.102	U	5.1	U
	4/5/2012	0.057	U	0.057	U	0.057	U	0.057	U	0.057	U	0.057	U	0.057	U	0.057	U	0.115	U	0.115	U	0.115	U	0.115	U	0.115	U	0.115	U	0.115	U	0.575	U	0.115	U	0.575	U	0.575	U	0.115	U	5.75	U
	3/27/2013	0.0017	U	0.0015	U	0.0009	U	0.0007	U	0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	0.0013	U	0.215	U
	6/5/2013	0.0017	U	0.204		0.0009	U	0.0007	U	0.0019	U	0.002	U	0.007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022		0.0015	U	0.0011	U	0.0013	U	0.215	U
	9/3/2013	0.0101	U	0.00230	U	0.00200	U	0.00160	U	0.00290	U	0.00260	U	0.00280	U	0.00240	U	0.00430	U	0.00350	U	0.00460	U	0.00450	U	0.00370	U	0.00700	U	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
	12/4/2013	0.0763	U	0.07220	U	0.07420	U	0.07220	U	0.1320	U	0.1050	U	0.08560	U	0.08140	U	0.00464	U	0.08350	U	0.1160	U	0.09280	U	0.08560	U	0.10000	U	0.11500	U	0.108	U	0.08350	U	0.07220	U	0.08350	U	0.07420	U	0.0515	U
MW-17	7/13/2011	0.051	U	0.42		0.051	U	0.0053	J	0.051	U	0.051	U	0.051	U	0.051	U	0.102	U	0.102	U	0.102	U	0.102	U	0.102	U	0.102	U	0.102	U	0.51	U	0.102	U	0.051	U	0.051	U	0.102	U	5.1	U
	4/6/2012	0.051	U	0.013	UBL	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.101	U	0.101	U	0.101	U	0.101	U	0.101	U	0.101	U	0.101	U	0.505	U	0.101	U	0.101	U	0.051	U	0.101	U	5.05	U
	11/20/2012	0.01	J	0.37		0.032	J	0.011	J	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0097	U	0.0097	U	0.0049	U	0.0097	U	0.0097	U	0.0097	U	0.0097	U	0.0097	U	0.0049	U	0.0049	U	0.0097	U	0.97	U
	3/26/2013	0.0017	U	0.3		0.0009	U	0.0007	U	0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	0.0013	U	0.215	U
	6/5/2013	0.0017	U	0.388		0.0009	U	0.0007	U	0.0019	U	0.002	U	0.007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022		0.0015	U	0.0011	U	0.0013	U	0.215	U
	9/4/2013	0.0101	U	0.390		0.0162	J	0.00748	J	0.00290	U	0.00260	U	0.00280	U	0.00240	U	0.00430	U	0.00350	U	0.00460	U	0.00450	U	0.00370	U	0.00700	U	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00588	J	0.00450	U	0.423	U
	12/4/2013	0.0767	U	0.264		0.0746	U	0.0725	U	0.1330	U	0.1060	U	0.08600	U	0.08190	U	0.00466	U	0.08390	U	0.1170	U	0.09330	U	0.0860	U	0.1010	U	0.1160	U	0.109	U	0.08390	U	0.07250	U	0.08390	U	0.07460	U	0.0518	U
MW-18	7/15/2011	0.05	U	0.23		0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.100 U	U	0.1	U	0.5	U	0.1	U	0.05	U	0.05	U	0.1	U	5	U
	4/5/2012	0.052	U	0.4		0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.025	J	0.103	U	0.103	U	0.103	U	0.103	U	0.103	U	0.103	U	0.515	U	0.103	U	0.052	U	0.052	U	0.103	U	5.15	U
	3/25/2013	0.033	J	0.882		0.0009	U	0.0007	U	0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	0.0013	U	0.215	U
	6/6/2013	0.0017	U	0.472		0.0009	U	0.0007	U	0.0019	U	0.002	U	0.007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022		0.0015	U	0.0011	U	0.0013	U	0.215	U
	9/4/2013	0.0101	U	0.409	J	0.00200	U	0.00160	U	0.00290	U	0.00260	U	0.00280	U	0.00240	U	0.00680	J	0.00350	U	0.00460	U	0.00450	U	0.00370	U	0.00700	U	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
	12/3/2013	0.0763	U	0.463		0.07420	U	0.07220	U	0.13200	U	0.10500	U	0.08560	U	0.08140	U	0.00464	U	0.08350	U	0.11600	U	0.09280	U	0.08560	U	0.10000	U	0.11500	U	0.108	U	0.08350	U	0.07220	U	0.08350	U	0.07420	U	0.0515	U
MW-19	4/5/2012	0.051	U	0.036	J	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.08		0.101	U	0.101	U	0.101	U	0.101	U	0.101	U	0.101	U	0.101	U	0.505	U	0.101	U	0.051	U	0.051	U	0.101	U	5.05	U
	3/25/2013	0.0017	U	0.0015	U	0.0009	U	0.0007	U	0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	0.0013	U	0.215	U
	6/6/2013	0.0017	U	0.0015	U	0.0009	U	0.0007	U	0.0019	U	0.002	U	0.007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022		0.0015	U	0.0011	U	0.0013	U	0.215	U
	9/4/2013	0.0101	U	0.00230	U	0.00200	U	0.00160	U	0.00290	U	0.00260	U	0.00280	U	0.00240	U	0.00430	U	0.00350	U	0.00460	U	0.00450	U	0.00370	U	0.00700	U	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
	12/3/2013	0.0759	U	0.07180	U	0.07380	U	0.07180	U	0.1310	U	0.1050	U	0.08510	U	0.0810	U	0.00462	U	0.08310	U	0.1160	U	0.09230	U	0.08510	U	0.09950	U	0.1150	U	0.108	U	0.08310	U	0.07180	U	0.08310	U	0.07380	U	0.0513	U

Table 4-3: Groundwater Data Summary Table for December 2013 Monitoring Event - Pesticides
GPA Bainbridge Terminal, Bainbridge, Georgia

	SW-846 8081B	alpha-BHC		beta-BHC		delta-BHC		gamma-BHC (Lindane)		Heptachlor		Aldrin		Heptachlor epoxide		Endosulfan I		Dieldrin		4,4'-DDE		Endrin		Endosulfan II		4,4'-DDD		Endosulfan sulfate		4,4'-DDT		Methoxychlor		Endrin aldehyde		gamma-Chlordane		alpha-Chlordane		Endrin ketone		Toxaphene	
	Unit	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Site-Specific RRS Values (ug/L)		0.5		1.6		0.1		2.6				0.2								8.4						12				8.4															
	Type RRS	4		4		4		4				4								4						4				4															
Well ID	Sample Date																																												
MW-20	7/12/2011	**0.46**	J	16		5.9		0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	1.02	U	1.02	U	1.02	U	1.02	U	1.02	U	1.02	U	1.02	U	5.1	U	1.02	U	0.051	U	0.051	U	1.02	U	51	U
	4/5/2012	**0.204**	J	10.4		2.4	UBL	**0.076**	J	0.532	U	**0.532**	U	0.532	U	0.532	U	1.06	U	1.06	U	1.06	U	1.06	U	1.06	U	**0.103**	J	1.06	U	0.532	U	1.06	U	0.532	U	0.532	U	1.06	U	53.2	U
	11/21/2012	0.0048	U	1.9	*	0.0048	U	0.0057	U	0.0048	U	0.0048	U	0.0048	U	0.0048	U	0.0048	U	0.0096	U	0.0096	U	0.0048	U	0.0096	U	0.0096	U	0.0096	U	0.0096	U	0.0096	U	0.0048	U	0.0048	U	0.0096	U	0.96	U
	3/27/2013	**0.079**		5.48		0.392		**0.0336**	J	0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	0.0013	U	0.215	U
	6/6/2013	**0.033**	J	4.15		0.158		0.0007	U	0.0019	U	0.002	U	0.007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022		0.0015	U	0.0011	U	0.0013	U	0.215	U
	9/5/2013	0.0101	U	2.21	D	0.00200	U	0.00160	U	0.00290	U	0.00260	U	0.00280	U	0.00240	U	0.00430	U	0.00350	U	0.00460	U	0.00450	U	0.00370	U	0.00700	U	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
	12/4/2013	0.153	U	27.7		0.1480	U	0.1440	U	0.2640	U	0.210	U	0.1710	U	0.1630	U	**0.01880**	J	0.1670	U	0.2330	U	0.1860	U	0.1710	U	0.200	U	0.2310	U	0.216	U	0.1670	U	0.1440	U	0.1670	U	0.1480	U	0.103	U
MW-21	7/12/2011	**0.21**	J	5.8		0.42	J	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	1.02	U	1.02	U	1.02	U	1.02	U	1.02	U	1.02	U	1.02	U	5.1	U	1.02	U	0.051	U	0.051	U	1.02	U	51	U
	4/5/2012	0.115	U	1.9		**0.05**	UBL	**0.021**	J	0.115	U	0.115	U	**0.01**	J	0.115	U	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	1.15	U	0.23	U	0.115	U	0.115	U	0.23	U	11.5	U
	11/21/2012	**0.13**		6.6	*	0.46	J*	**0.051**		0.0048	U	0.0048	U	0.0048	U	0.0048	U	0.0048	U	0.0096	U	0.0096	U	0.0048	U	0.0096	U	0.0096	U	0.0096	U	0.0096	U	0.0096	U	0.0048	U	0.0048	U	0.0096	U	0.96	U
	3/27/2013	0.0017	U	**0.44**		0.0009	U	0.0007	U	0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	0.0013	U	0.215	U
	6/6/2013	0.0017	U	**0.414**		0.0009	U	0.0007	U	0.0019	U	0.002	U	0.007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022		0.0015	U	0.0011	U	0.0013	U	0.215	U
	9/3/2013	0.0101	U	**0.286**		0.00200	U	0.00160	U	0.00290	U	0.00260	U	0.00280	U	0.00240	U	0.00430	U	0.00350	U	0.00460	U	0.00450	U	0.00370	U	0.00700	U	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
	12/4/2013	0.0763	U	2.53		0.07420	U	0.07220	U	0.1320	U	0.1050	U	0.08560	U	0.08140	U	0.00464	U	0.08350	U	0.1160	U	0.09280	U	0.08560	U	0.1000	U	0.1150	U	0.108	U	0.08350	U	0.07220	U	0.08350	U	0.07420	U	0.0515	U
MW-22	4/5/2012	1.52	J	33.2		6.4	UBL	**0.705**	J	2.53	U	2.53	U	2.53	U	2.53	U	5.05	U	5.05	U	5.05	U	5.05	U	5.05	U	5.05	U	5.05	U	25.3	U	5.05	U	5.05	U	2.53	U	5.05	U	253	U
	11/20/2012	1.3	*	24.4	**	2.6	*	**0.54**		0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.0098	U	0.0098	U	0.0098	U	0.0098	U	0.0098	U	0.0098	U	0.0098	U	0.0098	U	0.0049	U	0.0049	U	0.0098	U	**3.7**	
	3/27/2013	1.09		18.8		0.818		**0.776**		0.0019	U	0.002	U	0.0007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022	U	0.0015	U	0.0011	U	0.0013	U	0.215	U
	6/6/2013	0.833		31.7		1.79		**0.446**		0.0019	U	0.002	U	0.007	U	0.002	U	0.001	U	0.0032	U	0.0014	U	0.0019	U	0.0021	U	0.0022	U	0.0021	U	0.01	U	0.0022		0.0015	U	0.0011	U	0.0013	U	0.215	U
	9/5/2013	1.10	D	33.7	DX	0.725		**0.382**		0.00290	U	0.00260	U	0.00280	U	0.00240	U	**0.0521**	J	0.00350	U	**0.0637**	J	0.00450	U	**0.0388**	J	0.00700	U	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
	12/5/2013	0.999		37.4	X	1.39		0.4890		0.2610	U	0.2080	U	0.1690	U	0.1610	U	**0.03040**	J	0.1650	U	0.2310	U	0.1840	U	0.1690	U	0.1980	U	0.2290	U	0.2140	U	0.1650	U	0.1430	U	0.1650	U	0.1470	U	0.1020	U

Sources: Analytical results for samples collected in April 2012 and earlier are from CH2MHILL 2012, AccuTest 2012, and ECT 2012

Notes:

In response to EPD's comment letter on November 2, 2012 to GPA item number 7, where necessary, EIC has removed the superfluous J-flags which the laboratory did not flag, for the results in the April 2012 beta-BHC detections

MNA = Monitored Natural Attenuation
RRS = Risk Reduction Standard
TOC = Total Organic Carbon
ug/L = Micrograms per liter
mg/L = Milligrams per liter
NA = Not Applicable
18.8 = Results exceeds RRS

1.60 = Results above detection limit
J = Target analyte concentration was positively identified below the quantitation limit and above the detection limi
U = Analyte was not detected
UBL = Value not certain because of detection in equipment blank
D = The sample was diluted due to targets detected over the highest point of the calibration curve
X = A QC deficiency was detected in quality control review of data

NL = Well not located
NS = Well not sampled
NM = Contaminant not measured
DRY = Well was dry and therefore could not be sampled
*= Results from Run #2
**= Results from Run #3
***= Primary and confirmation results differ by more than 40%. Lower value reported due to possible contaminatior

Table 4-4: Groundwater Data Summary Table for December 2013 Monitoring Event - MNA

GPA Bainbridge Terminal, Bainbridge, Georgia

	Analyte	Ethane		Ethene		Methane		Manganese		TOC*		Chloride*		Nitrate		Sulfate	
	Unit	µg/L		µg/L		µg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
Well ID	**Sample Date**																
MW-1	7/13/2011		NM		NM		NM		NM	**39.60**			NM		NM		NM
	3/28/2013	0.002030	U	0.0020	U	0.00187	U	**0.570**		**1.56**		**8.48**		**5.54**		**541**	
	6/4/2013	0.002030	U	0.0020	U	0.00187	U	**0.512**		**1.85**		**7.19**		**3.09**		**411**	
	9/11/2013		NM		NM		NM	**0.533**		**1.80**		**7.40**		**6.01**		**323**	**D**
	12/3/2013	0.002030	U	0.0020	U	0.00187	U	**0.904**		**6.91**		**7.81**		**9.37**	**D**	**297**	**D**
MW-1A	7/13/2011		NM		NM		NM		NM	**5.60**			NM		NM		NM
	3/28/2013	0.002030	U	0.0020	U	0.00187	U	**0.787**		**1.58**		**9.33**		**8.77**		**670**	
	6/4/2013	0.002030	U	0.0020	U	0.00187	U	**0.846**		**1.67**		**13.8**		**6.34**		**465**	
	9/11/2013		NM		NM		NM	**1.2**		**1.83**		**8.74**		**11.5**	**D**	**423**	**D**
	12/3/2013	0.002030	U	0.0020	U	0.00187	U	**1.54**		**2.25**		**9.24**		**18.2**	**D**	**496**	**D**
MW-2	7/14/2011		NM		NM		NM		NM	**6.00**			NM		NM		NM
	3/28/2013	0.002030	U	0.0020	U	0.00187	U	**0.027**	**J**	**1.19**		**2.96**	**J**	**0.174**	**J**	**11.8**	
	6/3/2013	0.002030	U	0.0020	U	0.00187	U	**0.0865**		**1.29**		**3.79**	**J**	**0.132**	**J**	**22.6**	
	9/11/2013		NM		NM		NM	**0.026**	**J**	**1.13**		**1.83**	**J**	**0.662**	**J**	**7.88**	
	12/4/2013	0.002030	U	0.0020	U	**0.00211**		**0.0998**		**1.60**		**3.56**	**J**	**0.199**	**J**	**18.8**	
MW-3	3/28/2013		NL		NL		NL		NL		NL		NL		NL		NL
	6/6/2013		NS		NS		NS		NS		NS		NS		NS		NS
	9/16/2013		NM		NM		NM	**0.0094**	**J**	**0.844**	**J**	**3.11**	**J**	**1.21**		**6.09**	
	12/4/2013	0.002030	U	0.0020	U	0.00187	U	**0.00770**	**J**	**1.04**		**5.22**		**0.543**	**J**	**10.1**	
MW-4U	3/28/2013	0.002030	U	0.0020	U	0.00187	U	**0.352**		**1.25**		**8.38**		**15.2**		**148**	
	6/4/2013	0.002030	U	0.0020	U	0.00187	U	**0.248**		**1.38**		**5.9**		**3.23**		**7.97**	
	9/11/2013		NM		NM		NM	**0.322**		**1.46**		**6.57**		**8.37**		**67.2**	**D**
	12/3/2013	0.002030	U	0.0020	U	0.00187	U	**0.270**		**2.05**		**4.83**	**J**	**4.67**		**48.0**	
MW-5A	7/15/2011	1.000000	U	1.000	U	5.00	U	**1.52**		**7.10**		**17.9**		**10.1**			NM
	4/6/2012	1.000000	U	1.00	U	5.00	U	**2.34**		**1.30**		**31.4**		**19.9**		**122**	
	11/20/2012		NM		NM		NM		NM	**4.20**			NM		NM		NM
	3/26/2013	0.002030	U	0.0020	U	0.00187	U	**1.04**		**1.31**		**20.9**		**12.8**		**59.8**	
	6/4/2013	0.002030	U	0.0020	U	0.00187	U	**1.81**		**1.16**		**34.3**		**21.8**		**78.3**	
	9/16/2013		NM		NM		NM	**0.401**		**0.894**	**J**	**14.8**		**11.0**	**D**	**28.6**	
	12/5/2013	0.002030	U	0.0020	U	0.00187	U	**3.11**		**2.01**		**47.5**		**21.1**	**D**	**69.3**	**D**
MW-5D	7/15/2011	1.000000	U	1.00	U	**2.3**	**J**	**1.93**		**4.40**		**37.0**		**9.38**			NM
	4/6/2012	1.000000	U	1.00	U	**16.7**		**1.39**		**4.00**		**116**		**34.3**		**200**	
	11/20/2012		NM		NM		NM		NM	**4.20**			NM		NM		NM
	3/26/2013	0.002030	U	0.0020	U	0.00187	U	**0.314**		**23.40**		**210**		**22.8**		**198**	
	6/4/2013	0.002030	U	0.0020	U	**0.0347**		**1.17**		**5.68**		**585**		**30.2**		**226**	
	9/16/2013		NM		NM		NM	**0.561**		**2.09**		**52.8**	**D**	**11.3**	**D**	**110**	**D**
	12/5/2013	0.002030	U	0.0020	U	**0.00465**		**1.40**		**4.86**		**159**	**D**	**11.5**	**D**	**111**	**D**
MW-6	7/12/2011	1.000000	U	1.00	U	**37.4**		**6.08**		**3.90**		**201**		**0.608**			NM
	4/4/2012	1.000000	U	1.00	U	**42.7**		**5.00**		**1.10**		**181**		0.500	U	**489**	
	11/20/2012		NM		NM		NM		NM	**4.20**			NM		NM		NM
	3/26/2013	0.002030	U	0.0020	U	**0.0779**		**5.50**		**1.60**		**206**		0.024	U	**744**	
	6/5/2013	0.002030	U	0.0020	U	**0.0358**		**5.25**		**1.32**		**219**		0.0240	U	**687**	
	9/11/2013		NM		NM		NM	**5.20**		**1.59**		**185**	**D**	**0.0556**	**J**	**589**	**D**
	12/5/2013	0.002030	U	0.0020	U	**0.0589**		**5.19**		**2.18**		**163**	**D**	0.0240	U	**545**	**D**
MW-7	3/27/2013	0.002030	U	0.0020	U	**0.00922**		**4.75**		**4.66**		**12.6**		0.024	U	**175**	
	6/3/2013	0.002030	U	0.0020	U	0.00187	U	**6.68**		**2.29**		**16.4**		**19.1**		**362**	
	9/11/2013		NM		NM		NM	**6.90**		**4.23**		**12.4**		**13.1**	**D**	**262**	**D**
	12/3/2013	0.002030	U	0.0020	U	**0.0615**		**11.30**		**3.37**		**16.4**		**17.2**	**D**	**332**	**D**
MW-8	7/14/2011	1.000000	U	1.00	U	5.00	U	**2.77**		**7.10**		**45.8**		**24.6**			NM
	4/5/2012	1.000000	U	1.00	U	5.00	U	**1.5**		**0.87**	**J**	**29.9**		**12.7**		**357**	
	11/20/2012		NM		NM		NM		NM	**4.20**			NM		NM		NM
	3/26/2013	0.002030	U	0.0020	U	0.00187	U	**1.25**		**1.84**		**48.1**		**19**		**1060**	
	6/5/2013	0.002030	U	0.0020	U	0.00187	U	**0.969**		**0.844**	**J**	**34.7**		**14.6**		**294**	
	9/16/2013		NM		NM		NM	**0.819**		**1.37**		**19.0**		**10.5**	**D**	**428**	**D**
	12/5/2013							**1.88**		**1.50**		**45.4**		**19.8**	**D**	**75.7**	**D**
MW-9	3/25/2013		NL		NL		NL		NL		NL		NL		NL		NL
	6/6/2013		NL		NL		NL		NL		NL		NL		NL		NL
	9/16/2013		NL		NL		NL		NL		NL		NL		NL		NL
	12/5/2013		NL		NL		NL		NL		NL		NL		NL		NL
MW-10	7/12/2011	1.000000	U	1.00	U	5.00	U	**0.88**		**7.50**		**28.4**		**4.96**			NM
	4/5/2012	1.000000	U	1.00	U	5.00	U	**1.09**		**2.60**		**41.3**		**5.82**		**398**	
	11/21/2012		NM		NM		NM		NM	**4.20**			NM		NM		NM
	3/27/2013	0.002030	U	0.0020	U	0.00187	U	**1.06**		**2.43**		**40.5**		0.024	U	**492**	
	6/5/2013	0.002030	U	0.0020	U	0.00187	U	**1.07**		**2.39**		**42.6**		**4.97**		**468**	
	9/16/2013		NM		NM		NM	**0.948**		**2.63**		**34.6**		**4.19**		**348**	**D**
	12/4/2013	0.002030	U	0.0020	U	0.00187	U	**0.893**		**3.15**		**39.3**		**3.93**		**370**	**D**

Table 4-4: Groundwater Data Summary Table for December 2013 Monitoring Event - MNA

GPA Bainbridge Terminal, Bainbridge, Georgia

	Analyte	Ethane		Ethene		Methane		Manganese		TOC*		Chloride*		Nitrate		Sulfate	
	Unit	µg/L		µg/L		µg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
Well ID	Sample Date																
MW-11	7/14/2011		NM		NM		NM		NM	5.30			NM		NM		NM
	4/6/2012	1.000000	U	1.00	U	5.00	U	0.086		2.60		3.18		4.10		63.2	
	3/28/2013	0.002030	U	0.0020	U	0.00187	U	0.0318	J	2.29		3.85	J	1.14		105	
	6/4/2013	0.002030	U	0.0020	U	0.00187	U	0.0351	J	2.36		3.76	J	1.22		77.5	
	9/11/2013		NM		NM		NM	0.0242	J	3.07		3.07	J	0.580	J	44.1	D
	12/3/2013	0.002030	U	0.0020	U	0.00187	U	0.0179	J	3.11		3.13	J	0.638	J	36.4	
MW-12	7/14/2011	1.000000	U	1.00	U	5.00	U	0.0029		2.40		22.8		10.8			NM
	4/5/2012	1.000000	U	1.00	U	5.00	U	0.015	U	1.10		23.6		12.2		253	
	11/20/2012		NM		NM		NM		NM	4.20			NM		NM		NM
	3/26/2013	0.002030	U	0.0020	U	0.00187	U	0.0889		1.33		23.7		13		316	
	6/5/2013	0.002030	U	0.0020	U	0.00187	U	0.00740	J	0.736	J	46		15.7		135	
	9/11/2013		NM		NM		NM	0.04180	J	1.36		22.2		12.0	D	552	D
	12/4/2013	0.002030	U	0.0020	U	0.00187	U	0.00460	J	1.23		29.4		9.75		77.7	D
MW-13	3/27/2013	0.002030	U	0.0020	U	0.00187	U	0.379		1.82		24.2		0.024	U	97.7	
	6/6/2013		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY
	9/16/2013		NM		NM		NM	0.365		1.85		25.7		3.26		121	D
	12/4/2013		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY
MW-14	7/12/2011		NM		NM		NM		NM	4.70			NM		NM		NM
	4/4/2012	1.000000	U	1.00	U	5.00	U	0.015	U	1.10		2.10		0.104	J	1.84	
	3/26/2013	0.002030	U	0.0020	U	0.0217		0.369		1.78		3.15	J	0.0485	J	1.24	J
	6/5/2013	0.002030	U	0.0020	U	0.00940		0.323		1.78		3.51	J	0.0574	J	1.76	J
	9/11/2013		NM		NM		NM	0.352		1.79		2.39	J	0.0492	J	1.57	J
	12/5/2013	0.002030	U	0.0020	U	0.0367		0.320		2.36		3.33	J	0.103	J	2.43	J
MW-15	4/5/2012		NM		NM		NM		NM	5.70			NM		NM		NM
	3/25/2013	0.002030	U	0.0020	U	0.00187	U	4.28		8.06		906.00		337.00		769.00	
	6/6/2013		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY
	9/11/2013		NM		NM		NM	1.14		56.5		171	D	100	D	261	D
	12/3/2013		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY
MW-16	7/11/2011		NM		NM		NM		NM	1.20			NM		NM		NM
	4/5/2012		NM		NM		NM		NM	1.00	U		NM		NM		NM
	3/27/2013	0.002030	U	0.0020	U	0.00187	U	0.0182	J	0.924	J	2.18	J	0.024	U	2.60	J
	6/5/2013	0.002030	U	0.0020	U	0.00187	U	0.0251	J	0.679	J	1.32	J	1.180		4.00	J
	9/11/2013		NM		NM		NM	0.0751		3.490		1.64	J	1.500		1.51	J
	12/4/2013	0.002030	U	0.0020	U	0.00187	U	0.0296	J	1.51		2.33	J	0.703	J	1.40	J
MW-17	7/13/2011	1.000000	U	1.00	U	1.72		0.094		7.20		9.27		2.04			NM
	4/6/2012	1.000000	U	1.00	U	5.00	U	0.015	U	5.00		0.558		0.293	J	1.73	
	11/20/2012		NM		NM		NM		NM	1.00	U		NM		NM		NM
	3/26/2013	0.002030	U	0.0020	U	0.0150		0.293		1.57		10.7		2.00		41.1	
	6/5/2013	0.002030	U	0.0020	U	0.00187	U	0.211		1.00	J	14.6		4.27		50	
	9/11/2013		NM		NM		NM	0.147		1.55		9.99		3.62		45.8	
	12/4/2013	0.002030	U	0.0020	U	0.00187	U	0.116		2.46		12.2		3.64		47	
MW-18	7/15/2011		NM		NM		NM		NM	12.80			NM		NM		NM
	4/5/2012		NM		NM		NM		NM	4.20			NM		NM		NM
	3/25/2013	0.002000	U	0.0020	U	0.00203		2.28		2.46		67.60		114.00		121.00	
	6/6/2013	0.002030	U	0.0020	U	0.00187	U	1.88		2.65		72.2		138		155	
	9/11/2013		NM		NM		NM	1.35		2.73		53.9	D	100	D	121	D
	12/3/2013	0.002030	U	0.0020	U	0.00211		1.71		3.3		48.0	D	80.1	D	99.3	D
MW-19	4/5/2012		NM		NM		NM		NM	2.60			NM		NM		NM
	3/25/2013	0.002030	U	0.0020	U	0.00	U	1.03		2.45		31.40		99.70		172.00	
	6/6/2013	0.002030	U	0.0020	U	0.00187	U	0.934		2.44		32.5		96.1		227	
	9/11/2013		NM		NM		NM	0.945		2.61		29		97.8	D	151	D
	12/3/2013	0.002030	U	0.0020	U	0.00204		0.755		3.27		20.8		49.5	D	129	D

Table 4-4: Groundwater Data Summary Table for December 2013 Monitoring Event - MNA

GPA Bainbridge Terminal, Bainbridge, Georgia

	Analyte	Ethane		Ethene		Methane		Manganese		TOC*		Chloride*		Nitrate		Sulfate	
	Unit	µg/L		µg/L		µg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
Well ID	**Sample Date**																
MW-20	7/12/2011	1.000000	U	1.00	U	5.00	U	**1.27**		**3.70**		**11.8**		**4.66**			NM
	4/5/2012	1.000000	U	**0.0750**	**J**	5.00	U	**1.06**		**1.20**		**14.7**		**7.87**		**84.3**	
	11/21/2012		NM		NM		NM		NM	1.00	U		NM		NM		NM
	3/27/2013	0.002030	U	0.00	U	0.00187	U	**0.966**		**1.35**		**0.538**	**J**	0.024	U	0.168	U
	6/6/2013	0.002030	U	0.0020	U	0.00187	U	**0.697**		**1.54**		**10.2**		**3.63**		**115**	
	9/16/2013		NM		NM		NM	**0.748**		**1.53**		**9.46**		**2.55**		**54.0**	**D**
	12/4/2013	0.002030	U	0.0020	U	0.00187	U	**0.721**		**2.61**		**13.4**		**0.809**	**J**	**92.7**	**D**
MW-21	7/12/2011	1.000000	U	1.000	U	5.00	U	**1.56**		**5.90**		**46.9**		**12.3**		NM	NM
	4/5/2012	1.000000	U	1	U	5.00	U	**0.76**		**1.50**		**9.64**		**3.03**		**81.0**	
	11/21/2012		NM		NM		NM		NM	1.00	U		NM		NM		NM
	3/27/2013	0.002030	U	0.00	U	0.00187	U	**0.511**		**1.54**		**9.38**		**0.914**	**J**	**48.3**	
	6/6/2013	0.002030	U	0.0020	U	0.00187	U	**0.500**		**1.66**		**7.29**		**1.47**		**54.7**	
	9/11/2013		NM		NM		NM	**0.528**		**1.85**		**5.77**		**0.647**	**J**	**45**	
	12/4/2013	0.002030	U	0.0020	U	0.00187	U	**0.672**		**2.21**		**9.70**		**1.26**		**119**	**D**
MW-22	4/5/2012	1.000000	U	**0.22**	**J**	5.00	U	**0.65**		**1.70**		**9.38**		**5.47**		**233**	
	11/20/2012		NM		NM		NM		NM	**1.40**			NM		NM		NM
	3/27/2013	0.002030	U	0.00	U	0.00187	U	**0.239**		**1.73**		**8.19**		0.024	U	**176**	
	6/6/2013	0.002030	U	0.0020	U	0.00187	U	**0.583**		**2.21**		**8.42**		**3.02**		**331**	
	9/16/2013		NM		NM		NM	**0.360**		**2.29**		**6.47**		**1.84**		**273**	**D**
	12/5/2013	0.002030	U	0.0020	U	0.00187	U	**0.600**		**2.88**		**7.29**		**2.24**		**216**	**D**

Sources: Analytical results for samples collected in April 2012 and earlier are from CH2MHILL 2012, AccuTest 2012, and ECT 2

Notes:

Samples delivered to laboratory within holding tim

* Concentrations of TOC (1.10 J mg/L) and Manganese (0.00220 mg/L) were detected in the equipment blank sampled on 12/03/2013

MNA = Monitored Natural Attenuation.

TOC = Total Organic Carbon

µg/L = Micrograms per liter.

mg/L = Milligrams per liter

U = Analyte was not detected

J = Target analyte concentration was positively identified below the quantiation limit and above the detection

1.50 = Result above detection limit.

NM = Contaminant Not Measured

NL = Well not locate

NS = Well not sample

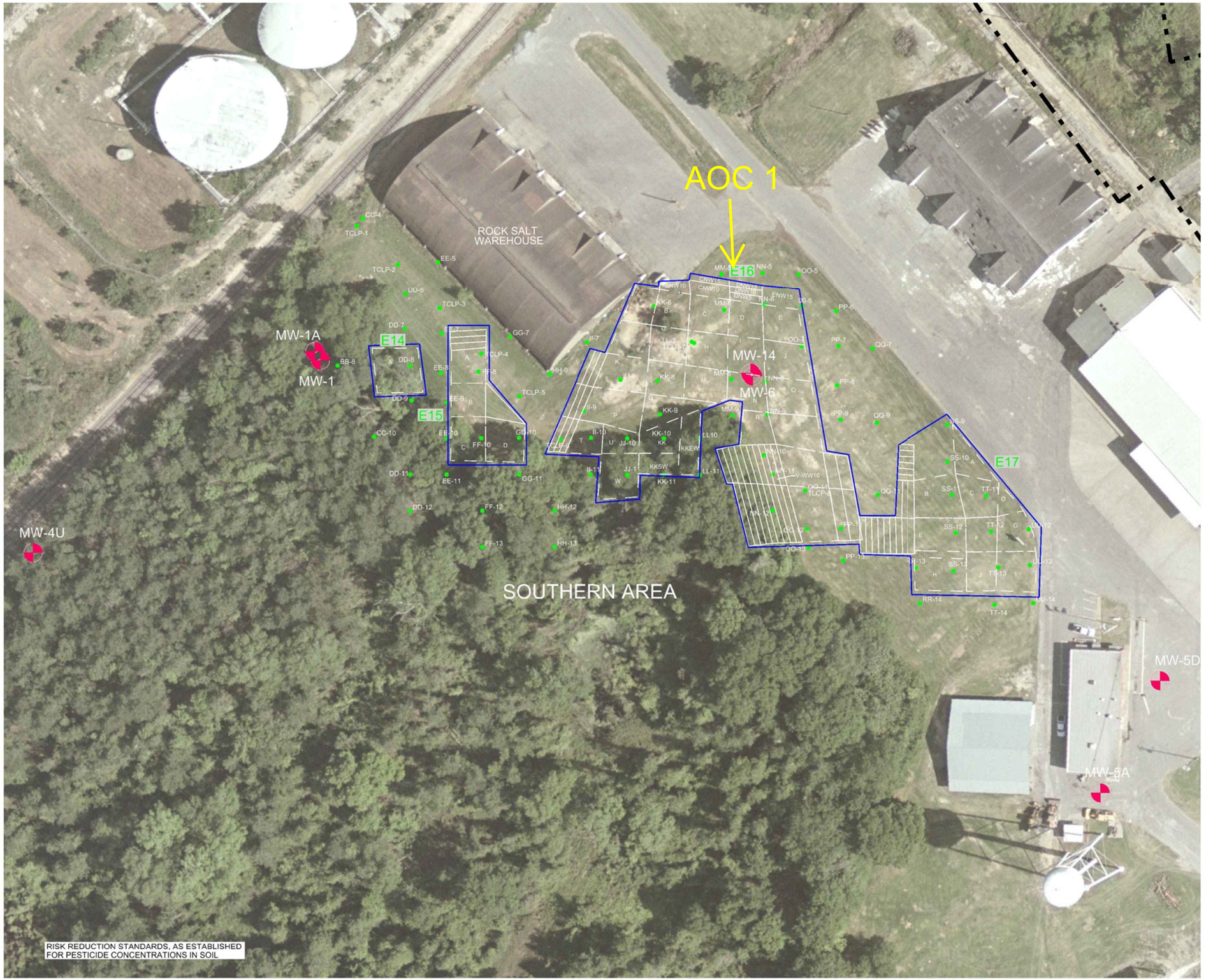
DRY = Well was dry and therefore could not be sampl

D = The sample was diluted due to targets detected over the highest point of the calibration cu

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

THIRD VIRP SEMI-ANNUAL PROGRESS REPORT

FIGURES



LEGEND:

- GROUNDWATER MONITORING WELL
- APPROXIMATE PROPERTY BOUNDARY
- AREAL EXTENT OF SOIL EXCEEDING RRS VALUES (AOC 1)
- SAMPLING GRIDS
- INVESTIGATION SOIL BORINGS COMPLETED IN 2009

FIGURE 3-1

N

0 40 80 120

Know what's below. Call before you dig.

DECEMBER 2011 SOIL SAMPLING LOCATIONS AT ROCK SALT WAREHOUSE

NO.	DATE	REVISION	DR	CHK	BY	APVD
1	12/16		E GRIGGS	APVD		

DSGN: D NELSON

CH2MHILL

SOIL REMOVAL AREAS
SOUTHERN AND NORTHERN AREAS
BAINBRIDGE TERMINIAL

Georgia Ports Authority
DEEPWATER TERMINALS BRUNSWICK, SAVANNAH
INLAND TERMINALS BAINBRIDGE, COLUMBUS

SOIL REMOVAL AND DISPOSAL
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	
CH2M PROJ No.	392278.01
GPA PROJ No.	0905-0359
DWG	FIGURE 2
SHEET	

FILENAME: Figure 3_SoilSampLoc.dgn PLOT DATE: 2/23/2012 PLOT TIME: 5:26:54 PM

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ISSUED FOR FOR CONSTRUCTION

SOURCE: CH2MHILL, 2012

LEGEND:

- GPA PROPERTY LINE DIVISION SEPARATING NORTH AND SOUTH PARCELS
- MW–6 MONITORING WELL
- R.S.W. ROCK SALT WAREHOUSE
- W.H.2 WAREHOUSE 2
- W.H.3 WAREHOUSE 3
- FENCE LINE
- GATE POST
- GATE MAY NOT BE NECESSARY IF PATH TO WELL MW–3 LIES OUTSIDE FENCING.

SOURCE:

BASEMAP MODIFIED FROM AERIAL PHOTOGRAPH PROVIDED BY GEORGIA PORTS AUTHORITY. PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY. FENCE LINE AND WELL LOCATIONS BASED ON LAND SURVEYS BY DONALDSON GARRETT & ASSOCIATES.

N

25 0 25 50 75

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

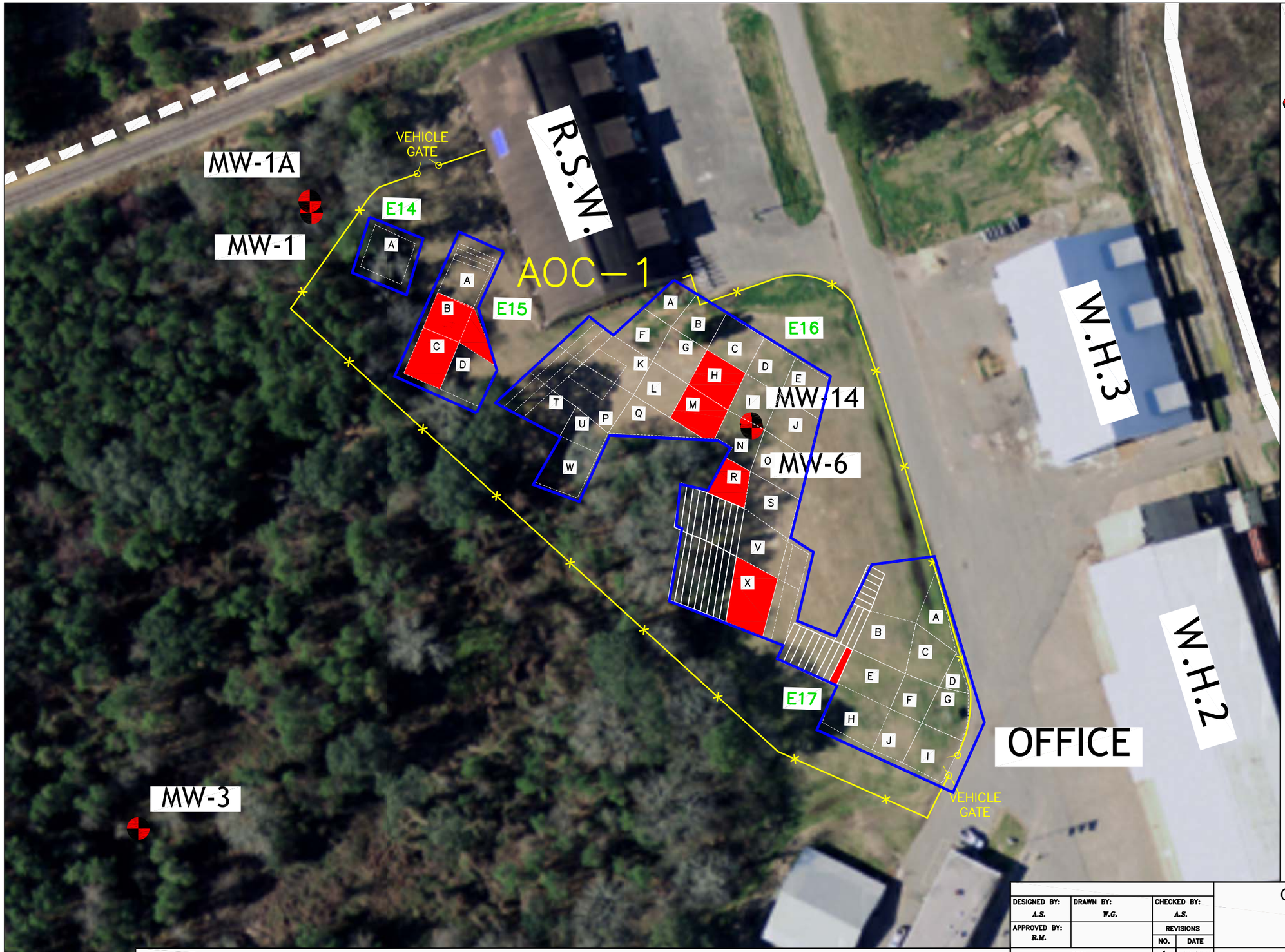
FIGURE 3–2: LOCATION OF PROPOSED SECURITY FENCE AROUND AOC–1

DESIGNED BY: A.S.	DRAWN BY: J.W.	CHECKED BY: A.S.	
APPROVED BY: R.M.		REVISIONS NO.	DATE
SEAL:			

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
Bainbridge, Georgia

ENVIRONMENTAL INTERNATIONAL CORP.
161 KIMBALL BRIDGE ROAD
ALPHARETTA, GEORGIA 30009

SCALE:	DATE:	FILE:	SHEET NO.:
SEE BAR SCALE	6/26/2013	400007–4.3 – GPA BAINBRIDGE	



LEGEND:

- GPA PROPERTY LINE / DIVISION SEPARATING NORTH AND SOUTH PARCELS
- MW–6 — MONITORING WELL
- R.S.W. — ROCK SALT WAREHOUSE
- W.H.2 — WAREHOUSE 2
- W.H.3 — WAREHOUSE 3
- FENCE LINE
- E16 — SOIL SAMPLE ZONE
- A — SAMPLE CELL IDENTIFICATION
- SAMPLE CELL BOUNDARIES
- AOC 1 BOUNDARY
- CONCENTRATION OF Gamma–BHC (LINDANE) EXCEEDS RRS OF 12,000 ug/kg AT A DEPTH OF 0–2 FEET

SOURCES:

BASEMAP MODIFIED FROM AERIAL PHOTOGRAPH PROVIDED BY GEORGIA PORTS AUTHORITY. PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY. FENCE LINE AND WELL LOCATIONS BASED ON LAND SURVEYS BY DONALDSON GARRETT & ASSOCIATES. SOIL SAMPLE GRID AND ANALYTICAL DATA PROVIDED BY CH2MHILL.

N

25 0 25 50 75

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 3–3: LOCATION OF GAMMA–BHC CONCENTRATIONS ABOVE RRS AT 0–2 FT. BELOW SURFACE

DESIGNED BY:	DRAWN BY:	CHECKED BY:
A.S.	W.G.	A.S.
APPROVED BY: R.M.		REVISIONS NO. 1 DATE 9/18/2013

SEAL:

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ALPHARETTA, GEORGIA 30009

SCALE:	DATE:	FILE:	SHEET NO.:
SEE BAR SCALE	11/4/2013	400007-4.3 – GPA BAINBRIDGE	

LEGEND:

- GPA PROPERTY LINE DIVISION SEPARATING NORTH AND SOUTH PARCELS
- MW–6 MONITORING WELL
- R.S.W. ROCK SALT WAREHOUSE
- W.H.2 WAREHOUSE 2
- W.H.3 WAREHOUSE 3
- FENCE LINE
- E16 SOIL SAMPLE ZONE
- A SAMPLE CELL IDENTIFICATION
- SAMPLE CELL BOUNDARIES
- AOC 1 BOUNDARY
- CONCENTRATION OF Gamma–BHC (LINDANE) EXCEEDS RRS OF 12,000 ug/kg AT A DEPTH OF 2–5 FEET

SOURCES:

BASEMAP MODIFIED FROM AERIAL PHOTOGRAPH PROVIDED BY GEORGIA PORTS AUTHORITY. PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY. FENCE LINE AND WELL LOCATIONS BASED ON LAND SURVEYS BY DONALDSON GARRETT & ASSOCIATES. SOIL SAMPLE GRID AND ANALYTICAL DATA PROVIDED BY CH2MHILL.

N

25 0 25 50 75

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 3–4: LOCATION OF GAMMA–BHC CONCENTRATIONS ABOVE RRS AT 2–5 FT. BELOW SURFACE

DESIGNED BY:	DRAWN BY:	CHECKED BY:
A.S.	A.P.G.	A.S.
APPROVED BY: R.M.		REVISIONS NO. / DATE

SEAL:

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Bainbridge, Georgia

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ALPHARETTA, GEORGIA 30009

SCALE:	DATE:	FILE:	SHEET NO.:
SEE BAR SCALE	12/23/2013	400007–4.3 – GPA BAINBRIDGE	

LEGEND:

- GPA PROPERTY LINE
- DIVISION SEPARATING NORTH AND SOUTH PARCELS
- MW–6 MONITORING WELL
- R.S.W. ROCK SALT WAREHOUSE
- W.H.2 WAREHOUSE 2
- W.H.3 WAREHOUSE 3
- FENCE LINE
- E16 SOIL SAMPLE ZONE
- A SAMPLE CELL IDENTIFICATION
- SAMPLE CELL BOUNDARIES
- AOC 1 BOUNDARY
- CONCENTRATION OF Gamma–BHC (LINDANE) EXCEEDS RRS OF 12,000 ug/kg AT A DEPTH OF >5 FEET

SOURCES:

BASEMAP MODIFIED FROM AERIAL PHOTOGRAPH PROVIDED BY GEORGIA PORTS AUTHORITY. PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY. FENCE LINE AND WELL LOCATIONS BASED ON LAND SURVEYS BY DONALDSON GARRETT & ASSOCIATES. SOIL SAMPLE GRID AND ANALYTICAL DATA PROVIDED BY CH2MHILL.

N

25 0 25 50 75

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 3–5: LOCATION OF GAMMA–BHC CONCENTRATIONS ABOVE RRS AT >5 FT. BELOW SURFACE

DESIGNED BY:	DRAWN BY:	CHECKED BY:
A.S.	A.P.G.	A.S.
APPROVED BY: R.M.		

SEAL:

REVISIONS NO.	DATE
1	9/18/2013

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SCALE:	DATE:	FILE:	SHEET NO.:
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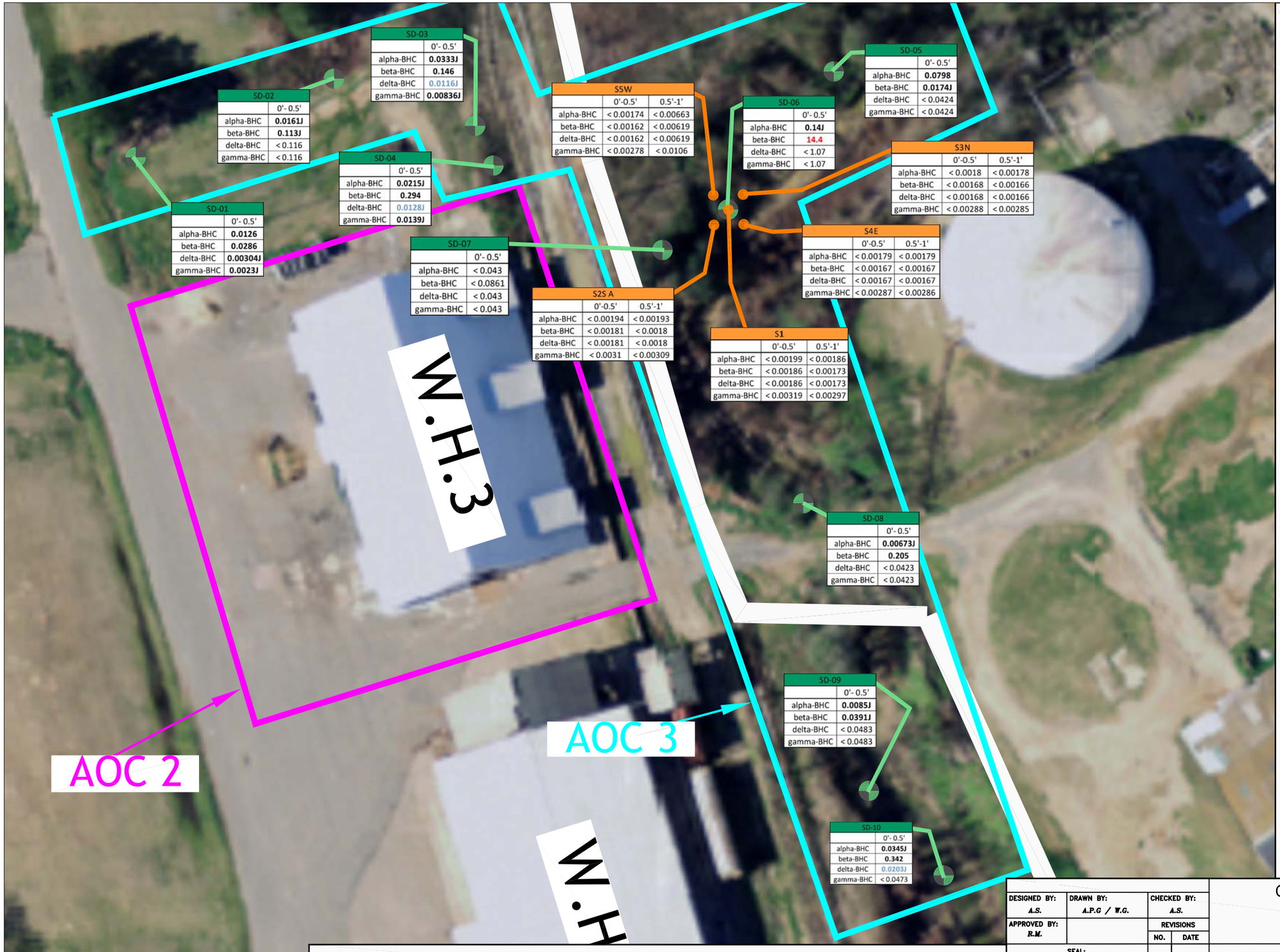

LEGEND:

- Pre–VIRP Sediment Sample Locations
- Post–VIRP Sediment Sample Locations
- W.H.3 WAREHOUSE 3
- GPA PROPERTY LINE

J COMPOUND WAS DETECTED, BUT BELOW QUANTIFICATION LIMIT. CONCENTRATION CONSIDERED ESTIMATE.

NOTE: ALL CONCENTRATIONS REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg). VALUES IN BOLD INDICATE RESULTS ABOVE DETECTION LIMITS

	CONCENTRATION mg/kg	
COC	DELINEATION	RRS
α BHC	0.66	0.66
β BHC	0.66	3.1
δ BHC	0.01	0.10
γ BHC	0.66	12

SOURCE:

Basemap modified from aerial photograph provided by Georgia Ports Authority.
Property lines provided by Georgia Ports Authority.
Pre–VIRP sample locations (approximate) from CH2M Hill report, 2/24/2012.

N

20 0 20 40 60

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 3–6: LOCATION OF SOIL SAMPLES AND RESULTS WITHIN AOC–3

DESIGNED BY:	DRAWN BY:	CHECKED BY:
A.S.	A.P.G / W.G.	A.S.
APPROVED BY: R.M.		REVISIONS NO. / DATE

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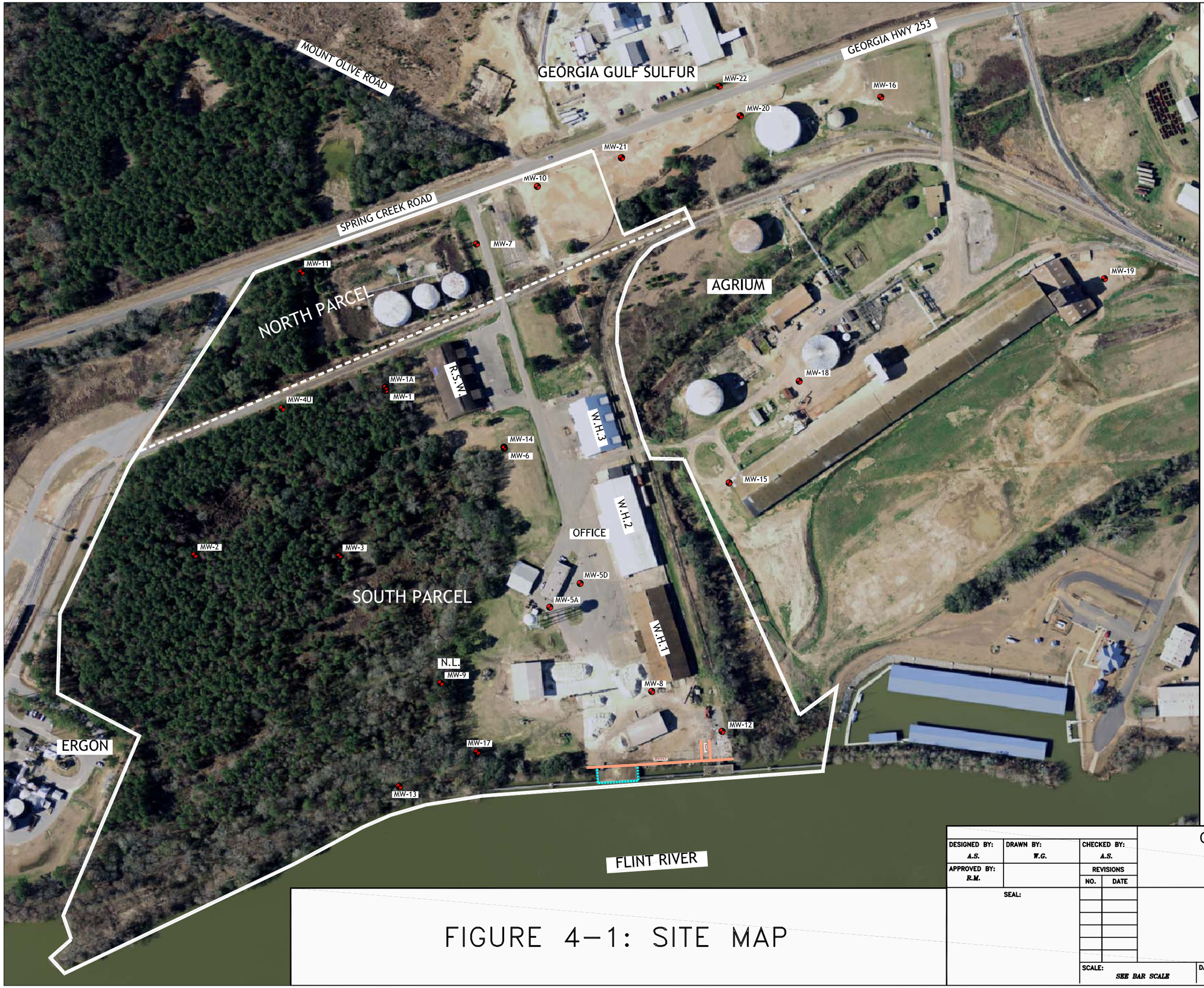
SCALE:	DATE:	FILE:	SHEET NO.:
SEE BAR SCALE	04/08/2014	400007-4.4 – GPA BAINBRIDGE	



LEGEND:

MW–3	MONITORING WELL
N.L.	WELL NOT LOCATED
	GPA PROPERTY LINE DIVISION SEPARATING NORTH AND SOUTH PARCELS
R.S.W.	ROCK SALT WAREHOUSE
W.H.1	WAREHOUSE 1
W.H.2	WAREHOUSE 2
W.H.3	WAREHOUSE 3
	SHEET PILE BULKHEAD
	EDGE OF PIER

SOURCE:

BASEMAP MODIFIED FROM AERIAL PHOTOGRAPH PROVIDED BY GEORGIA PORTS AUTHORITY. PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY. WELL LOCATIONS (APPROXIMATE) FROM CH2M HILL DRAFT CAP AND WELL LOG MW–22.

N

100 0 100 200 300

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 4–1: SITE MAP

DESIGNED BY: A.S.	DRAWN BY: W.G.	CHECKED BY: A.S.	
APPROVED BY: R.M.		REVISIONS NO.	DATE
SEAL:			

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Bainbridge, Georgia

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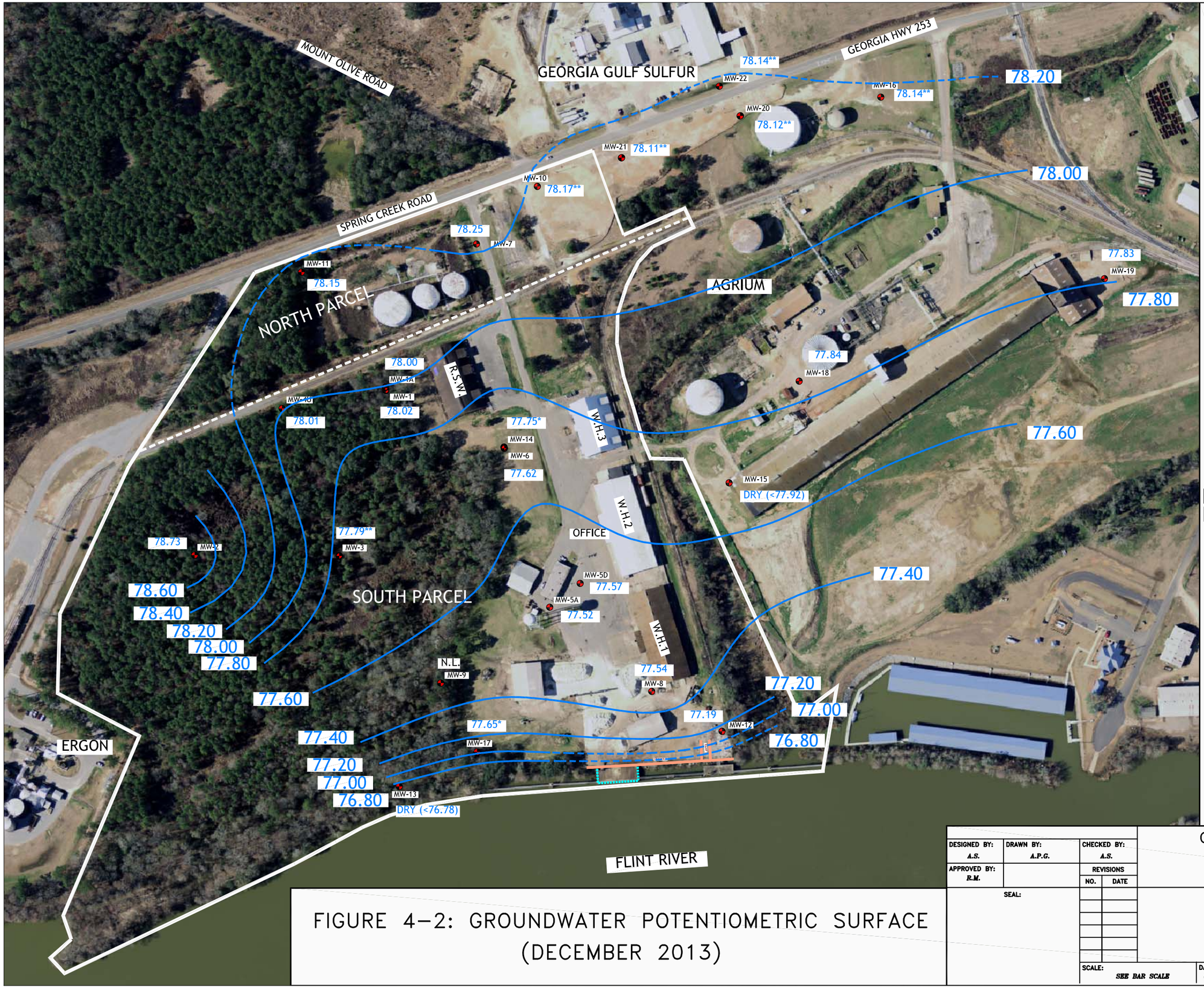
ALPHARETTA, GEORGIA 30009

SCALE:	DATE:	FILE:	SHEET NO.:
SEE BAR SCALE	10/9/2013	400007 – GPA BAINBRIDGE	



LEGEND:

MW–3	MONITORING WELL
N.L.	WELL NOT LOCATED
	GPA PROPERTY LINE / DIVISION SEPARATING NORTH AND SOUTH PARCELS
R.S.W.	ROCK SALT WAREHOUSE
W.H.1	WAREHOUSE 1
W.H.2	WAREHOUSE 2
W.H.3	WAREHOUSE 3
78.00	GROUNDWATER ELEVATION CONTOUR
77.83	GROUNDWATER ELEVATION
*	GROUNDWATER ELEVATION FOR MW NOT CONSIDERED BECAUSE TOP OF SCREEN IS EQUAL TO OR DEEPER THAN 50 FEET BELOW GROUND SURFACE
**	GROUNDWATER ELEVATION DATA POINTS ARE CALCULATED UTILIZING TOC ELEVATIONS FROM A SURVEY CONDUCTED BY DONALDSON, GARRET, AND ASSOC., INC ON 6/5/2013. REMAINING GROUNDWATER ELEVATION DATA POINTS ARE DETERMINED WITH TOC ELEVATION DATA FROM MULTIPLE REPORTS PROVIDED BY CH2MHILL
DRY<77.92	WELL WAS DRY (ELEVATION OF DEPTH TO BOTTOM MEASUREMENT)
	SHEET PILE BULKHEAD
	EDGE OF PIER

NOTES:
- CONTOUR INTERVAL = 0.2 FEET
- ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AND THE WAREHOUSE BUILDING ON AGRIUM PROPERTY HAVE BEEN REMOVED.

SOURCE:

BASEMAP MODIFIED FROM AERIAL PHOTOGRAPH PROVIDED BY GEORGIA PORTS AUTHORITY. PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY. WELL LOCATIONS BASED ON LAND SURVEYS BY DONALDSON GARRETT & ASSOCIATES.

N

100 0 100 200 300

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 4–2: GROUNDWATER POTENTIOMETRIC SURFACE (DECEMBER 2013)

DESIGNED BY: A.S.	DRAWN BY: A.P.G.	CHECKED BY: A.S.	
APPROVED BY: R.M.		REVISIONS NO. / DATE	
SEAL:			

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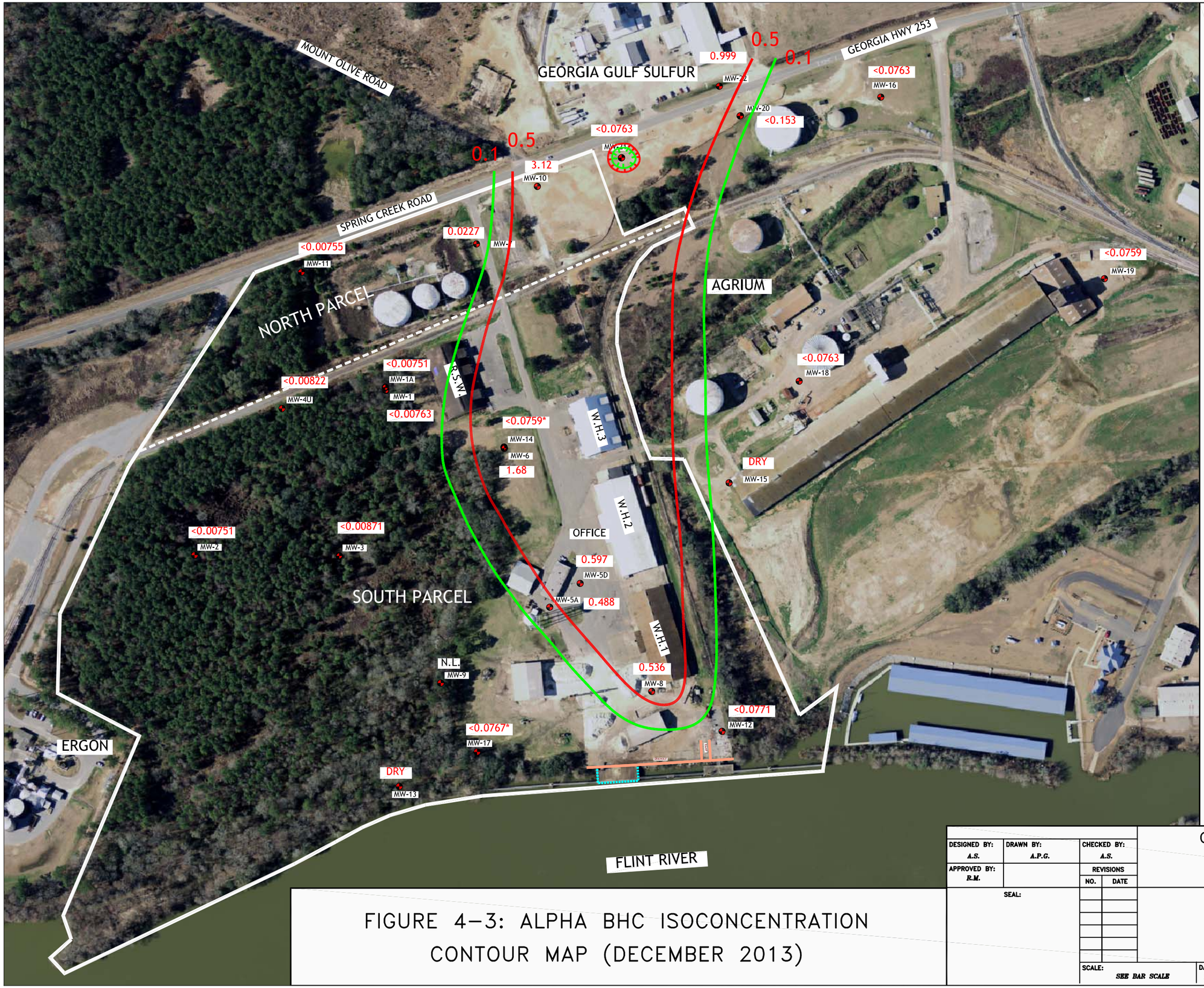
BAINBRIDGE TERMINAL
Bainbridge, Georgia

ENVIRONMENTAL INTERNATIONAL CORP.
161 KIMBALL BRIDGE ROAD
ALPHARETTA, GEORGIA 30009

SCALE:	DATE:	FILE:	SHEET NO.:
SEE BAR SCALE	04/08/2014	400007 – 4.5 – GPA BAINBRIDGE	



LEGEND:

MW–3	MONITORING WELL
N.L.	WELL NOT LOCATED
	GPA PROPERTY LINE
	DIVISION SEPARATING NORTH AND SOUTH PARCELS
R.S.W.	ROCK SALT WAREHOUSE
W.H.1	WAREHOUSE 1
W.H.2	WAREHOUSE 2
W.H.3	WAREHOUSE 3
1.68	BHC CONCENTRATION (ug/L)
J	TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTITATION LIMIT AND ABOVE THE DETECTION LIMIT
DRY	WELLS WERE DRY AND UNABLE TO BE SAMPLED
	TYPE 4 RRS LIMIT 0.5 ug/L
	DELINEATION STANDARD 0.1 ug/L
*	BHC CONCENTRATION AT MW NOT CONSIDERED BECAUSE TOP OF SCREEN IS EQUAL TO OR DEEPER THAN 50 FEET BELOW GROUND SURFACE
	SHEET PILE BULKHEAD
	EDGE OF PIER

NOTES:
- CONTOUR INTERVAL = 5 ug/L
- ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AND THE WAREHOUSE BUILDING ON AGRIUM PROPERTY HAVE BEEN REMOVED.

SOURCE:

BASEMAP MODIFIED FROM AERIAL PHOTOGRAPH PROVIDED BY GEORGIA PORTS AUTHORITY. PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY. WELL LOCATIONS BASED ON LAND SURVEYS BY DONALDSON GARRETT & ASSOCIATES.

N

100 0 100 200 300

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 4–3: ALPHA BHC ISOCONCENTRATION CONTOUR MAP (DECEMBER 2013)

DESIGNED BY: A.S.	DRAWN BY: A.P.G.	CHECKED BY: A.S.	
APPROVED BY: R.M.		REVISIONS NO.	DATE
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Bainbridge, Georgia

ENVIRONMENTAL INTERNATIONAL CORP.
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ALPHARETTA, GEORGIA 30009

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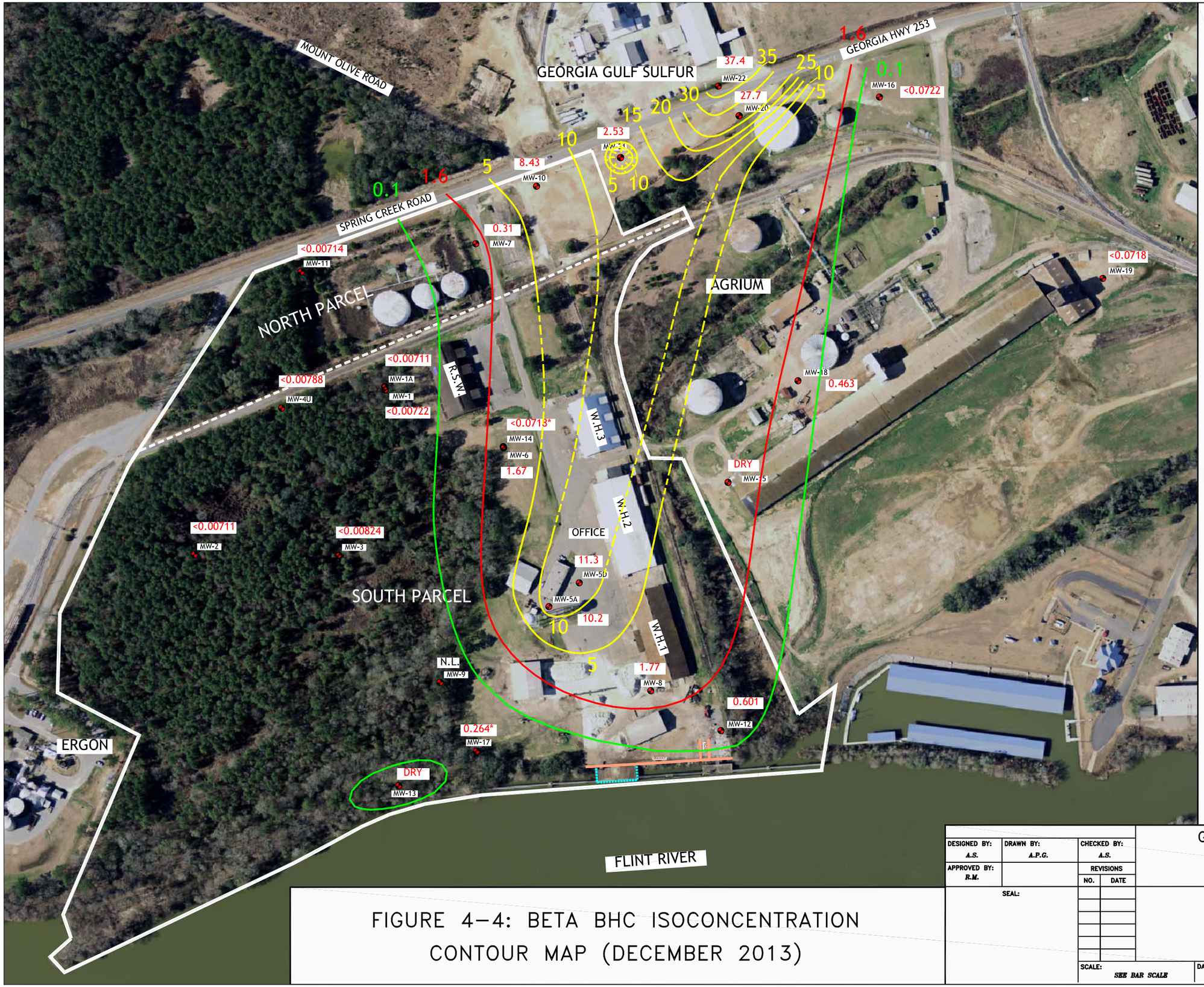
SEE BAR SCALE	12/26/2013	400007 – 4.5 – GPA BAINBRIDGE	



LEGEND:

MW−3	MONITORING WELL
N.L.	WELL NOT LOCATED
	GPA PROPERTY LINE DIVISION SEPARATING NORTH AND SOUTH PARCELS
R.S.W.	ROCK SALT WAREHOUSE
W.H.1	WAREHOUSE 1
W.H.2	WAREHOUSE 2
W.H.3	WAREHOUSE 3
2.53	BHC CONCENTRATION (ug/L)
J	TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTITATION LIMIT AND ABOVE THE DETECTION LIMIT
	BETA BHC CONTOUR
	TYPE 4 RRS LIMIT 1.6 ug/L
	DELINEATION STANDARD 0.1 ug/L
*	BHC CONCENTRATION AT MW NOT CONSIDERED BECAUSE TOP OF SCREEN IS EQUAL TO OR DEEPER THAN 50 FEET BELOW GROUND SURFACE
DRY	WELLS WERE DRY AND UNABLE TO BE SAMPLED
	SHEET PILE BULKHEAD
	EDGE OF PIER

NOTES:
- CONTOUR INTERVAL = 5 ug/L
- ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AND THE WAREHOUSE BUILDING ON AGRIUM PROPERTY HAVE BEEN REMOVED.

SOURCE:

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N

100 0 100 200 300

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 4−4: BETA BHC ISOCONCENTRATION CONTOUR MAP (DECEMBER 2013)

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APPROVED BY: R.M.		REVISIONS NO. / DATE	
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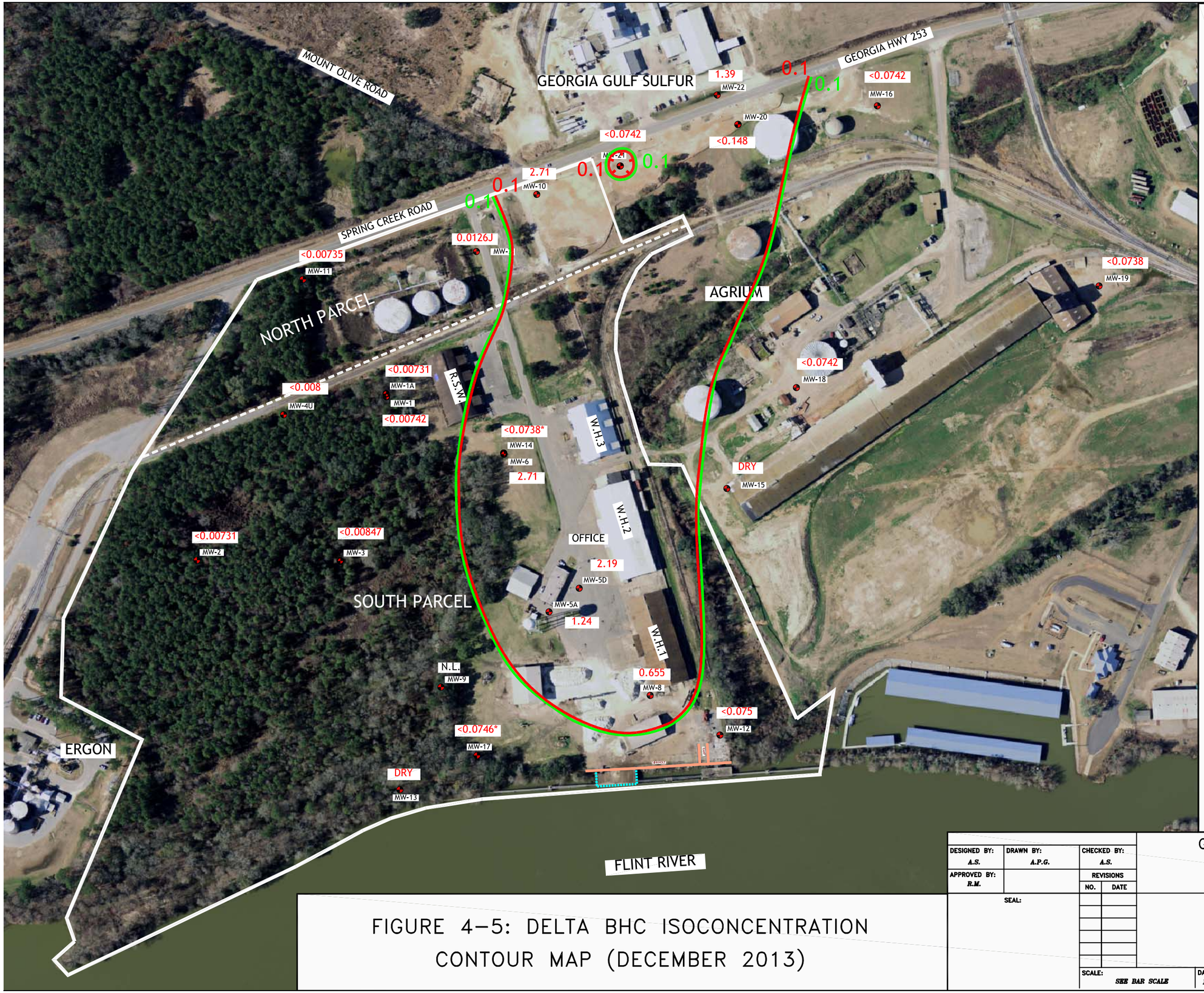
		SCALE: SEE BAR SCALE	DATE: 4/9/2014
		FILE: 400007 − 4.5 − GPA BAINBRIDGE	SHEET NO.:



LEGEND:

MW−3	MONITORING WELL
N.L.	WELL NOT LOCATED
	GPA PROPERTY LINE DIVISION SEPARATING NORTH AND SOUTH PARCELS
R.S.W.	ROCK SALT WAREHOUSE
W.H.1	WAREHOUSE 1
W.H.2	WAREHOUSE 2
W.H.3	WAREHOUSE 3
1.24	BHC CONCENTRATION (ug/L)
J	TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTITATION LIMIT AND ABOVE THE DETECTION LIMIT
DRY	WELLS WERE DRY AND UNABLE TO BE SAMPLED
	TYPE 4 RRS LIMIT 0.1 ug/L
	DELINEATION STANDARD 0.1 ug/L
*	GROUNDWATER ELEVATION FOR MW NOT CONSIDERED BECAUSE TOP OF SCREEN IS EQUAL TO OR DEEPER THAN 50 FEET BELOW GROUND SURFACE
	SHEET PILE BULKHEAD
	EDGE OF PIER

NOTES:
- CONTOUR INTERVAL = 5 ug/L
- ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AND THE WAREHOUSE BUILDING ON AGRIUM PROPERTY HAVE BEEN REMOVED.

SOURCE:

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N

100 0 100 200 300

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 4−5: DELTA BHC ISOCONCENTRATION CONTOUR MAP (DECEMBER 2013)

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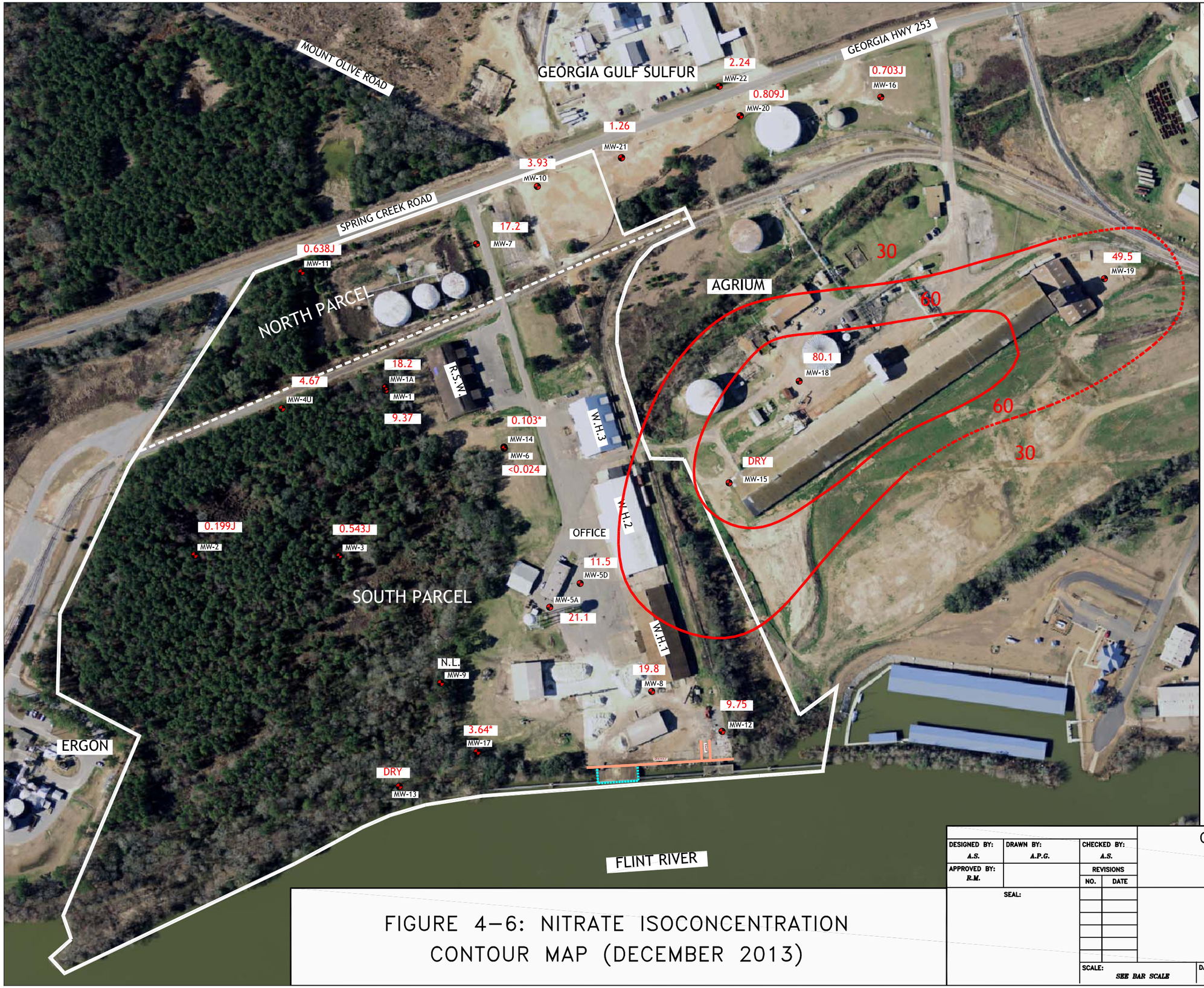
SEE BAR SCALE	12/26/2013	400007 − 4.5 − GPA BAINBRIDGE	



LEGEND:

MW–3	MONITORING WELL
N.L.	WELL NOT LOCATED
	GPA PROPERTY LINE DIVISION SEPARATING NORTH AND SOUTH PARCELS
R.S.W.	ROCK SALT WAREHOUSE
W.H.1	WAREHOUSE 1
W.H.2	WAREHOUSE 2
W.H.3	WAREHOUSE 3
49.5	NITRATE CONCENTRATION (mg/L)
J	TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTITATION LIMIT AND ABOVE THE DETECTION LIMIT
	NITRATE CONTOUR LINE
DRY	WELLS WERE DRY AND UNABLE TO BE SAMPLED
	NITRATE CONTOUR LINE
*	NITRATE CONCENTRATION AT MW NOT CONSIDERED BECAUSE TOP OF SCREEN IS EQUAL TO OR DEEPER THAN 50 FEET BELOW GROUND SURFACE
	SHEET PILE BULKHEAD
	EDGE OF PIER

NOTES:
- CONTOUR INTERVAL = 30 mg/L
- ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AND THE WAREHOUSE BUILDING ON AGRIUM PROPERTY HAVE BEEN REMOVED.

SOURCE:

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N

100 0 100 200 300

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 4–6: NITRATE ISOCONCENTRATION CONTOUR MAP (DECEMBER 2013)

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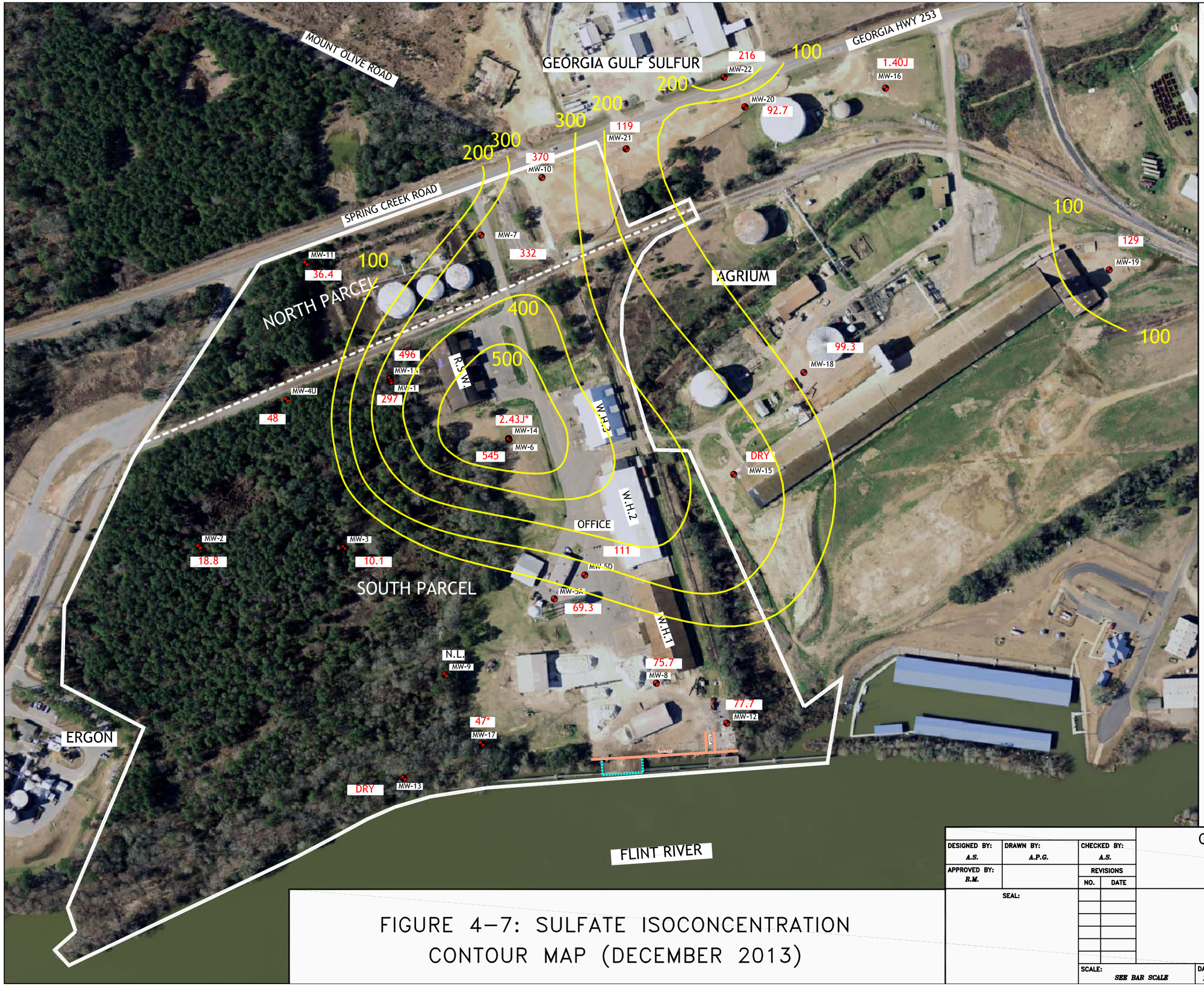

LEGEND:

MW–3	MONITORING WELL
N.L.	WELL NOT LOCATED
	GPA PROPERTY LINE DIVISION SEPARATING NORTH AND SOUTH PARCELS
R.S.W.	ROCK SALT WAREHOUSE
W.H.1	WAREHOUSE 1
W.H.2	WAREHOUSE 2
W.H.3	WAREHOUSE 3
129	SULFATE CONCENTRATION (mg/L)
J	TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTITATION LIMIT AND ABOVE THE DETECTION LIMIT
	SULFATE CONTOUR LINE
*	SULFATE CONCENTRATION AT MW NOT CONSIDERED BECAUSE TOP OF SCREEN IS EQUAL TO OR DEEPER THAN 50 FEET BELOW GROUND SURFACE
DRY	WELLS WERE DRY AND UNABLE TO BE SAMPLED
	SHEET PILE BULKHEAD
	EDGE OF PIER

NOTES:
- CONTOUR INTERVAL = 100 mg/L
- ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AND THE WAREHOUSE BUILDING ON AGRIUM PROPERTY HAVE BEEN REMOVED.

SOURCE:

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N

100 0 100 200 300

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 4–7: SULFATE ISOCONCENTRATION CONTOUR MAP (DECEMBER 2013)

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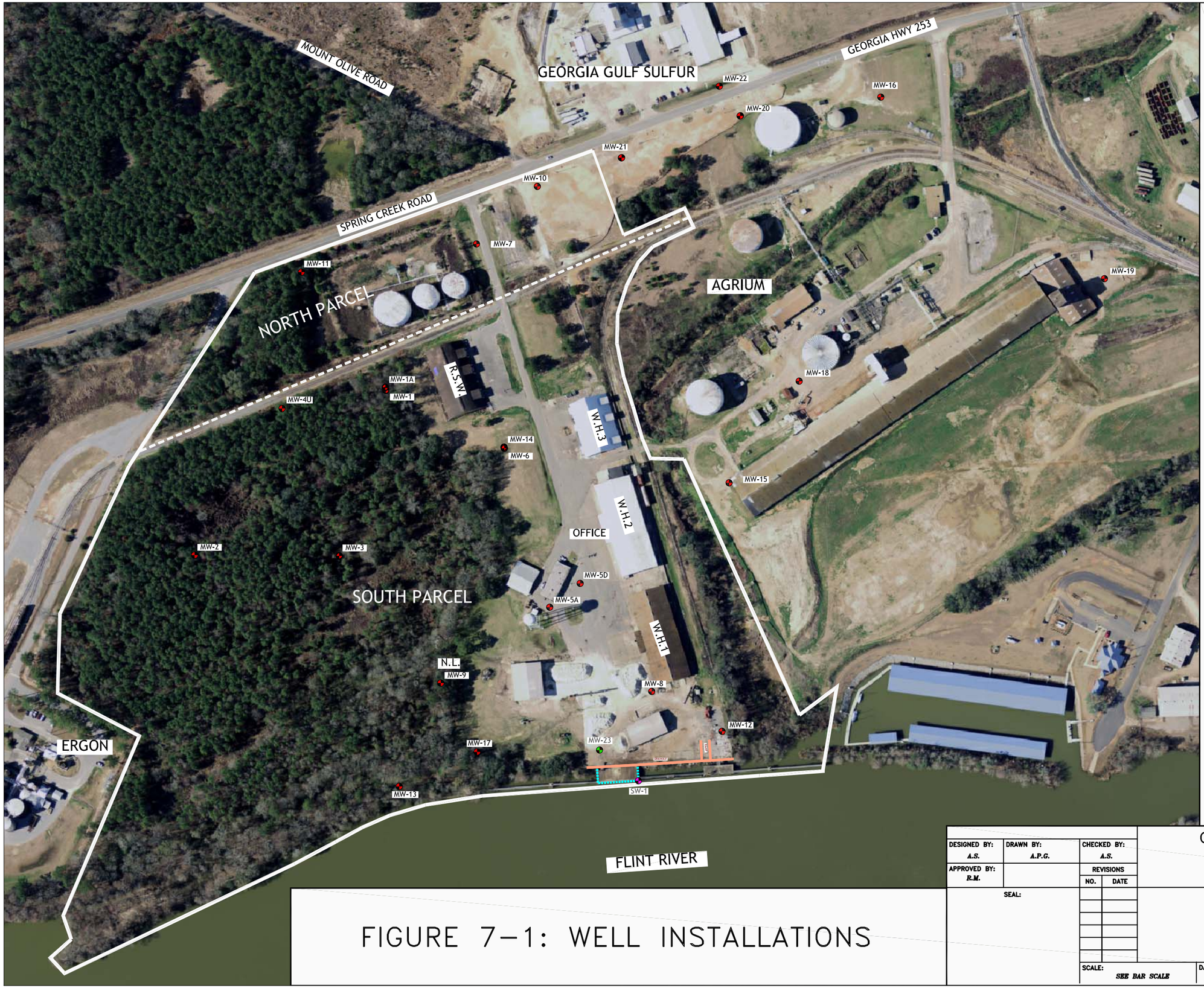

LEGEND:

MW–3	MONITORING WELL
MW–23	NEW MONITORING WELL INSTALLED APRIL 2014
SW–1	NEW STILLING WELL INSTALLED IN FLINT RIVER MARCH 2014
N.L.	WELL NOT LOCATED
	GPA PROPERTY LINE
	DIVISION SEPARATING NORTH AND SOUTH PARCELS
R.S.W.	ROCK SALT WAREHOUSE
W.H.1	WAREHOUSE 1
W.H.2	WAREHOUSE 2
W.H.3	WAREHOUSE 3
	SHEET PILE BULKHEAD
	EDGE OF PIER

SOURCE:

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N

100 0 100 200 300

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 7–1: WELL INSTALLATIONS

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HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

THIRD VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT A
FENCE LINE O & M MANUAL

Fence Line Operations and Maintenance Manual

Updated: 4/10/14

Photo 1: AOC-1 Fence Line South Gate with Warning Sign

Introduction

In accordance with the Georgia Ports Authority (GPA) Bainbridge Terminal (site) Voluntary Investigation and Remediation Plan (VIRP), area of concern 1 (AOC-1), illustrated in Figure 1, requires management of contaminated soils utilizing a security fence.

Fence Line Specifications

The security fence for AOC-1 was constructed in January 2014 with the following specifications, illustrated in Figure 2. The fence height is comprised of 7 vertical feet of 2-inch mesh, 9-gauge chain link fabric from the ground surface along the fence boundary as illustrated in Figure 1. The chain-link fabric is supported by 2-inch diameter galvanized steel poles extending 8 feet from the ground surface and spaced 8 feet apart. Along the top of the chain-link fabric is 1 foot high 3 stranded barbed wire angled 45 degrees from the vertical body of the fence. The total perimeter length of the fence line is 1,320 feet with two 16 foot wide vehicle gates as illustrated in Figure 1.

Fence Line O & M Overview

Proper operation and maintenance of the fence surrounding AOC-1 should be conducted in order to prevent human exposure to the contaminated soil enclosed. This manual will outline routine fence line guidelines and inspections that will help to ensure the viability of the security fence as an exposure pathway control measure as well as to ensure the health and safety of port personnel and site visitors.

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Fence Line Inspections	2
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Maintenance	3
Maintenance Continued	4

Figure 1: Simple Fence Line Site Map

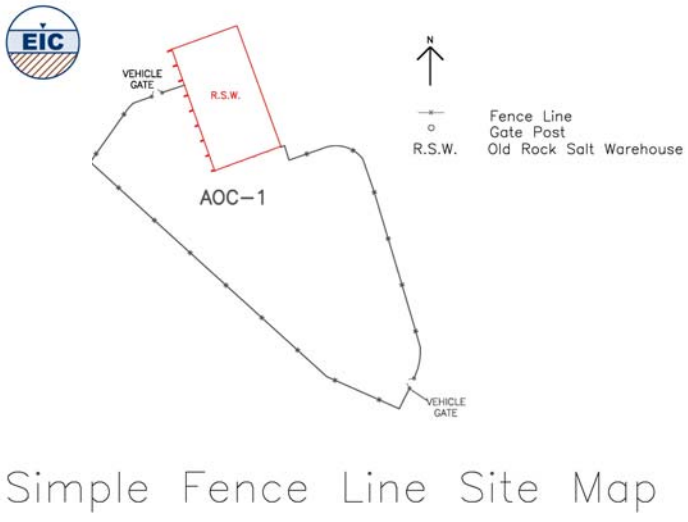


Figure 2: Fence Line Schematic Drawing

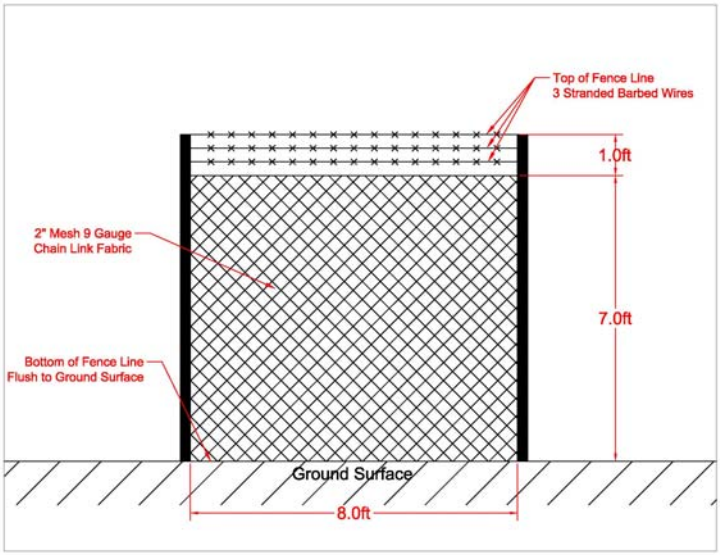


Photo 2: Fence Body Damage From Vandalism

Fence Line Inspections

Fence inspections are crucial to the health and safety of port personnel and site visitors. Inspections should be thorough and detail any damage, wear and tear, and other forms of malfunction throughout the fence line. Fence line inspections should be conducted bi-annually using the suggested points of interest (POI) provided in this document. Following is a suggested list of POI to inspect during fence line inspections.

- Bottom of Fence Line
- Top of Fence Line
- Barbed Wire Tension
- Gate Hinges
- Gate Latches
- Locks
- Ground Surface Near Fence Line
- Body of Fence
- Signs

All inspections should be well documented and any deficiencies or potential risks should be addressed for maintenance and repair as soon as possible. Regular maintenance of the fence line can prevent many breaches or deficiencies as well as costly repairs. Regular maintenance strategies are discussed further below and on page 3 & 4. Following is a detailed description of each POI.

Figure 3: POI Fence Line Schematic

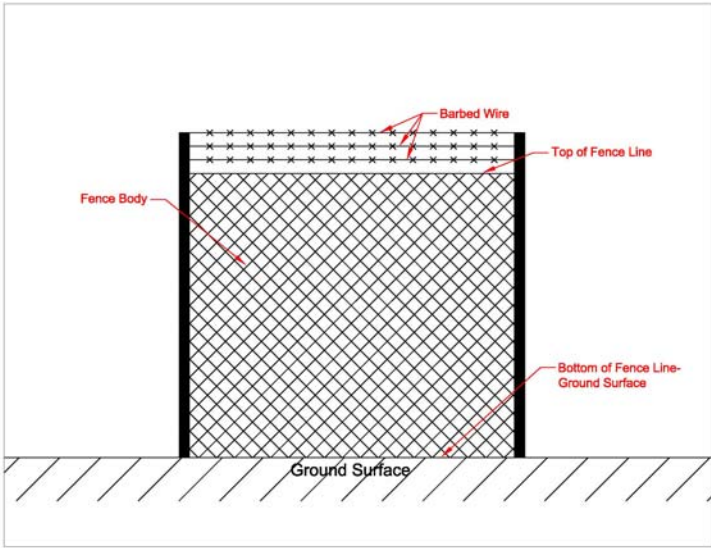
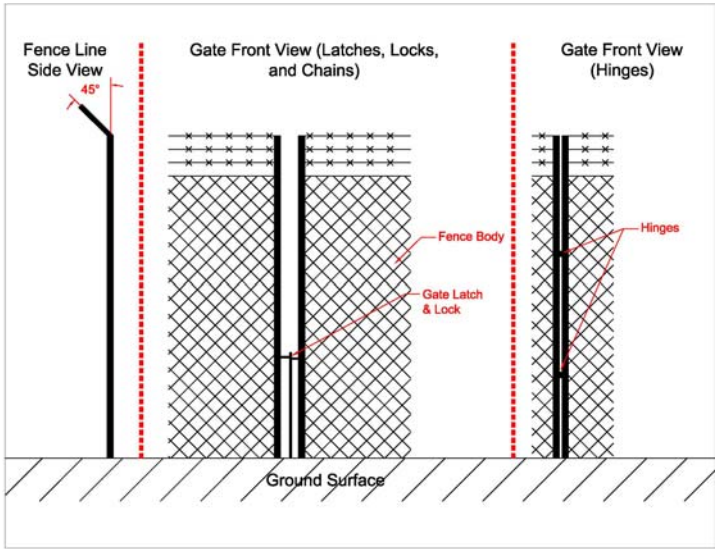


Figure 4: POI Gate Schematic and Fence Side View



Points of Interest

Figures 3 and 4 illustrate the points of interest described below. Any deficiencies in the points of interest listed below should be addressed as soon as possible either utilizing the suggested maintenance options listed on page 3 and 4 or by other conventional means.

Bottom of Fence Line and Ground Surface

The bottom edge of the fence line should be no greater than 2 inches above the ground surface, vertical, and undeformed. Erosion may occur near the fence line which could cause the ground surface to lower and allow unrestricted access to AOC-1. Animals may also burrow underneath the fence line, creating breaches. Any deformation at the bottom of the chain link fabric or deficiencies in the ground surface near the fence line should be noted.

Top of the Fence Line

Near the top of the fence line, the chain-link mesh should be vertical and the barbed wire should be angled at 45 degrees away from the fence body as illustrated in Figure 4. Fallen trees or tree limbs and other vegetation may damage the top of the security fence.

Barbed Wire Tension

The barbed wire at the top of the security fence should be taut and void of any deformations, breaks, or significant corrosion.

Gate Hinges and Latches

The two gates of the security fence should be the only access point for AOC-1 and, as such, they are an important point of

Points of Interest Continued

interest in the inspection list. The gate's hinges should properly operate with minimal force and the latches for the gate should hold the gate neatly in place without bending, sagging, or needing to force. Gate latches and hinges should also be inspected for corrosion, deformation, or cracks.

Locks

Locks on the fence line should be located on the latches of the two gates and should be secured at all times unless site access is necessary. Any corrosion or other damage, as well as tampering that may have occurred, should be noted. Key logs for gate keys should be kept when they are leant out to contractors or temporarily authorized GPA employees.

Body of Fence Line

When inspecting the body of the security fence, any holes or cuts in the fence line which may indicate tampering, should be noted, see Photo 2. Additionally, any deformation inward or outward, should be noted. The body should remain vertical and taut. Any corrosion or natural wear and tear which may cause failures in the security fence, should be noted. The body of the fence line should also be free of any major vegetative growth such as vines and trees, see Photos 3-5.

Signs

Make sure signs are visible and conspicuous. Hazardous site signs should be placed at no less than 200 foot intervals along the fence line. Signs should additionally be present at each gate.

Surroundings

Inspecting the surroundings of the security fence line can prevent much of the aforementioned damage to the security fence. When inspecting the surroundings, any threats that may cause future damage to the fence line such as dead trees or dead overhanging limbs, should be noted. Maintenance is a key element to fence security. If the fence line loses its integrity, it will lose its purpose as both a soil management practice as well as a measure to keep site personnel safe.

Photo 3: Damage to Fence by Fallen Tree

Photo 4: Tree growing through fence

Maintenance

Maintenance on the security fence should be conducted as soon as possible after a deficiency or potential threat is noted. Maintenance should not be postponed until the next inspection.

Following is a list of common maintenance issues that occur for security fences. Be aware that not all maintenance scenarios are presented in this manual and site personnel should use their own judgment on the most practical way to address security fence deficiencies and potential threats.

Preventative Maintenance

This section describes routine activities which may alleviate the fence line from potential threats, which may cause future damage. During and in between inspections if any dead trees or tree limbs that pose a threat to the fence line are noted, they should be removed as soon as possible. Removal of trees or tree limbs should be conducted by a professional and any large trees or tree limbs should be cut so as not to fall towards the security fence. It is suggested that preventative maintenance inspections, such as this, be conducted on a regular basis and additionally when inclement weather is approaching the site, such as hurricanes, tornados, or other storms with high wind speeds predicted.

Impact Damage

Impact damage describes any bending, breaking, deformation, or other deficiency occurring due to a blunt force such as a fallen tree or tree limb, ramming with a vehicle, vandalism, etc.

Impact damage should be addressed by the degree to which the fence line was

Photo 5: Vine Overgrowth on Fence Line Body

Maintenance Continued

damaged. Once all debris or other cause of the incident has been cleared, the degree of damage to the body, top of fence line, fence posts, and tension in the barbed wire, should be noted.

If any such damage causes a failure to meet the purpose and objective of the security fence, as discussed on page 1, then repairs on this area should be scheduled as soon as possible. Repairs should then be made to restore the fence to its original condition. In the interim, temporary measures should be made to secure AOC-1 to the extent possible.

Corrosion

Corrosion may occur throughout all areas of the fence line and can undermine the objectives of key elements for both soil management and personnel safety. Key areas to focus on regarding corrosion include the gate hinges and latches, locks, barbed wire, the body of the fence and signs.

The hinges and latches of the gates compose the few moving parts of the security fence line. Because of this, it is important that their range of motion not impeded by rust or other types of corrosion.

Hinges, latches, and locks should be well maintained with lubricants and replaced when they fail to meet project objectives. If any portion of the body of the fence line should become corroded to the point of undermining its structural integrity, that portion should be replaced as soon as possible. Minor corrosion of the body of the fence should be noted but may not require replacing parts of the fence line. Signs may also fade over time and should be replaced as soon as possible when they become illegible.

Overgrowth

When the security fence was constructed, parts of the nearby vegetation were cut back from the fence, however, regrowth is to be expected to reach the fence line in the form of vines, tree saplings, and shrubs.

In order to prevent overgrowth, routine maintenance in between bi-annual inspections should be conducted to remove any overgrowth that may undermine the integrity of the fence line. The most common area for over growth to take place is the body of the fence line. Tree saplings may uproot fence posts and rip apart the chain link fabric. Vines may also grow on the chain link body that can exacerbate or hide areas of corrosion or other damage which may be missed during inspection.

Tree saplings and shrubs should be uprooted, not cut, in order to remove them from the fence line. Vines should be cut away from the fence in a manner that does not damage the fence and then uprooted to prevent regrowth.

If any damage or excessive covering of the fence body occurs due to overgrowth, remove the overgrowth from the area of the fence line and replace any sections of the fence line that do not meet the goals and objectives of the security fence.

Fence Cutting and Vandalism

If any areas of the fence have cut marks that appear to be caused by wire cutters or bolt cutters, this may indicate a security breach at the site and should be reported to the site administrator as soon as possible. Any holes in the fence line should be repaired as soon as possible while attempts should be made to prevent any unauthorized personnel from entering AOC-1.

Vandalism may also occur in the form of defacement such as spray paint or posting signs and flyers. Any form of vandalism should be removed from the fence line by site personnel as soon as possible.

Erosion or Burrowing

The ground surface near the bottom of the fence line can be susceptible to erosion if adequate vegetative ground coverage is not available. It is important that any form of predictable erosion near the fence line be remediated before a deficiency is reached at the fence line. This may be done by placing properly engineered soils and planting small erosion preventing plants such as grass near the fence line. Any deficiencies in the ground surface near the fence line should be addressed as soon as possible with engineered back fill or other ground cover methods.

Animals may also burrow underneath the fence line and create breaches. These areas must be addressed with surface cover as well and future preventative measures such as placing mesh wiring just below ground surface near previously burrowed areas may be necessary.

Prepared by:

ENVIRONMENTAL INTERNATIONAL CORPORATION

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THIRD VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT B
AOC-3 SOIL ANALYTICAL RESULTS

Analytical Report 473722

for

Environmental International Corporation

Project Manager: Alan Sanders

GPA-Bainbridge

400007-4.4

15-NOV-13

Collected By: Client

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Texas (T104704215-13-15-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
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Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

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Project Manager: **Alan Sanders**
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161 Kimball Bridge Road, Suite 100
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Reference: XENCO Report No(s): **473722**
GPA-Bainbridge
Project Address: GA

Alan Sanders:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 473722. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 473722 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Eben D. Buchanan, Jr.

Eben Buchanan
Project Manager

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Sample Cross Reference 473722

Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S1 0.0-0.5	S	11-05-13 10:43		473722-001
S1 0.5-1.0	S	11-05-13 10:55		473722-002
S2S A 0.0-0.5	S	11-05-13 11:46		473722-004
S2S A 0.5-1.0	S	11-05-13 11:56		473722-005
S3 N 0.0-0.5	S	11-05-13 12:07		473722-006
S3 N 0.5-1.0	S	11-05-13 12:18		473722-007
S4 E 0.0-0.5	S	11-05-13 12:32		473722-008
S4 E 0.5-1.0	S	11-05-13 12:43		473722-009
S5 W 0.0-0.5	S	11-05-13 12:56		473722-010
S5 W 0.5-1.0	S	11-05-13 13:03		473722-011
Auger Rinsate	W	11-05-13 16:17		473722-012
S2S 0.0-0.5	S	11-05-13 11:15		Not Analyzed
Trip Blank	W	11-05-13 00:00		Not Analyzed

Sample receipt non conformances and comments:

At the client's request the analysis was cancelled for samples S2S 0.0-0.5 and Trip Blank.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-927540 Pesticides by SW-846 8081B
Endrin recovered above QC limits in the Blank Spike and Duplicate. Endrin recovered above QC limits in the Matrix Spike. Endrin was not detected in the associated samples.

Tetrachloro-m-xylene recovered below QC limits . Matrix interferences is suspected.
Samples affected are: 473722-001,473722-002,473722-010,473722-007,473722-008,473722-005.

Certificate of Analytical Results 473722

Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id: **S1 0.0-0.5**
Lab Sample Id: 473722-001

Matrix: Soil
Date Collected: 11.05.13 10.43

Date Received:11.08.13 17.07

Analytical Method: Pesticides by SW-846 8081B
Tech: RIM
Analyst: KKO
Seq Number: 927540

Date Prep: 11.12.13 12.09

Prep Method: SW3550
% Moisture: 24.89
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	8.86	0.975	ug/kg	11.13.13 16.53	U	10
4,4-DDE	72-55-9	U	8.86	3.68	ug/kg	11.13.13 16.53	U	10
4,4-DDT	50-29-3	U	8.86	1.77	ug/kg	11.13.13 16.53	U	10
Aldrin	309-00-2	U	8.86	3.99	ug/kg	11.13.13 16.53	U	10
Alpha-BHC	319-84-6	U	8.86	1.99	ug/kg	11.13.13 16.53	U	10
Alpha-Chlordane	5103-71-9	U	8.86	2.39	ug/kg	11.13.13 16.53	U	10
Beta-BHC	319-85-7	U	8.86	1.86	ug/kg	11.13.13 16.53	U	10
Delta-BHC	319-86-8	U	8.86	1.86	ug/kg	11.13.13 16.53	U	10
Dieldrin	60-57-1	U	8.86	2.88	ug/kg	11.13.13 16.53	U	10
Endosulfan I	959-98-8	U	8.86	2.53	ug/kg	11.13.13 16.53	U	10
Endosulfan II	33213-65-9	U	8.86	2.53	ug/kg	11.13.13 16.53	U	10
Endosulfan Sulfate	1031-07-8	U	8.86	2.61	ug/kg	11.13.13 16.53	U	10
Endrin	72-20-8	U	8.86	1.11	ug/kg	11.13.13 16.53	U	10
Endrin Aldehyde	7421-93-4	U	8.86	1.99	ug/kg	11.13.13 16.53	U	10
Endrin Ketone	53494-70-5	U	8.86	2.61	ug/kg	11.13.13 16.53	U	10
Gamma-BHC (Lindane)	58-89-9	U	8.86	3.19	ug/kg	11.13.13 16.53	U	10
Gamma-Chlordane	5103-74-2	U	8.86	2.39	ug/kg	11.13.13 16.53	U	10
Heptachlor	76-44-8	U	8.86	1.55	ug/kg	11.13.13 16.53	U	10
Heptachlor Epoxide	1024-57-3	U	8.86	0.753	ug/kg	11.13.13 16.53	U	10
Methoxychlor	72-43-5	U	8.86	2.53	ug/kg	11.13.13 16.53	U	10
Chlordane	12789-03-6	U	222	22.6	ug/kg	11.13.13 16.53	U	10
Toxaphene	8001-35-2	**228**	222	23.5	ug/kg	11.13.13 16.53		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	27	%	35-135	11.13.13 16.53	**
Decachlorobiphenyl	2051-24-3	30	%	25-143	11.13.13 16.53	

Certificate of Analytical Results 473722

Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id: **S1 0.5-1.0**
Matrix: Soil
Date Received:11.08.13 17.07
Lab Sample Id: 473722-002
Date Collected: 11.05.13 10.55

Analytical Method: Pesticides by SW-846 8081B
Prep Method: SW3550
Tech: RIM
% Moisture: 19.3
Analyst: KKO
Date Prep: 11.12.13 12.12
Basis: Dry Weight
Seq Number: 927540
SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	8.25	0.908	ug/kg	11.13.13 17.11	U	10
4,4-DDE	72-55-9	U	8.25	3.42	ug/kg	11.13.13 17.11	U	10
4,4-DDT	50-29-3	U	8.25	1.65	ug/kg	11.13.13 17.11	U	10
Aldrin	309-00-2	U	8.25	3.71	ug/kg	11.13.13 17.11	U	10
Alpha-BHC	319-84-6	U	8.25	1.86	ug/kg	11.13.13 17.11	U	10
Alpha-Chlordane	5103-71-9	U	8.25	2.23	ug/kg	11.13.13 17.11	U	10
Beta-BHC	319-85-7	U	8.25	1.73	ug/kg	11.13.13 17.11	U	10
Delta-BHC	319-86-8	U	8.25	1.73	ug/kg	11.13.13 17.11	U	10
Dieldrin	60-57-1	U	8.25	2.68	ug/kg	11.13.13 17.11	U	10
Endosulfan I	959-98-8	U	8.25	2.35	ug/kg	11.13.13 17.11	U	10
Endosulfan II	33213-65-9	U	8.25	2.35	ug/kg	11.13.13 17.11	U	10
Endosulfan Sulfate	1031-07-8	U	8.25	2.43	ug/kg	11.13.13 17.11	U	10
Endrin	72-20-8	U	8.25	1.03	ug/kg	11.13.13 17.11	U	10
Endrin Aldehyde	7421-93-4	U	8.25	1.86	ug/kg	11.13.13 17.11	U	10
Endrin Ketone	53494-70-5	U	8.25	2.43	ug/kg	11.13.13 17.11	U	10
Gamma-BHC (Lindane)	58-89-9	U	8.25	2.97	ug/kg	11.13.13 17.11	U	10
Gamma-Chlordane	5103-74-2	U	8.25	2.23	ug/kg	11.13.13 17.11	U	10
Heptachlor	76-44-8	U	8.25	1.44	ug/kg	11.13.13 17.11	U	10
Heptachlor Epoxide	1024-57-3	U	8.25	0.701	ug/kg	11.13.13 17.11	U	10
Methoxychlor	72-43-5	U	8.25	2.35	ug/kg	11.13.13 17.11	U	10
Chlordane	12789-03-6	U	206	21.0	ug/kg	11.13.13 17.11	U	10
Toxaphene	8001-35-2	**131**	206	21.9	ug/kg	11.13.13 17.11	J	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	30	%	35-135	11.13.13 17.11	**
Decachlorobiphenyl	2051-24-3	31	%	25-143	11.13.13 17.11	

Certificate of Analytical Results 473722

Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id: **S2S A 0.0-0.5**
Lab Sample Id: 473722-004
Matrix: Soil
Date Collected: 11.05.13 11.46
Date Received: 11.08.13 17.07

Analytical Method: Pesticides by SW-846 8081B
Tech: RIM
Analyst: KKO
Seq Number: 927540
Date Prep: 11.12.13 12.18
Prep Method: SW3550
% Moisture: 22.76
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U		8.61	0.947	ug/kg	11.13.13 17.47	U	10
4,4-DDE	72-55-9	U		8.61	3.57	ug/kg	11.13.13 17.47	U	10
4,4-DDT	50-29-3	U		8.61	1.72	ug/kg	11.13.13 17.47	U	10
Aldrin	309-00-2	U		8.61	3.87	ug/kg	11.13.13 17.47	U	10
Alpha-BHC	319-84-6	U		8.61	1.94	ug/kg	11.13.13 17.47	U	10
Alpha-Chlordane	5103-71-9	U		8.61	2.32	ug/kg	11.13.13 17.47	U	10
Beta-BHC	319-85-7	U		8.61	1.81	ug/kg	11.13.13 17.47	U	10
Delta-BHC	319-86-8	U		8.61	1.81	ug/kg	11.13.13 17.47	U	10
Dieldrin	60-57-1	U		8.61	2.80	ug/kg	11.13.13 17.47	U	10
Endosulfan I	959-98-8	U		8.61	2.45	ug/kg	11.13.13 17.47	U	10
Endosulfan II	33213-65-9	U		8.61	2.45	ug/kg	11.13.13 17.47	U	10
Endosulfan Sulfate	1031-07-8	U		8.61	2.54	ug/kg	11.13.13 17.47	U	10
Endrin	72-20-8	U		8.61	1.08	ug/kg	11.13.13 17.47	U	10
Endrin Aldehyde	7421-93-4	U		8.61	1.94	ug/kg	11.13.13 17.47	U	10
Endrin Ketone	53494-70-5	U		8.61	2.54	ug/kg	11.13.13 17.47	U	10
Gamma-BHC (Lindane)	58-89-9	U		8.61	3.10	ug/kg	11.13.13 17.47	U	10
Gamma-Chlordane	5103-74-2	U		8.61	2.32	ug/kg	11.13.13 17.47	U	10
Heptachlor	76-44-8	U		8.61	1.50	ug/kg	11.13.13 17.47	U	10
Heptachlor Epoxide	1024-57-3	U		8.61	0.732	ug/kg	11.13.13 17.47	U	10
Methoxychlor	72-43-5	U		8.61	2.45	ug/kg	11.13.13 17.47	U	10
Chlordane	12789-03-6	U		215	22.0	ug/kg	11.13.13 17.47	U	10
Toxaphene	8001-35-2	**224**		215	22.8	ug/kg	11.13.13 17.47		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	35	%	35-135	11.13.13 17.47	
Decachlorobiphenyl	2051-24-3	33	%	25-143	11.13.13 17.47	

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Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id: **S2S A 0.5-1.0**
Lab Sample Id: 473722-005
Matrix: Soil
Date Collected: 11.05.13 11.56
Date Received: 11.08.13 17.07

Analytical Method: Pesticides by SW-846 8081B
Tech: RIM
Analyst: KKO
Seq Number: 927540
Date Prep: 11.12.13 12.21
Prep Method: SW3550
% Moisture: 22.42
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	8.59	0.945	ug/kg	11.13.13 18.05	U	10
4,4-DDE	72-55-9	U	8.59	3.56	ug/kg	11.13.13 18.05	U	10
4,4-DDT	50-29-3	U	8.59	1.72	ug/kg	11.13.13 18.05	U	10
Aldrin	309-00-2	U	8.59	3.86	ug/kg	11.13.13 18.05	U	10
Alpha-BHC	319-84-6	U	8.59	1.93	ug/kg	11.13.13 18.05	U	10
Alpha-Chlordane	5103-71-9	U	8.59	2.32	ug/kg	11.13.13 18.05	U	10
Beta-BHC	319-85-7	U	8.59	1.80	ug/kg	11.13.13 18.05	U	10
Delta-BHC	319-86-8	U	8.59	1.80	ug/kg	11.13.13 18.05	U	10
Dieldrin	60-57-1	U	8.59	2.79	ug/kg	11.13.13 18.05	U	10
Endosulfan I	959-98-8	U	8.59	2.45	ug/kg	11.13.13 18.05	U	10
Endosulfan II	33213-65-9	U	8.59	2.45	ug/kg	11.13.13 18.05	U	10
Endosulfan Sulfate	1031-07-8	U	8.59	2.53	ug/kg	11.13.13 18.05	U	10
Endrin	72-20-8	U	8.59	1.07	ug/kg	11.13.13 18.05	U	10
Endrin Aldehyde	7421-93-4	U	8.59	1.93	ug/kg	11.13.13 18.05	U	10
Endrin Ketone	53494-70-5	U	8.59	2.53	ug/kg	11.13.13 18.05	U	10
Gamma-BHC (Lindane)	58-89-9	U	8.59	3.09	ug/kg	11.13.13 18.05	U	10
Gamma-Chlordane	5103-74-2	U	8.59	2.32	ug/kg	11.13.13 18.05	U	10
Heptachlor	76-44-8	U	8.59	1.50	ug/kg	11.13.13 18.05	U	10
Heptachlor Epoxide	1024-57-3	U	8.59	0.730	ug/kg	11.13.13 18.05	U	10
Methoxychlor	72-43-5	U	8.59	2.45	ug/kg	11.13.13 18.05	U	10
Chlordane	12789-03-6	U	215	21.9	ug/kg	11.13.13 18.05	U	10
Toxaphene	8001-35-2	**139**	215	22.8	ug/kg	11.13.13 18.05	J	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	31	%	35-135	11.13.13 18.05	**
Decachlorobiphenyl	2051-24-3	30	%	25-143	11.13.13 18.05	

Certificate of Analytical Results 473722

Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id: **S3 N 0.0-0.5**
Lab Sample Id: 473722-006
Matrix: Soil
Date Collected: 11.05.13 12.07
Date Received: 11.08.13 17.07

Analytical Method: Pesticides by SW-846 8081B
Tech: RIM
Analyst: KKO
Seq Number: 927540
Date Prep: 11.12.13 12.24
Prep Method: SW3550
% Moisture: 16.77
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	7.99	0.879	ug/kg	11.13.13 18.23	U	10
4,4-DDE	72-55-9	U	7.99	3.32	ug/kg	11.13.13 18.23	U	10
4,4-DDT	50-29-3	U	7.99	1.60	ug/kg	11.13.13 18.23	U	10
Aldrin	309-00-2	U	7.99	3.59	ug/kg	11.13.13 18.23	U	10
Alpha-BHC	319-84-6	U	7.99	1.80	ug/kg	11.13.13 18.23	U	10
Alpha-Chlordane	5103-71-9	U	7.99	2.16	ug/kg	11.13.13 18.23	U	10
Beta-BHC	319-85-7	U	7.99	1.68	ug/kg	11.13.13 18.23	U	10
Delta-BHC	319-86-8	U	7.99	1.68	ug/kg	11.13.13 18.23	U	10
Dieldrin	60-57-1	U	7.99	2.60	ug/kg	11.13.13 18.23	U	10
Endosulfan I	959-98-8	U	7.99	2.28	ug/kg	11.13.13 18.23	U	10
Endosulfan II	33213-65-9	U	7.99	2.28	ug/kg	11.13.13 18.23	U	10
Endosulfan Sulfate	1031-07-8	U	7.99	2.36	ug/kg	11.13.13 18.23	U	10
Endrin	72-20-8	U	7.99	0.999	ug/kg	11.13.13 18.23	U	10
Endrin Aldehyde	7421-93-4	U	7.99	1.80	ug/kg	11.13.13 18.23	U	10
Endrin Ketone	53494-70-5	U	7.99	2.36	ug/kg	11.13.13 18.23	U	10
Gamma-BHC (Lindane)	58-89-9	U	7.99	2.88	ug/kg	11.13.13 18.23	U	10
Gamma-Chlordane	5103-74-2	U	7.99	2.16	ug/kg	11.13.13 18.23	U	10
Heptachlor	76-44-8	U	7.99	1.39	ug/kg	11.13.13 18.23	U	10
Heptachlor Epoxide	1024-57-3	U	7.99	0.679	ug/kg	11.13.13 18.23	U	10
Methoxychlor	72-43-5	U	7.99	2.28	ug/kg	11.13.13 18.23	U	10
Chlordane	12789-03-6	U	200	20.4	ug/kg	11.13.13 18.23	U	10
Toxaphene	8001-35-2	**113**	200	21.2	ug/kg	11.13.13 18.23	J	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	35	%	35-135	11.13.13 18.23	
Decachlorobiphenyl	2051-24-3	35	%	25-143	11.13.13 18.23	

Certificate of Analytical Results 473722

Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id:	**S3 N 0.5-1.0**	Matrix:	Soil	Date Received:	11.08.13 17.07
Lab Sample Id:	473722-007	Date Collected:	11.05.13 12.18		
Analytical Method:	Pesticides by SW-846 8081B			Prep Method:	SW3550
Tech:	RIM			% Moisture:	15.96
Analyst:	KKO	Date Prep:	11.12.13 12.33	Basis:	Dry Weight
Seq Number:	927540			SUB:	E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	7.91	0.871	ug/kg	11.13.13 19.16	U	10
4,4-DDE	72-55-9	U	7.91	3.28	ug/kg	11.13.13 19.16	U	10
4,4-DDT	50-29-3	U	7.91	1.58	ug/kg	11.13.13 19.16	U	10
Aldrin	309-00-2	U	7.91	3.56	ug/kg	11.13.13 19.16	U	10
Alpha-BHC	319-84-6	U	7.91	1.78	ug/kg	11.13.13 19.16	U	10
Alpha-Chlordane	5103-71-9	U	7.91	2.14	ug/kg	11.13.13 19.16	U	10
Beta-BHC	319-85-7	U	7.91	1.66	ug/kg	11.13.13 19.16	U	10
Delta-BHC	319-86-8	U	7.91	1.66	ug/kg	11.13.13 19.16	U	10
Dieldrin	60-57-1	U	7.91	2.57	ug/kg	11.13.13 19.16	U	10
Endosulfan I	959-98-8	U	7.91	2.26	ug/kg	11.13.13 19.16	U	10
Endosulfan II	33213-65-9	U	7.91	2.26	ug/kg	11.13.13 19.16	U	10
Endosulfan Sulfate	1031-07-8	U	7.91	2.33	ug/kg	11.13.13 19.16	U	10
Endrin	72-20-8	U	7.91	0.989	ug/kg	11.13.13 19.16	U	10
Endrin Aldehyde	7421-93-4	U	7.91	1.78	ug/kg	11.13.13 19.16	U	10
Endrin Ketone	53494-70-5	U	7.91	2.33	ug/kg	11.13.13 19.16	U	10
Gamma-BHC (Lindane)	58-89-9	U	7.91	2.85	ug/kg	11.13.13 19.16	U	10
Gamma-Chlordane	5103-74-2	U	7.91	2.14	ug/kg	11.13.13 19.16	U	10
Heptachlor	76-44-8	U	7.91	1.38	ug/kg	11.13.13 19.16	U	10
Heptachlor Epoxide	1024-57-3	U	7.91	0.673	ug/kg	11.13.13 19.16	U	10
Methoxychlor	72-43-5	U	7.91	2.26	ug/kg	11.13.13 19.16	U	10
Chlordane	12789-03-6	U	198	20.2	ug/kg	11.13.13 19.16	U	10
Toxaphene	8001-35-2	**464**	198	21.0	ug/kg	11.13.13 19.16		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	34	%	35-135	11.13.13 19.16	**
Decachlorobiphenyl	2051-24-3	31	%	25-143	11.13.13 19.16	

Certificate of Analytical Results 473722

Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id: **S4 E 0.0-0.5**
Lab Sample Id: 473722-008

Matrix: Soil
Date Collected: 11.05.13 12.32

Date Received:11.08.13 17.07

Analytical Method: Pesticides by SW-846 8081B
Tech: RIM
Analyst: KKO
Seq Number: 927540

Date Prep: 11.12.13 12.36

Prep Method: SW3550
% Moisture: 16.37
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	7.96	0.875	ug/kg	11.13.13 19.34	U	10
4,4-DDE	72-55-9	U	7.96	3.30	ug/kg	11.13.13 19.34	U	10
4,4-DDT	50-29-3	U	7.96	1.59	ug/kg	11.13.13 19.34	U	10
Aldrin	309-00-2	U	7.96	3.58	ug/kg	11.13.13 19.34	U	10
Alpha-BHC	319-84-6	U	7.96	1.79	ug/kg	11.13.13 19.34	U	10
Alpha-Chlordane	5103-71-9	U	7.96	2.15	ug/kg	11.13.13 19.34	U	10
Beta-BHC	319-85-7	U	7.96	1.67	ug/kg	11.13.13 19.34	U	10
Delta-BHC	319-86-8	U	7.96	1.67	ug/kg	11.13.13 19.34	U	10
Dieldrin	60-57-1	U	7.96	2.59	ug/kg	11.13.13 19.34	U	10
Endosulfan I	959-98-8	U	7.96	2.27	ug/kg	11.13.13 19.34	U	10
Endosulfan II	33213-65-9	U	7.96	2.27	ug/kg	11.13.13 19.34	U	10
Endosulfan Sulfate	1031-07-8	U	7.96	2.35	ug/kg	11.13.13 19.34	U	10
Endrin	72-20-8	U	7.96	0.995	ug/kg	11.13.13 19.34	U	10
Endrin Aldehyde	7421-93-4	U	7.96	1.79	ug/kg	11.13.13 19.34	U	10
Endrin Ketone	53494-70-5	U	7.96	2.35	ug/kg	11.13.13 19.34	U	10
Gamma-BHC (Lindane)	58-89-9	U	7.96	2.87	ug/kg	11.13.13 19.34	U	10
Gamma-Chlordane	5103-74-2	U	7.96	2.15	ug/kg	11.13.13 19.34	U	10
Heptachlor	76-44-8	U	7.96	1.39	ug/kg	11.13.13 19.34	U	10
Heptachlor Epoxide	1024-57-3	U	7.96	0.676	ug/kg	11.13.13 19.34	U	10
Methoxychlor	72-43-5	U	7.96	2.27	ug/kg	11.13.13 19.34	U	10
Chlordane	12789-03-6	U	199	20.3	ug/kg	11.13.13 19.34	U	10
Toxaphene	8001-35-2	**259**	199	21.1	ug/kg	11.13.13 19.34		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	32	%	35-135	11.13.13 19.34	**
Decachlorobiphenyl	2051-24-3	32	%	25-143	11.13.13 19.34	

Certificate of Analytical Results 473722

Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id:	**S4 E 0.5-1.0**	Matrix:	Soil	Date Received:	11.08.13 17.07
Lab Sample Id:	473722-009	Date Collected:	11.05.13 12.43		
Analytical Method:	Pesticides by SW-846 8081B			Prep Method:	SW3550
Tech:	RIM			% Moisture:	16.13
Analyst:	KKO	Date Prep:	11.12.13 12.39	Basis:	Dry Weight
Seq Number:	927540			SUB:	E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	7.94	0.874	ug/kg	11.13.13 19.52	U	10
4,4-DDE	72-55-9	U	7.94	3.30	ug/kg	11.13.13 19.52	U	10
4,4-DDT	50-29-3	U	7.94	1.59	ug/kg	11.13.13 19.52	U	10
Aldrin	309-00-2	U	7.94	3.57	ug/kg	11.13.13 19.52	U	10
Alpha-BHC	319-84-6	U	7.94	1.79	ug/kg	11.13.13 19.52	U	10
Alpha-Chlordane	5103-71-9	U	7.94	2.14	ug/kg	11.13.13 19.52	U	10
Beta-BHC	319-85-7	U	7.94	1.67	ug/kg	11.13.13 19.52	U	10
Delta-BHC	319-86-8	U	7.94	1.67	ug/kg	11.13.13 19.52	U	10
Dieldrin	60-57-1	U	7.94	2.58	ug/kg	11.13.13 19.52	U	10
Endosulfan I	959-98-8	U	7.94	2.26	ug/kg	11.13.13 19.52	U	10
Endosulfan II	33213-65-9	U	7.94	2.26	ug/kg	11.13.13 19.52	U	10
Endosulfan Sulfate	1031-07-8	U	7.94	2.34	ug/kg	11.13.13 19.52	U	10
Endrin	72-20-8	U	7.94	0.993	ug/kg	11.13.13 19.52	U	10
Endrin Aldehyde	7421-93-4	U	7.94	1.79	ug/kg	11.13.13 19.52	U	10
Endrin Ketone	53494-70-5	U	7.94	2.34	ug/kg	11.13.13 19.52	U	10
Gamma-BHC (Lindane)	58-89-9	U	7.94	2.86	ug/kg	11.13.13 19.52	U	10
Gamma-Chlordane	5103-74-2	U	7.94	2.14	ug/kg	11.13.13 19.52	U	10
Heptachlor	76-44-8	U	7.94	1.39	ug/kg	11.13.13 19.52	U	10
Heptachlor Epoxide	1024-57-3	U	7.94	0.675	ug/kg	11.13.13 19.52	U	10
Methoxychlor	72-43-5	U	7.94	2.26	ug/kg	11.13.13 19.52	U	10
Chlordane	12789-03-6	U	199	20.3	ug/kg	11.13.13 19.52	U	10
Toxaphene	8001-35-2	**357**	199	21.1	ug/kg	11.13.13 19.52		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	36	%	35-135	11.13.13 19.52	
Decachlorobiphenyl	2051-24-3	34	%	25-143	11.13.13 19.52	

Certificate of Analytical Results 473722

Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id: **S5 W 0.0-0.5**
Lab Sample Id: 473722-010
Matrix: Soil
Date Collected: 11.05.13 12.56
Date Received: 11.08.13 17.07

Analytical Method: Pesticides by SW-846 8081B
Tech: RIM
Analyst: KKO
Seq Number: 927540
Date Prep: 11.12.13 12.42
Prep Method: SW3550
% Moisture: 13.89
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U		7.72	0.849	ug/kg	11.13.13 20.10	U	10
4,4-DDE	72-55-9	U		7.72	3.20	ug/kg	11.13.13 20.10	U	10
4,4-DDT	50-29-3	U		7.72	1.54	ug/kg	11.13.13 20.10	U	10
Aldrin	309-00-2	U		7.72	3.47	ug/kg	11.13.13 20.10	U	10
Alpha-BHC	319-84-6	U		7.72	1.74	ug/kg	11.13.13 20.10	U	10
Alpha-Chlordane	5103-71-9	U		7.72	2.08	ug/kg	11.13.13 20.10	U	10
Beta-BHC	319-85-7	U		7.72	1.62	ug/kg	11.13.13 20.10	U	10
Delta-BHC	319-86-8	U		7.72	1.62	ug/kg	11.13.13 20.10	U	10
Dieldrin	60-57-1	U		7.72	2.51	ug/kg	11.13.13 20.10	U	10
Endosulfan I	959-98-8	U		7.72	2.20	ug/kg	11.13.13 20.10	U	10
Endosulfan II	33213-65-9	U		7.72	2.20	ug/kg	11.13.13 20.10	U	10
Endosulfan Sulfate	1031-07-8	U		7.72	2.28	ug/kg	11.13.13 20.10	U	10
Endrin	72-20-8	U		7.72	0.965	ug/kg	11.13.13 20.10	U	10
Endrin Aldehyde	7421-93-4	U		7.72	1.74	ug/kg	11.13.13 20.10	U	10
Endrin Ketone	53494-70-5	U		7.72	2.28	ug/kg	11.13.13 20.10	U	10
Gamma-BHC (Lindane)	58-89-9	U		7.72	2.78	ug/kg	11.13.13 20.10	U	10
Gamma-Chlordane	5103-74-2	U		7.72	2.08	ug/kg	11.13.13 20.10	U	10
Heptachlor	76-44-8	U		7.72	1.35	ug/kg	11.13.13 20.10	U	10
Heptachlor Epoxide	1024-57-3	U		7.72	0.656	ug/kg	11.13.13 20.10	U	10
Methoxychlor	72-43-5	U		7.72	2.20	ug/kg	11.13.13 20.10	U	10
Chlordane	12789-03-6	U		193	19.7	ug/kg	11.13.13 20.10	U	10
Toxaphene	8001-35-2	**389**		193	20.5	ug/kg	11.13.13 20.10		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	32	%	35-135	11.13.13 20.10	**
Decachlorobiphenyl	2051-24-3	32	%	25-143	11.13.13 20.10	

Certificate of Analytical Results 473722

Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id: **S5 W 0.5-1.0**
Lab Sample Id: 473722-011
Matrix: Soil
Date Collected: 11.05.13 13.03
Date Received:11.08.13 17.07

Analytical Method: Pesticides by SW-846 8081B
Tech: RIM
Analyst: KKO
Seq Number: 927540
Date Prep: 11.12.13 12.45
Prep Method: SW3550
% Moisture: 9.73
Basis: Dry Weight
SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	29.5	3.24	ug/kg	11.13.13 20.28	U	40
4,4-DDE	72-55-9	U	29.5	12.2	ug/kg	11.13.13 20.28	U	40
4,4-DDT	50-29-3	U	29.5	5.90	ug/kg	11.13.13 20.28	U	40
Aldrin	309-00-2	U	29.5	13.3	ug/kg	11.13.13 20.28	U	40
Alpha-BHC	319-84-6	U	29.5	6.63	ug/kg	11.13.13 20.28	U	40
Alpha-Chlordane	5103-71-9	U	29.5	7.96	ug/kg	11.13.13 20.28	U	40
Beta-BHC	319-85-7	U	29.5	6.19	ug/kg	11.13.13 20.28	U	40
Delta-BHC	319-86-8	U	29.5	6.19	ug/kg	11.13.13 20.28	U	40
Dieldrin	60-57-1	U	29.5	9.58	ug/kg	11.13.13 20.28	U	40
Endosulfan I	959-98-8	U	29.5	8.40	ug/kg	11.13.13 20.28	U	40
Endosulfan II	33213-65-9	U	29.5	8.40	ug/kg	11.13.13 20.28	U	40
Endosulfan Sulfate	1031-07-8	U	29.5	8.70	ug/kg	11.13.13 20.28	U	40
Endrin	72-20-8	U	29.5	3.69	ug/kg	11.13.13 20.28	U	40
Endrin Aldehyde	7421-93-4	U	29.5	6.63	ug/kg	11.13.13 20.28	U	40
Endrin Ketone	53494-70-5	U	29.5	8.70	ug/kg	11.13.13 20.28	U	40
Gamma-BHC (Lindane)	58-89-9	U	29.5	10.6	ug/kg	11.13.13 20.28	U	40
Gamma-Chlordane	5103-74-2	U	29.5	7.96	ug/kg	11.13.13 20.28	U	40
Heptachlor	76-44-8	U	29.5	5.14	ug/kg	11.13.13 20.28	U	40
Heptachlor Epoxide	1024-57-3	U	29.5	2.51	ug/kg	11.13.13 20.28	U	40
Methoxychlor	72-43-5	U	29.5	8.40	ug/kg	11.13.13 20.28	U	40
Chlordane	12789-03-6	U	737	75.2	ug/kg	11.13.13 20.28	U	40
Toxaphene	8001-35-2	**3310**	737	78.1	ug/kg	11.13.13 20.28		40

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	45	%	35-135	11.13.13 20.28	
Decachlorobiphenyl	2051-24-3	44	%	25-143	11.13.13 20.28	

Certificate of Analytical Results 473722

Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id: **Auger Rinsate** Matrix: Water Date Received:11.08.13 17.07

Lab Sample Id: 473722-012 Date Collected: 11.05.13 16.17

Analytical Method: Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: COR % Moisture:

Analyst: KKO Date Prep: 11.12.13 13.27

Seq Number: 927472 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0200	0.00670	ug/L	11.13.13 13.17	U	1
4,4-DDE	72-55-9	U	0.0200	0.00530	ug/L	11.13.13 13.17	U	1
4,4-DDT	50-29-3	U	0.0200	0.00560	ug/L	11.13.13 13.17	U	1
Aldrin	309-00-2	U	0.0200	0.00500	ug/L	11.13.13 13.17	U	1
Alpha-BHC	319-84-6	U	0.0200	0.00490	ug/L	11.13.13 13.17	U	1
Alpha-Chlordane	5103-71-9	U	0.0200	0.00480	ug/L	11.13.13 13.17	U	1
Beta-BHC	319-85-7	U	0.0200	0.00700	ug/L	11.13.13 13.17	U	1
Delta-BHC	319-86-8	U	0.0200	0.00560	ug/L	11.13.13 13.17	U	1
Dieldrin	60-57-1	U	0.0200	0.00460	ug/L	11.13.13 13.17	U	1
Endosulfan I	959-98-8	U	0.0200	0.00500	ug/L	11.13.13 13.17	U	1
Endosulfan II	33213-65-9	U	0.0200	0.00530	ug/L	11.13.13 13.17	U	1
Endosulfan Sulfate	1031-07-8	U	0.0200	0.00540	ug/L	11.13.13 13.17	U	1
Endrin	72-20-8	U	0.0200	0.00630	ug/L	11.13.13 13.17	U	1
Endrin Aldehyde	7421-93-4	U	0.0200	0.00480	ug/L	11.13.13 13.17	U	1
Endrin Ketone	53494-70-5	U	0.0200	0.00630	ug/L	11.13.13 13.17	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0200	0.00470	ug/L	11.13.13 13.17	U	1
Gamma-Chlordane	5103-74-2	U	0.0200	0.00490	ug/L	11.13.13 13.17	U	1
Heptachlor	76-44-8	U	0.0200	0.00460	ug/L	11.13.13 13.17	U	1
Heptachlor Epoxide	1024-57-3	U	0.0200	0.00870	ug/L	11.13.13 13.17	U	1
Methoxychlor	72-43-5	U	0.0200	0.00550	ug/L	11.13.13 13.17	U	1
Chlordane	12789-03-6	U	0.500	0.0144	ug/L	11.13.13 13.17	U	1
Toxaphene	8001-35-2	U	0.500	0.0685	ug/L	11.13.13 13.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	37	%	18-126	11.13.13 13.17	
Decachlorobiphenyl	2051-24-3	27	%	15-136	11.13.13 13.17	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Environmental International Corporation

GPA-Bainbridge

Analytical Method: **Percent Moisture**
Seq Number: 927380 Matrix: Solid
MB Sample Id: 927380-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Percent Moisture	U	%	11.12.13 15:51	

Analytical Method: **Percent Moisture**
Seq Number: 927380 Matrix: Soil
Parent Sample Id: 473722-001 MD Sample Id: 473722-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	24.9	23.3	7	20	%	11.12.13 15:51	

Analytical Method: **Percent Moisture**
Seq Number: 927380 Matrix: Soil
Parent Sample Id: 473786-005 MD Sample Id: 473786-005 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	14.5	14.3	1	20	%	11.12.13 15:51	

QC Summary 473722

Environmental International Corporation

GPA-Bainbridge

Analytical Method: **Pesticides by SW-846 8081B** Prep Method: SW3510C
Seq Number: 927472 Matrix: Water Date Prep: 11.11.13
MB Sample Id: 646687-1-BLK LCS Sample Id: 646687-1-BKS LCSD Sample Id: 646687-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
4,4-DDD	<0.00670	1.00	0.935	94	1.01	101	11-160	8	25	ug/L	11.13.13 11:48	
4,4-DDE	<0.00530	1.00	0.893	89	0.977	98	15-157	9	25	ug/L	11.13.13 11:48	
4,4-DDT	<0.00560	1.00	1.08	108	1.17	117	15-157	8	25	ug/L	11.13.13 11:48	
Aldrin	<0.00500	1.00	0.790	79	0.875	88	12-154	10	25	ug/L	11.13.13 11:48	
Alpha-BHC	<0.00490	1.00	0.802	80	0.899	90	10-149	11	25	ug/L	11.13.13 11:48	
Alpha-Chlordane	<0.00480	1.00	0.842	84	0.930	93	15-140	10	25	ug/L	11.13.13 11:48	
Beta-BHC	<0.00700	1.00	0.831	83	0.911	91	10-151	9	25	ug/L	11.13.13 11:48	
Delta-BHC	<0.00560	1.00	0.747	75	0.811	81	10-155	8	25	ug/L	11.13.13 11:48	
Dieldrin	<0.00460	1.00	0.858	86	0.941	94	14-156	9	25	ug/L	11.13.13 11:48	
Endosulfan I	<0.00500	1.00	0.829	83	0.907	91	12-155	9	25	ug/L	11.13.13 11:48	
Endosulfan II	<0.00530	1.00	0.881	88	0.954	95	16-158	8	25	ug/L	11.13.13 11:48	
Endosulfan Sulfate	<0.00540	1.00	0.924	92	0.998	100	17-159	8	25	ug/L	11.13.13 11:48	
Endrin	<0.00630	1.00	1.05	105	0.995	100	14-169	5	25	ug/L	11.13.13 11:48	
Endrin Aldehyde	<0.00480	1.00	0.757	76	0.825	83	22-148	9	25	ug/L	11.13.13 11:48	
Endrin Ketone	<0.00630	1.00	0.867	87	0.960	96	28-154	10	25	ug/L	11.13.13 11:48	
Gamma-BHC (Lindane)	<0.00470	1.00	0.825	83	0.923	92	8-157	11	25	ug/L	11.13.13 11:48	
Gamma-Chlordane	<0.00490	1.00	0.848	85	0.935	94	18-141	10	25	ug/L	11.13.13 11:48	
Heptachlor	<0.00460	1.00	0.842	84	0.932	93	10-157	10	25	ug/L	11.13.13 11:48	
Heptachlor Epoxide	<0.00870	1.00	0.816	82	0.899	90	15-155	10	25	ug/L	11.13.13 11:48	
Methoxychlor	<0.00550	1.00	1.06	106	1.12	112	25-161	6	25	ug/L	11.13.13 11:48	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	85		75		83		18-126	%	11.13.13 11:48
Decachlorobiphenyl	91		84		88		15-136	%	11.13.13 11:48

QC Summary 473722

Environmental International Corporation

GPA-Bainbridge

Analytical Method: **Pesticides by SW-846 8081B** Prep Method: SW3550
Seq Number: 927540 Matrix: Solid Date Prep: 11.12.13
MB Sample Id: 646778-1-BLK LCS Sample Id: 646778-1-BKS LCSD Sample Id: 646778-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
4,4-DDD	<0.0733	33.3	40.8	123	42.2	127	20-164	3	25	ug/kg	11.13.13 16:18	
4,4-DDE	<0.276	33.3	39.6	119	40.9	123	29-157	3	25	ug/kg	11.13.13 16:18	
4,4-DDT	<0.133	33.3	48.2	145	50.2	151	13-192	4	25	ug/kg	11.13.13 16:18	
Aldrin	<0.300	33.3	31.2	94	33.3	100	30-152	7	25	ug/kg	11.13.13 16:18	
Alpha-BHC	<0.150	33.3	31.5	95	34.5	104	29-160	9	25	ug/kg	11.13.13 16:18	
Alpha-Chlordane	<0.180	33.3	36.0	108	37.2	112	30-154	3	25	ug/kg	11.13.13 16:18	
Beta-BHC	<0.140	33.3	35.4	106	37.6	113	30-155	6	25	ug/kg	11.13.13 16:18	
Delta-BHC	<0.140	33.3	33.1	99	34.5	104	20-161	4	25	ug/kg	11.13.13 16:18	
Dieldrin	<0.217	33.3	37.0	111	38.4	115	33-153	4	25	ug/kg	11.13.13 16:18	
Endosulfan I	<0.190	33.3	35.3	106	36.7	110	30-151	4	25	ug/kg	11.13.13 16:18	
Endosulfan II	<0.190	33.3	38.8	117	39.5	119	27-153	2	25	ug/kg	11.13.13 16:18	
Endosulfan Sulfate	<0.197	33.3	40.6	122	42.0	126	15-170	3	25	ug/kg	11.13.13 16:18	
Endrin	<0.0833	33.3	53.7	161	54.3	163	25-162	1	25	ug/kg	11.13.13 16:18	H
Endrin Aldehyde	<0.150	33.3	32.4	97	32.7	98	49-117	1	25	ug/kg	11.13.13 16:18	
Endrin Ketone	<0.197	33.3	35.1	105	36.8	111	15-168	5	25	ug/kg	11.13.13 16:18	
Gamma-BHC (Lindane)	<0.240	33.3	33.1	99	35.9	108	30-158	8	25	ug/kg	11.13.13 16:18	
Gamma-Chlordane	<0.180	33.3	36.0	108	37.7	113	30-154	5	25	ug/kg	11.13.13 16:18	
Heptachlor	<0.116	33.3	33.8	102	35.8	108	29-163	6	25	ug/kg	11.13.13 16:18	
Heptachlor Epoxide	<0.0566	33.3	34.6	104	36.2	109	30-150	5	25	ug/kg	11.13.13 16:18	
Methoxychlor	<0.190	33.3	44.5	134	46.7	140	33-174	5	25	ug/kg	11.13.13 16:18	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	40		41		45		35-135	%	11.13.13 16:18
Decachlorobiphenyl	47		51		53		25-143	%	11.13.13 16:18

QC Summary 473722

Environmental International Corporation

GPA-Bainbridge

Analytical Method: **Pesticides by SW-846 8081B** Prep Method: SW3550

Seq Number: 927540 Matrix: Soil Date Prep: 11.12.13

Parent Sample Id: 473722-006 MS Sample Id: 473722-006 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
4,4-DDD	<0.881	40.0	54.3	136	20-164	ug/kg	11.13.13 18:40	
4,4-DDE	<3.32	40.0	60.6	152	29-157	ug/kg	11.13.13 18:40	
4,4-DDT	<1.60	40.0	66.2	166	13-192	ug/kg	11.13.13 18:40	
Aldrin	<3.60	40.0	44.8	112	30-152	ug/kg	11.13.13 18:40	
Alpha-BHC	<1.80	40.0	39.2	98	29-160	ug/kg	11.13.13 18:40	
Alpha-Chlordane	<2.16	40.0	50.0	125	30-154	ug/kg	11.13.13 18:40	
Beta-BHC	<1.68	40.0	50.3	126	30-155	ug/kg	11.13.13 18:40	
Delta-BHC	<1.68	40.0	40.8	102	20-161	ug/kg	11.13.13 18:40	
Dieldrin	<2.60	40.0	51.3	128	33-153	ug/kg	11.13.13 18:40	
Endosulfan I	<2.28	40.0	50.3	126	30-151	ug/kg	11.13.13 18:40	
Endosulfan II	<2.28	40.0	52.3	131	27-153	ug/kg	11.13.13 18:40	
Endosulfan Sulfate	<2.36	40.0	52.3	131	15-170	ug/kg	11.13.13 18:40	
Endrin	<1.00	40.0	68.4	171	25-162	ug/kg	11.13.13 18:40	X
Endrin Aldehyde	<1.80	40.0	42.4	106	49-117	ug/kg	11.13.13 18:40	
Endrin Ketone	<2.36	40.0	46.3	116	15-168	ug/kg	11.13.13 18:40	
Gamma-BHC (Lindane)	<2.88	40.0	42.6	107	30-158	ug/kg	11.13.13 18:40	
Gamma-Chlordane	<2.16	40.0	50.1	125	30-154	ug/kg	11.13.13 18:40	
Heptachlor	<1.40	40.0	41.8	105	29-163	ug/kg	11.13.13 18:40	
Heptachlor Epoxide	<0.681	40.0	50.5	126	30-150	ug/kg	11.13.13 18:40	
Methoxychlor	<2.28	40.0	54.5	136	33-174	ug/kg	11.13.13 18:40	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	45		35-135	%	11.13.13 18:40
Decachlorobiphenyl	58		25-143	%	11.13.13 18:40

XENCO Laboratories

☐ 3231 NW 7th Ave, Boca Raton, Fl 33431 561-447-7373
☐ 2505 Falkenburg Rd, Tampa, Fl 33569 813-620-2000
☒ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800
☐ Philadephia/New Jersey 610-955-5649
☐ South Carolina 803-543-8099 ☐ Other

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 266456 Page 1 of 2

Company-City: EIC Alpharetta	Phone: 770-777-7100
Proj Name-Location: GPA-Bainbridge ☒ Previously done at XENCO	Project ID: 400007-4.4
Proj State: AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, TX, UT Other	Proj. Manager (PM): Alan Sanders
e-Mail Results to ☐ PM or asanders@eicusa.com	Fax No:
Invoice to ☐ Accounting ☒ Inc. Invoice with Final Report ☐ Invoice must have a P.O Bill to:	
Quote/Pricing:	P.O No: ☐ Call for P.O.
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:	
Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)	
Sampler Name: A. Patrick Grayson Signature: A. Patrick Grayson	

Lab Only: WO# 473722

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific.
It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

#	Sample ID	Sampling Date	Time	Depth (ft/in)	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs	VOCs PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHs	FL PRO DRO GRO MA EPH MA VPH	SVOCs: Full-List DW BN&AE TCL PP Appdx-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	3550/3660B	8081B	TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Remarks: Sample Clean-ups are pre-approved as needed	#
1	S10.0-0.5	11/5/2013	10:43		S		X	1	4	C	C										X	X					1
2	S10.5-1.0	11/5/2013	10:55		S		X	1	4	C	C										X	X					2
3	S25 0.0-0.5	11/5/2013	11:15		S		X	1	4	C	C										X	X				TBD if analyzed	3
4	S25A 0.0-0.5	11/5/2013	11:46		S		X	1	4	C	C										X	X					4
5	S25A 0.5-1.0	11/5/2013	11:56		S		X	1	4	C	C										X	X					5
6	S3N 0.0-0.5	11/5/2013	12:07		S		X	1	4	C	C										X	X					6
7	S3N 0.5-1.0	11/5/2013	12:18		S		X	1	4	C	C										X	X					7
8	S4E 0.0-0.5	11/5/2013	12:32		S		X	1	4	C	C										X	X					8
9	S4E 0.5-1.0	11/5/2013	12:43		S		X	1	4	C	C										X	X					9
10	S5W 0.0-0.5	11/5/2013	12:56		S		X	1	4	C	C										X	X					10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1)	11/8/13 17:17	2) Dario Lagmay	11-8-13 17:17
3)		4)	
5)		6)	

Total Containers per COC: Cooler Temp: 2.4 °C

Upon signings this COC you accept XENCO terms and Conditions unless otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved.

Preservatives: Various (**V**), HCl pH<2 (**H**), H2SO4 pH<2 (**S**), HNO3 pH<2 (**N**), Asbc Acid&NaOH (**A**), ZnAc&NaOH (**Z**), (Cool,<4C) (**C**), None (**NA**), See Label (**L**), Other (**O**) _____

Cont. Size: 4oz (**4**), 8oz (**8**), 32oz (**32**), 40ml VOA (**40**), 1L (**1**), 500ml (**5**), Tedlar Bag (**B**), Various (V), Other _____ **Cont. Type:** Glass Amb (**A**), Glass Clear (**C**), Plastic (**P**), Various (**V**)

Matrix: Air (**A**), Product (**P**), Solid(**S**), Water (**W**), Liquid (**L**)

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Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previoiusly negotiated under a fully executed client contract.

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☒ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800
☐ Philadephia/New Jersey 610-955-5649
☐ South Carolina 803-543-8099 ☐ Other

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 266502 Page 2 of 2

Company-City EIC Alpharetta **Phone** 770-772-7100

Lab Only: WO # 473722

Proj Name-Location ☒ Previously done at XENCO — GPA-Bainbridge **Project ID** 400007-4.4

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Proj State: AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, TX, UT Other **Proj. Manager (PM)** Alan Sanders

e-Mail Results to ☐ PM or asanders@eicusa.com **Fax No:**

Invoice to ☐ Accounting ☒ Inc. Invoice with Final Report ☐ Invoice must have a P.O Bill to:

Quote/Pricing: **P.O No:** ☐ Call for P.O.

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA

QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:

Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)

Sampler Name A. Patrick Grayson Signature A. Patrick Grayson

	Sample ID	Sampling Date	Time	Depth ft In m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs	VOCs PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHs	FL PRO DRO GRO MA EPH MA VPH	SVOCs: Full-List DW BN&AE TCL PP Appdx-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	3550/3660B	8081B										TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Remarks: Sample Clean-ups are pre-approved as needed	Addn: Date Rcv by: From:	
1	SSW0.5-1.0	11/5/2013	13:03		S		X	1	4	C	C										X	X														1
2	Auger Rinsate	11/5/2013	16:17		W		X	1	1	A	C										X	X														2
3	Trip Blank				W			2	40	C	C										X	X														3
4																																				4
5																																				5
6																																				6
7																																				7
8																																				8
9																																				9
10																																				10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1)	11/8/13 17:37	2)	11-8-13 17:07
3)		4)	
5)		6)	

Total Containers per COC: Cooler Temp: 2.4 °C

Upon signings this COC you accept XENCO terms and Conditions unless otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved.

Preservatives: Various (**V**), HCl pH<2 (**H**), H2SO4 pH<2 (**S**), HNO3 pH<2 (**N**), Asbc Acid&NaOH (**A**), ZnAc&NaOH (**Z**), (Cool,<4C) (**C**), None (**NA**), See Label (**L**), Other (**O**) _____

Cont. Size: 4oz (**4**), 8oz (**8**), 32oz (**32**), 40ml VOA (**40**), 1L (**1**), 500ml (**5**), Tedlar Bag (**B**), Various (V), Other _____ **Cont. Type:** Glass Amb (**A**), Glass Clear (**C**), Plastic (**P**), Various (**V**)

Matrix: Air (**A**), Product (**P**), Solid(**S**), Water (**W**), Liquid (**L**)

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Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previoiusly negotiated under a fully executed client contract.

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Florida Testing Services, LLC

Client: Environmental International Corporation

Date/ Time Received: 11/08/2013 05:07:00 PM

Work Order #: 473722

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : #61

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2.4	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6 *Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Sample instructions complete on Chain of Custody?	**Yes**	
#9 Any missing/extra samples?	**No**	Volatile Trip Blank received but there no samples for volatile analysis. Trip Blank placed on hold.
#10 Chain of Custody signed when relinquished/ received?	**Yes**	
#11 Chain of Custody agrees with sample label(s)?	**No**	
#12 Container label(s) legible and intact?	**Yes**	
#13 Sample matrix/ properties agree with Chain of Custody?	**Yes**	
#14 Samples in proper container/ bottle?	**Yes**	
#15 Samples properly preserved?	**Yes**	
#16 Sample container(s) intact?	**Yes**	
#17 Sufficient sample amount for indicated test(s)?	**Yes**	
#18 All samples received within hold time?	**Yes**	
#19 Subcontract of sample(s)?	**No**	
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	**Yes**	
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	**N/A**	
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:

Checklist completed by: Dario Lagunas Date: 11/09/2013

Checklist reviewed by: Eben Buchanan Date: 11/11/2013

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

THIRD VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT C
EIC WELL PURGING FIELD LOGS

ENVIRONMENTAL INTERNATIONAL CORPORATION

PAGE 1 OF 1

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-1

DATE: 12/3/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny with partly cloudy ~72°F No wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 19.50 FT. to 29.50 FT.

INITIAL WATER LEVEL (BTOC): 27.22 FT. | TIME: 9:10 | BTOC WELL SCREEN INTERVAL: 22.01 FT. to 32.01 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 32.51 FT. | MEASURED TOTAL WELL DEPTH (BTOC): FT. | HEIGHT OF STICK-UP: 2.51 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [ ] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY

[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8081 B / 9060 A / 6010 / 9056 A / RSK -175

LABORATORY PERFORMING ANALYSIS: Xenco | WATER ANALYZER MODEL: Horiba U-52 | SERIAL #: UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT)	REMARKS (COLOR, ODOR, ETC.)
9:19	0	17.41	3.46	354	0.685	0.0	5.74	27.25	first pull is clear
9:24	1100	18:21	3.45	356	0.710	1.3	5.03	27.24	still clear in cylinder
9:29	2100	18.45	3.47	358	0.715	2.2	4.58	27.24	

COMMENTS:

SAMPLE COLLECTION TIME: 9:31

PREPARED BY: Will Grant

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant.

Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	~~32~~ 33.5
Initial tubing depth (ft.) BTOC	30
Final tubing depth (ft.) BTOC	30
Initial pump speed	7.07
Time pump speed was initialized	9:15
Pump speed at flow into cylinder	7.07
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	9:29								
Cummulative Volume (mL)	2100								

Additional remarks: _____

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-1A

DATE: 12/3/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Scattered clouds ~72°F 0 mph wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [ ] 2 [X] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 23.00 FT. to 33.00 FT.

INITIAL WATER LEVEL (BTOC): 27.36 FT. | TIME: 9:59 | BTOC WELL SCREEN INTERVAL: 25.85 FT. to 35.85 FT.

MEASURED TOTAL WELL DEPTH (BGS): 39.85 FT. | MEASURED TOTAL WELL DEPTH (BTOC) FT. | HEIGHT OF STICK-UP: 2.85 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [ ] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY

[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8081 B / 9060 A / 6010 / 9056 A / RSK -175

LABORATORY PERFORMING ANALYSIS: Xenco | WATER ANALYZER MODEL: Horiba U-52 | SERIAL #: UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT)	REMARKS (COLOR, ODOR, ETC.)
10:12	0	18.42	3.7	239	0.952	4.6	3.8	27.39	first pull clear
10:17	1020	18.84	3.46	325	0.926	4.7	2.6	27.37	clear in cylinder
10:22	1980	18.84	3.46	334	0.937	3.8	2.59	27.36	
10:27	2830	19.01	3.45	340	0.916	1.9	2.46	27.37	

COMMENTS:

SAMPLE COLLECTION TIME: 10:29

PREPARED BY: Patrick Gibgson

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	35.5
Initial tubing depth (ft.) BTOC	32
Final tubing depth (ft.) BTOC	32
Initial pump speed	6.96
Time pump speed was initialized	10:07
Pump speed at flow into cylinder	6.96
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	10:22								
Cummulative Volume (mL)	2000								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-2

DATE: 12/4/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: foggy, ~66°F 0 mph wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 13.00 FT. to 23.00 FT.

INITIAL WATER LEVEL (BTOC): 20.97 FT. | TIME: 7:04 | BTOC WELL SCREEN INTERVAL: 15.85 FT. to 25.85 FT.

MEASURED TOTAL WELL DEPTH (BGS): 27.85 FT. | MEASURED TOTAL WELL DEPTH (BTOC) FT. | HEIGHT OF STICK-UP: 2.85 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [ ] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY

[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8081 B / 9060 A / 6010 / 9056 A / RSK -175

LABORATORY PERFORMING ANALYSIS: Xenco | WATER ANALYZER MODEL: Horiba U-52 | SERIAL #: UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT)	REMARKS (COLOR, ODOR, ETC.)
7:21	0	18.79	4.9	244	0.063	0.0	4.81	21.1	first pull is clear
7:26	1480	18.86	4.82	280	0.064	0.0	2.41	21.1	
7:31	2720	18.86	4.47	289	0.071	0.0	1.76	21.1	
7:36	4020	18.84	4.46	294	0.076	0.0	1.37	21.1	

COMMENTS:

SAMPLE COLLECTION TIME: 7:37

PREPARED BY: Will Grant

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant.

Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	26.5
Initial tubing depth (ft.) BTOC	24
Final tubing depth (ft.) BTOC	24
Initial pump speed	7.02
Time pump speed was initialized	7:17
Pump speed at flow into cylinder	7.02
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	7:29								
Cummulative Volume (mL)	2200								

Additional remarks: clear in cylinder

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-3

DATE: 12/4/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Slightly foggy/overcast ~72°F very humid No wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 15.00 FT. to 25.00 FT.

INITIAL WATER LEVEL (BTOC): 19.34 FT. | TIME: 8:26 | BTOC WELL SCREEN INTERVAL: 17.83 FT. to 27.83 FT.

MEASURED TOTAL WELL DEPTH (BGS): 25.0 FT. | MEASURED TOTAL WELL DEPTH (BTOC) FT. | HEIGHT OF STICK-UP: 2.83 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [ ] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY

[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8081 B / 9060 A / 6010 / 9056 A / RSK -175

LABORATORY PERFORMING ANALYSIS: Xenco | WATER ANALYZER MODEL: Horiba U-52 | SERIAL #: UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT)	REMARKS (COLOR, ODOR, ETC.)
8:37	0	18.28	4.96	274	0.059	0.0	6.95	19.38	first pull clear
8:42	1440	18.40	4.97	277	0.064	0.0	6.71	19.37	clear in cylinder
8:47	2760	18.49	5.05	275	0.074	0.0	6.27	19.37	

COMMENTS:

SAMPLE COLLECTION TIME: 8:49

PREPARED BY: Patrick Crayson

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant.

Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	28
Initial tubing depth (ft.) BTOC	24
Final tubing depth (ft.) BTOC	24
Initial pump speed	7.06
Time pump speed was initialized	8:35
Pump speed at flow into cylinder	7.06
Started new roll of tubing at	
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	8:45								
Cummulative Volume (mL)	2060								

Additional remarks: Gauged from black mark on top

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-4U

DATE: 12/3/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny + partly cloudy ~73°F 0 mph wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 16.00 FT. to 31.00 FT.

INITIAL WATER LEVEL (BTOC): 25.53 FT. | TIME: 10:58 | BTOC WELL SCREEN INTERVAL: 18.05 FT. to 33.05 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 33.05 FT. | MEASURED TOTAL WELL DEPTH (BTOC) FT. | HEIGHT OF STICK-UP: 2.05 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [ ] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY

[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8081 B / 9060 A / 6010 / 9056 A / RSK -175

LABORATORY PERFORMING ANALYSIS: Xenco | WATER ANALYZER MODEL: Horiba U-52 | SERIAL #: UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT)	REMARKS (COLOR, ODOR, ETC.)
11:14	0	19.65	4.7	185	0.246	2.9	6.36	25.54	first pull is clear
11:19	1240	19.72	3.96	291	0.249	2.7	5.03	25.54	still clear
11:24	2480	19.74	3.94	303	0.246	0.0	4.73	25.54	still clear
11:29	3400	19.75	3.94	309	0.243	0.0	4.63	25.54	still clear

COMMENTS:

SAMPLE COLLECTION TIME: 11:31

PREPARED BY: Will Grant

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	32
Initial tubing depth (ft.) BTOC	30
Final tubing depth (ft.) BTOC	30
Initial pump speed	7.07
Time pump speed was initialized	11:10
Pump speed at flow into cylinder	7.07
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	11:22								
Cummulative Volume (mL)	2000								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-5A

DATE: 12/5/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: cloudy/overcast ~78°F < 5mph wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 16.50 FT. to 26.50 FT.

INITIAL WATER LEVEL (BTOC): 18.96 FT. | TIME: 7:46 | BTOC WELL SCREEN INTERVAL: 16.20 FT. to 26.20 FT.

MEASURED TOTAL WELL DEPTH (BGS): 27.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) FT. | FLUSH-TO-GRADE ~0.3 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [ ] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY

[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8081 B / 9060 A / 6010 / 9056 A / RSK -175

LABORATORY PERFORMING ANALYSIS: Xenco | WATER ANALYZER MODEL: Horiba U-52 | SERIAL #: UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT)	REMARKS (COLOR, ODOR, ETC.)
8:45	0	22.97	4.32	270	0.422	502	3.32	~~19.00~~	first pull is tan in color
8:50	1220	23.46	4.03	292	0.605	204	1.81	19.01	
8:55	2420	23.60	4.01	296	0.642	132	1.44	19.00	
9:00	3620	23.68	4.00	298	0.660	85.1	1.27	19.0	orange in cylinder
9:05	4820	23.72	4.00	300	0.665	59.5	1.25	19.0	
9:10	6020	23.73	4.00	301	0.670	48.1	1.22	19.0	
9:15	7180	23.77	3.99	302	0.673	38.8	1.21	19.0	

COMMENTS:

SAMPLE COLLECTION TIME: 9:16

PREPARED BY: Carl'll Grant

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	25
Initial tubing depth (ft.) BTOC	23
Final tubing depth (ft.) BTOC	23
Initial pump speed	~~8.03~~ 7.03
Time pump speed was initialized	~~8:03~~ 8:39
Pump speed at flow into cylinder	8.03
Started new roll of tubing at	—
Three well volume (mL)	←

2,000 mL volume poured into bucket:

Time	8:53	9:01	9:10						
Cummulative Volume (mL)	2000	4000	6000						

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-5D

DATE: 12/5/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Overcast; dark sky ~75°F 0-5 MPH S wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 15.00 FT. to 25.00 FT.

INITIAL WATER LEVEL (BTOC): 18.36 FT. | TIME: 7:20 | BTOC WELL SCREEN INTERVAL: 14.80 FT. to 24.80 FT.

MEASURED TOTAL WELL DEPTH (BGS): 25.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) FT. | FLUSH-TO-GRADE ~0.2 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [ ] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY

[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8081 B / 9060 A / 6010 / 9056 A / RSK -175

LABORATORY PERFORMING ANALYSIS: Xenco | WATER ANALYZER MODEL: Horiba U-52 | SERIAL #: UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT)	REMARKS (COLOR, ODOR, ETC.)
7:29	0	22.33	6.09	249	2.05	20	1.5	18.69	first pull clear
7:34	1240	23.57	5.76	221	1.85	11.5	0.52	18.69	Few small black
7:39	2520	23.91	5.55	218	1.77	3.9	0.4	18.69	particles in cylinder
7:44	3700	24.04	5.5	216	1.81	0.0	0.34	18.69	
7:49	5080	24.09	5.38	218	1.79	0.0	0.32	18.69	
7:54	6780	24.11	5.27	222	1.75	0.0	0.32	18.66	
7:59	7560	24.15	5.2	226	1.72	0.0	0.33	18.66	
8:04	8700	24.21	5.13	229	1.69	0.0	0.32	18.62	
8:11	10320	24.23	4.99	235	1.63	0.0	0.31	18.62	
8:16	11400	24.23	4.9	240	1.59	0.0	0.3	18.62	
8:21	12760	24.29	4.82	244	1.54	0.0	0.30	18.62	

1620
640

COMMENTS:

SAMPLE COLLECTION TIME: 8:22

PREPARED BY: Patrick Gragson

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant.

Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	24
Initial tubing depth (ft.) BTOC	22
Final tubing depth (ft.) BTOC	22
Initial pump speed	7.05
Time pump speed was initialized	7:27
Pump speed at flow into cylinder	7.05
Started new roll of tubing at	—
Three well volume (mL)	12505

Note: add Volume/ft of well to field forms

Samples collected after 3 well volumes ~~had~~ had been purged

2,000 mL volume poured into bucket:

Time	7:37	7:47	7:55	8:04	8:12	8:21			
Cummulative Volume (mL)	2000	~~2600~~ 4600	6600	8700	10760	12760			

Additional remarks: Some black particles in sample bottles

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-~~5B~~ 6

DATE: 12/5/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Partly cloudy, sunny ~78°F 0 mph wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 47.00 FT. to 52.00 FT.

INITIAL WATER LEVEL (BTOC): 24.44 FT. | TIME: 10:53 | BTOC WELL SCREEN INTERVAL: 46.80 FT. to 51.80 FT.

MEASURED TOTAL WELL DEPTH (BGS): 52.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) FT. | FLUSH-TO-GRADE ~0.2 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [ ] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY

[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8081 B / 9060 A / 6010 / 9056 A / RSK -175

LABORATORY PERFORMING ANALYSIS: Xenco | WATER ANALYZER MODEL: Horiba U-52 | SERIAL #: UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT) 25.16	REMARKS (COLOR, ODOR, ETC.)
11:59	0	23.87	5.93	-4	1.33	90.7	1.65	~~24.44~~	first pull clear
12:04	1080	22.97	5.52	39	1.42	77.2	0.5	25.8	fan in cylinder
12:09	2200	22.58	5.51	43	1.45	58.	0.4	26.1	
12:14	~~3~~3260	22.57	5.58	41	1.52	43	0.35	26.21	some bubbles coming up
12:19	4280	22.47	5.59	42	1.58	43	0.32	26.25	tube
12:24	5360	22.58	5.55	47	1.62	31.7	0.36	26.22	
12:29	6320	22.56	5.51	50	1.65	19	0.39	26.22	

1080

COMMENTS:

SAMPLE COLLECTION TIME: 12:33

PREPARED BY: Patrick Grayson

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant.

Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	51
Initial tubing depth (ft.) BTOC	49
Final tubing depth (ft.) BTOC	49
Initial pump speed	7.05
Time pump speed was initialized	11:56
Pump speed at flow into cylinder	7.05
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	12:08	12:18	12:29						
Cummulative Volume (mL)	2000	~~2~~280 4	6280						

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

PAGE 1 OF 1

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-7

DATE: 12/3/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: cloudy ~~rain~~ 73°F

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 15.00 FT. to 26.00 FT.

INITIAL WATER LEVEL (BTOC): ~~10~~ 19.91 FT. | TIME: ~~11~~ 13:09 | BTOC WELL SCREEN INTERVAL: 14.50 FT. to 25.50 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 22.14 ~~2200~~ FT. | MEASURED TOTAL WELL DEPTH (BTOC) FT. | FLUSH-TO-GRADE 0.5 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [ ] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY

[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8081 B / 9060 A / 6010 / 9056 A / RSK -175

LABORATORY PERFORMING ANALYSIS: Xenco | WATER ANALYZER MODEL: Horiba U-52 | SERIAL #: UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT)	REMARKS (COLOR, ODOR, ETC.)
13:27	0	22.51	4.06	271	0.667	174	3.04	19.97	
13:32	740	22.84	3.97	288	0.687	86.0	1.92	19.97	
13:37	1480	22.93	3.92	293	0.699	48.2	1.64	19.97	
13:44	2320	22.94	3.84	298	0.710	9.6	1.48	19.97	
13:49	2860	22.96	3.82	301	0.715	3.3	1.55	19.97	

COMMENTS:

SAMPLE COLLECTION TIME: ~~1:51~~ 13:51

PREPARED BY: Will Grant

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant.
Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	25
Initial tubing depth (ft.) BTOC	~~22~~ 21
Final tubing depth (ft.) BTOC	21
Initial pump speed	5.05
Time pump speed was initialized	13:23
Pump speed at flow into cylinder	5.05
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	13:42								
Cummulative Volume (mL)	2000								

Additional remarks: first pull is dirty. tried using 23 ft of tubing and hit bottom. didn't pump, remarked at 21ft + began pumping. water is brown tinted with organic matter floating in it.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

DATE: 12/5/2013	PROJECT NAME: GPA Bainbridge	WELL/SAMPLE NO: MW-8	
WEATHER CONDITIONS: Overcast ~71°F 0-5 mph S wind		PROJECT NO: 400007 - 4.5	
SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER			
WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER		BGS WELL SCREEN INTERVAL: 12.00 FT. to 23.00 FT.	
INITIAL WATER LEVEL (BTOC): 15.85 FT. TIME: 9:40		BTOC WELL SCREEN INTERVAL: 11.70 FT. to 22.70 FT.	
MEASURED TOTAL WELL DEPTH (BGS): 23.00 FT.	MEASURED TOTAL WELL DEPTH (BTOC) FT.	FLUSH-TO-GRADE ~0.3 FT.	
PURGING DEVICE: Pegasus Alexis Peristaltic Pump	[ ] DEDICATED [ ] DISPOSABLE	[ ] DECONTAMINATED	
SAMPLING DEVICE: 1/4" Teflon lined tubing	[ ] DEDICATED [X] DISPOSABLE	[ ] DECONTAMINATED	
EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY			
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE			
CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED			
ANALYTICAL PARAMETERS: 8081 B / 9060 A / 6010 / 9056 A / RSK -175			
LABORATORY PERFORMING ANALYSIS: Xenco	WATER ANALYZER MODEL: Horiba U-52	SERIAL #: UDRU5DA9	

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT) 15.85	REMARKS (COLOR, ODOR, ETC.)
9:46	0	22.98	3.96	307	1.15	0.0	1.89	~~17.85~~	first pull clear
9:51	1260	23.83	3.91	314	0.964	0.0	0.65	15.96	
9:56	2500	24.1	3.93	314	0.715	0.0	0.93	15.86	
10:01	3800	24.2	3.95	317	0.660	0.0	~~0~~ 1.27	15.97	
10:06	5060	24.26	3.96	320	0.647	0.0	1.33	15.87	
10:11	6400	24.28	3.96	322	0.637	0.0	1.31	15.87	

COMMENTS:

SAMPLE COLLECTION TIME: 10:13

PREPARED BY: Patrick Gragson

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	21
Initial tubing depth (ft.) BTOC	19.5
Final tubing depth (ft.) BTOC	19.5
Initial pump speed	7.04
Time pump speed was initialized	9:45
Pump speed at flow into cylinder	7.04
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	9:54	10:03	10:11						
Cummulative Volume (mL)	2200	4400	6400						

Additional remarks: 1" of water on top of TOC inside well - ambt. Bailed before well cap removed.

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-10

DATE: 12/4/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: cloudy + drizzling ~50°F <5 mph wind SW

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 20.00 FT. to 30.00 FT.

INITIAL WATER LEVEL (BTOC): 21.85 FT. | TIME: 15:55 | BTOC WELL SCREEN INTERVAL: 20.10 FT. to 30.10 FT.

MEASURED TOTAL WELL DEPTH (BGS): 30.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) FT. | FLUSH-TO-GRADE +0.1 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [ ] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY

[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8081 B / 9060 A / 6010 / 9056 A / RSK -175

LABORATORY PERFORMING ANALYSIS: Xenco | WATER ANALYZER MODEL: Horiba U-52 | SERIAL #: UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT)	REMARKS (COLOR, ODOR, ETC.)
16:04	0	21.8	3.81	318	0.882	0.0	6.86	22.06	first pull clear
16:09	1360	22.41	3.78	316	0.914	~~1.83~~ 0.0	1.83	22.22	
16:14	2460	22.45	3.78	316	0.940	0.0	1.06	~~23.52~~ 22.32	22.32
16:19	3720	22.45	3.77	317	0.948	0.0	0.86	22.38	
									clear in cylinder

COMMENTS:

SAMPLE COLLECTION TIME: ~~16:18~~ 16:20

PREPARED BY: Patrick Grayson

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	28
Initial tubing depth (ft.) BTOC	26
Final tubing depth (ft.) BTOC	26
Initial pump speed	7.04
Time pump speed was initialized	16:01
Pump speed at flow into cylinder	7.04
Started new roll of tubing at	
Three well volume (mL)	

Duplicate sample set collected at 16:30

2,000 mL volume poured into bucket:

Time	16:14								
Cummulative Volume (mL)	~~2660~~ 2460								

Additional remarks:

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WELL PURGING AND SAMPLING DATA LOG

12/3/2013

WELL/SAMPLE NO: MW-11

DATE: ~~8/3/2013~~ | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: ~65°F no wind high humidity

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 17.00 FT. to 27.00 FT.

INITIAL WATER LEVEL (BTOC): 22.77 FT. | TIME: 7:13 | BTOC WELL SCREEN INTERVAL: 16.70 FT. to 26.70 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 30.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) FT. | FLUSH-TO-GRADE ~0.3 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [ ] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY

[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8081 B / 9060 A / 6010 / 9056 A / RSK -175

LABORATORY PERFORMING ANALYSIS: Xenco | WATER ANALYZER MODEL: Horiba U-52 | SERIAL #: UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT)	REMARKS (COLOR, ODOR, ETC.)
7:33	Ø	19.49	3.90	280	0.283	0.0	5.31	22.78	first pull clear
7:38	~~1800~~ 1180 mL	19.55	3.74	327	0.227	12.5	4.79	22.8	clear in cylinder
7:48	3220	19.47	3.73	336	0.209	6.6	6.20	22.79	
7:53	4400	19.38	3.73	336	0.207	0	4.6	22.81	
7:58	5440	19.29	3.73	337	0.205	0	4.38	22.8	

COMMENTS:

SAMPLE COLLECTION TIME: 7:59

PREPARED BY: Patrick Gorgeon

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant.
Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	27
Initial tubing depth (ft.) BTOC	25
Final tubing depth (ft.) BTOC	25
Initial pump speed	7.01
Time pump speed was initialized	7:30
Pump speed at flow into cylinder	7.01
Started new roll of tubing at	—
Three well volume (mL)	—

Horiba battery died @ 7:40, battery replaced and parameter monitoring continued at 7:48

2,000 mL volume poured into bucket:

Time	7:42	7:51							
Cummulative Volume (mL)	2000	4000							

Additional remarks:

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WELL PURGING AND SAMPLING DATA LOG

DATE: 12/4/2013	PROJECT NAME: GPA Bainbridge
WELL/SAMPLE NO: MW-12	PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Partly Overcast w 76°F 0-5 mPH S wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER

BGS WELL SCREEN INTERVAL: 12.00 FT. to 22.00 FT.

INITIAL WATER LEVEL (BTOC): 16.7 FT. TIME: 11:07

BTOC WELL SCREEN INTERVAL: 11.75 FT. to 21.75 FT.

MEASURED TOTAL WELL DEPTH (BGS): 22.00 FT. MEASURED TOTAL WELL DEPTH (BTOC) FT. FLUSH-TO-GRADE ~0.25 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [ ] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY

[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8081 B / 9060 A / 6010 / 9056 A / RSK -175

LABORATORY PERFORMING ANALYSIS: Xenco WATER ANALYZER MODEL: Horiba U-52 SERIAL #: UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT)	REMARKS (COLOR, ODOR, ETC.)
11:18	600	22.41	6.88	65	0.749	0.0	2.41	16.95	First pull clear
11:23	1660	23.17	6.87	56	0.753	0.0	1.27	16.95	
11:28	2920	23.62	6.89	51	0.758	0.0	0.82	16.95	

COMMENTS:

SAMPLE COLLECTION TIME: 11:30

PREPARED BY: Patrick Gragson

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	21
Initial tubing depth (ft.) BTOC	19
Final tubing depth (ft.) BTOC	19
Initial pump speed	7.04
Time pump speed was initialized	11:14
Pump speed at flow into cylinder	7.04
Started new roll of tubing at	
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	11:24								
Cummulative Volume (mL)	2400								

Additional remarks: ~1" of standing water in well vault, water is not over TOC

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-13

DATE: 12/4/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: sunny, overcast ~~~ 75°F no wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 12.00 FT. to 22.00 FT.

INITIAL WATER LEVEL (BTOC): FT. | TIME: | BTOC WELL SCREEN INTERVAL: 11.70 FT. to 21.70 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 16.57 FT. | MEASURED TOTAL WELL DEPTH (BTOC) FT. | FLUSH-TO-GRADE ~0.3 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [ ] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY

[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8081 B / 9060 A / 6010 / 9056 A / RSK -175

LABORATORY PERFORMING ANALYSIS: Xenco | WATER ANALYZER MODEL: Horiba U-52 | SERIAL #: UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT)	REMARKS (COLOR, ODOR, ETC.)

COMMENTS:

SAMPLE COLLECTION TIME:

PREPARED BY: Will Grant

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant.

Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	
Initial tubing depth (ft.) BTOC	
Final tubing depth (ft.) BTOC	
Initial pump speed	
Time pump speed was initialized	
Pump speed at flow into cylinder	
Started new roll of tubing at	
Three well volume (mL)	

Well is dry. No sample taken

2,000 mL volume poured into bucket:

Time									
Cummulative Volume (mL)									

Additional remarks:

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-14

DATE: 12/5/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: cloudy/forecast ~78°F no wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 67.00 FT. to 72.00 FT.

INITIAL WATER LEVEL (BTOC): 24.16 FT. | TIME: 10:35 | BTOC WELL SCREEN INTERVAL: 66.85 FT. to 71.85 FT.

MEASURED TOTAL WELL DEPTH (BGS): 72.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) FT. | FLUSH-TO-GRADE ~0.15 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [ ] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY

[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8081 B / 9060 A / 6010 / 9056 A / RSK -175

LABORATORY PERFORMING ANALYSIS: Xenco | WATER ANALYZER MODEL: Horiba U-52 | SERIAL #: UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT)	REMARKS (COLOR, ODOR, ETC.)
10:49	0	22.64	6.75	137	0.275	42.1	1.92	24.93	first pull is clear
10:54	1340	22.19	7.89	38	0.304	41.1	0.57	25.5	
10:59	3340	21.93	7.72	-55	0.296	39.9	0.59	25.62	
11:04	3760	21.86	7.51	-98	0.289	41.2	1.36	25.70	
11:09	4940	21.86	7.62	-129	0.295	37.8	1.41	25.67	
11:14	6100	21.85	7.44	-133	0.280	35.2	1.28	25.67	
11:19	7360	21.87	7.31	-130	0.272	28.6	1.09	25.67	
11:26	8800	21.99	7.17	-123	0.260	0.0	0.88	25.67	
11:35	10800	22.07	7.09	-117	0.250	0.0	0.70	25.67	
11:40	11920	22.11	7.06	-115	0.247	0.0	0.64	25.67	

COMMENTS:

SAMPLE COLLECTION TIME: 11:41

PREPARED BY: will Grant

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant.

Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	76
Initial tubing depth (ft.) BTOC	70
Final tubing depth (ft.) BTOC	70
Initial pump speed	8.02
Time pump speed was initialized	10:46
Pump speed at flow into cylinder	~~8.0~~ 8.02 (wdg)
Started new roll of tubing at	
Three well volume (mL)	92,608

avg 1450 — 1160, 1340, 1260, 2040

8.1549 gal

3785.4 ml/gal

2,000 mL volume poured into bucket:

Time	10:56	11:05	11:14	11:22	11:30	11:40			
Cummulative Volume (mL)	2000	4000	6020	8000	10000	12000			

Additional remarks: 1/2 inch water, just below TOC

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

DATE: 12/3/2013	PROJECT NAME: GPA Bainbridge
WELL/SAMPLE NO: MW-15	PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Partly cloudy ~71°F 0 mph wind high humidity

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER

BGS WELL SCREEN INTERVAL: 13.00 FT. to 23.00 FT.

INITIAL WATER LEVEL (BTOC): NA FT. TIME: ~~410~~ 1610

BTOC WELL SCREEN INTERVAL: 13.00 FT. to 23.00 FT.

MEASURED TOTAL WELL DEPTH (BGS): 20.11 FT.

MEASURED TOTAL WELL DEPTH (BTOC) FT.

FLUSH-TO-GRADE 0 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [ ] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY

[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8081 B / 9060 A / 6010 / 9056 A / RSK -175

LABORATORY PERFORMING ANALYSIS: Xenco

WATER ANALYZER MODEL: Horiba U-52 SERIAL #: UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT)	REMARKS (COLOR, ODOR, ETC.)

COMMENTS:

SAMPLE COLLECTION TIME:

PREPARED BY: Patrick Craygon

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	
Initial tubing depth (ft.) BTOC	
Final tubing depth (ft.) BTOC	
Initial pump speed	
Time pump speed was initialized	
Pump speed at flow into cylinder	
Started new roll of tubing at	
Three well volume (mL)	

Well is dry

No Sample collected

2,000 mL volume poured into bucket:

Time									
Cummulative Volume (mL)									

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-16

DATE: 12/4/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: cloudy & overcast ~70°F < 5 mph wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 14.00 FT. to 24.00 FT.

INITIAL WATER LEVEL (BTOC): 19.03 FT. | TIME: 13:03 | BTOC WELL SCREEN INTERVAL: 13.80 FT. to 23.80 FT.

MEASURED TOTAL WELL DEPTH (BGS): 24.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) FT. | FLUSH-TO-GRADE ~0.2 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [ ] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY

[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8081 B / 9060 A / 6010 / 9056 A / RSK -175

LABORATORY PERFORMING ANALYSIS: Xenco | WATER ANALYZER MODEL: Horiba U-52 | SERIAL #: UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT)	REMARKS (COLOR, ODOR, ETC.)
13:12	0	23.73	5.77	158	0.037	7.5	5.64	19.07	first pull is clear
13:17	1300	23.23	4.96	209	0.035	15.9	4.08	19.07	
13:22	2400	23.17	4.94	217	0.035	34.8	3.42	19.07	
13:27	3680	23.15	4.93	220	0.035	36.9	3.13	19.07	

COMMENTS:

SAMPLE COLLECTION TIME: 13:28

PREPARED BY: Will Grant

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant.

Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	24
Initial tubing depth (ft.) BTOC	22
Final tubing depth (ft.) BTOC	22
Initial pump speed	7.07
Time pump speed was initialized	13:09
Pump speed at flow into cylinder	7.07
Started new roll of tubing at	
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	1:22								
Cummulative Volume (mL)	2400								

Additional remarks: 1½ inches of water in vault, still below well TOC. Water is clear in cylinder. Sampled ~~MW-16~~ without < 10 NTU because turbidity was messy.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-17

DATE: 12/4/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: sunny, overcast ~75°F no wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 50.00 FT. to 60.00 FT.

INITIAL WATER LEVEL (BTOC): 15.85 FT. | TIME: 10:09 | BTOC WELL SCREEN INTERVAL: 49.55 FT. to 59.55 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 60.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) FT. | FLUSH-TO-GRADE ~0.45 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [ ] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY

[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8081 B / 9060 A / 6010 / 9056 A / RSK -175

LABORATORY PERFORMING ANALYSIS: Xenco | WATER ANALYZER MODEL: Horiba U-52 | SERIAL #: UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT)	REMARKS (COLOR, ODOR, ETC.)
10:19	0	19.9	6.26	138	0.277	6.9	4.32	15.87	first pull is clear
10:24	1760	20.1	7.04	85	0.542	1.3	1.68	15.87	
10:29	3340	20.12	7.12	[illegible]	[illegible]0.55	[illegible]3.4	1.08	15.87	
10:34	4900	20.14	7.15	82	0.55	1.5	0.9	15.87	
10:39	6500	20.15	7.16	72	0.544	8.0	0.75	15.87	

COMMENTS:

SAMPLE COLLECTION TIME: 10:41

PREPARED BY: Will Grant

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant.

Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	57
Initial tubing depth (ft.) BTOC	55
Final tubing depth (ft.) BTOC	55
Initial pump speed	8.53
Time pump speed was initialized	10:17
Pump speed at flow into cylinder	8.53
Started new roll of tubing at	10:13
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	10:25	10:32	10:39						
Cummulative Volume (mL)	2000	4200	6500						

Additional remarks: tan/grey tint in cylinder. Bacteria floating in samples when collected

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

PAGE 1 OF 1

DATE: 12/3/13	PROJECT NAME: GPA Bainbridge
WELL/SAMPLE NO: MW-18	PROJECT NO: 400007 - 4.5
WEATHER CONDITIONS: sunny / partly cloudy ~78°F < 5mph wind	
SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER	
WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER	BGS WELL SCREEN INTERVAL: 22.00 FT. to 32.00 FT.
INITIAL WATER LEVEL (BTOC): 17.64 FT. TIME:	BTOC WELL SCREEN INTERVAL: 21.60 FT. to 31.60 FT.
MEASURED TOTAL WELL DEPTH (BGS): 32.00 FT.	MEASURED TOTAL WELL DEPTH (BTOC) FT. FLUSH-TO-GRADE ~0.4 FT.
PURGING DEVICE: Pegasus Alexis Peristaltic Pump	[ ] DEDICATED [ ] DISPOSABLE [ ] DECONTAMINATED
SAMPLING DEVICE: 1/4" Teflon lined tubing	[ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED
EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY	
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE	
CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED	
ANALYTICAL PARAMETERS: 8081 B / 9060 A / 6010 / 9056 A / RSK -175	
LABORATORY PERFORMING ANALYSIS: Xenco	WATER ANALYZER MODEL: Horiba U-52 SERIAL #: UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C) 24.05	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT)	REMARKS (COLOR, ODOR, ETC.)
15:27	~~1160~~	~~24.05~~	6.46	137	2.17	0.7	3.71	17.65	first pull is clear
15:32	1580	24.21	6.54	101	2.23	~~3.9~~	2.05	17.63	
15:37	2940	24.18	6.55	90	2.24	1.2	1.36	17.66	

COMMENTS:

SAMPLE COLLECTION TIME: 15:38

PREPARED BY: Will Grant

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	~~26.5~~	28.5
Initial tubing depth (ft.) BTOC	~~25~~	27
Final tubing depth (ft.) BTOC	27	
Initial pump speed	~~7.06~~	
Time pump speed was initialized	3:23	
Pump speed at flow into cylinder	7.06	
Started new roll of tubing at		
Three well volume (mL)		

2,000 mL volume poured into bucket:

Time	15:33								
Cummulative Volume (mL)	2000								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-19

DATE: 12/3/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Overcast light rain ~70°F 0 mph Wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 22.00 FT. to 32.00 FT.

INITIAL WATER LEVEL (BTOC): 18.71 FT. | TIME: 14:24 | BTOC WELL SCREEN INTERVAL: 21.65 FT. to 31.65 FT.

MEASURED TOTAL WELL DEPTH (BGS): 32.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) N/A FT. | FLUSH-TO-GRADE ~0.35 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [ ] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY
[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8081 B / 9060 A / 6010 / 9056 A / RSK -175

LABORATORY PERFORMING ANALYSIS: Xenco | WATER ANALYZER MODEL: Horiba U-52 | SERIAL #: UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT)	REMARKS (COLOR, ODOR, ETC.)
14:35	0	22.82	4.49	199	1.22	6.4	10.59	19.72	first pull is clear
14:40	1380	23.12	3.79	279	1.25	4.6	2.62	19.72	Clear in cylinder
14:45	2640	23.21	3.78	289	1.25	4.8	1.6	19.72	
14:50	3920	23.26	3.79	295	1.25	1.2	1.2	19.71	

COMMENTS:

SAMPLE COLLECTION TIME: 14:52

PREPARED BY: Patrick Gregson

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant.
Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	29.0
Initial tubing depth (ft.) BTOC	27.0
Final tubing depth (ft.) BTOC	27.0
Initial pump speed	7.03
Time pump speed was initialized	14:30
Pump speed at flow into cylinder	7.03
Started new roll of tubing at	—
Three well volume (mL)	—

14:36 began raining heavily

2,000 mL volume poured into bucket:

Time	14:43								
Cummulative Volume (mL)	2900								

Additional remarks: 1½ inches of water in well casing above cap, water bailed out prior to opening cap

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-20

DATE: 12/4/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Overcast, some dark clouds ~70°F 0-5 MPH S. Wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 22.00 FT. to 32.00 FT.

INITIAL WATER LEVEL (BTOC): 18.49 FT. | TIME: 13:52 | BTOC WELL SCREEN INTERVAL: 21.75 FT. to 31.75 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 32.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) FT. | FLUSH-TO-GRADE ~0.25 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [ ] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY

[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8081 B / 9060 A / 6010 / 9056 A / RSK -175

LABORATORY PERFORMING ANALYSIS: Xenco | WATER ANALYZER MODEL: Horiba U-52 | SERIAL #: UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT)	REMARKS (COLOR, ODOR, ETC.)
14:00	0	23.45	4.17	244	0.297	0.0	3.97	18.49	First pull clear
14:05	1300	22.60	4.11	270	0.314	0.0	3.65	18:49	
14:10	2600	22.55	4.12	279	0.316	0.0	3.6	18:49	
14:15	3780	22.53	4.12	285	0.314	0.0	3.54	18.50	

COMMENTS:

SAMPLE COLLECTION TIME: 14:17

PREPARED BY: Patrick Grayson

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	~~27~~ 29
Initial tubing depth (ft.) BTOC	27
Final tubing depth (ft.) BTOC	27
Initial pump speed	7.07
Time pump speed was initialized	13:57
Pump speed at flow into cylinder	7.07
Started new roll of tubing at	
Three well volume (mL)	

Began raining heavily as samples were being taken

2,000 mL volume poured into bucket:

Time	14:07								
Cummulative Volume (mL)	2000								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-21

DATE: 12/4/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Raining ~70°F Raining slightly 3 mph wind

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 22.00 FT. to 32.00 FT.

INITIAL WATER LEVEL (BTOC): 19.47 FT. | TIME: 14:56 | BTOC WELL SCREEN INTERVAL: 21.93 FT. to 31.93 FT.

MEASURED TOTAL WELL DEPTH (BGS): 32.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) FT. | FLUSH-TO-GRADE ~0.075 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [ ] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY

[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8081 B / 9060 A / 6010 / 9056 A / RSK -175

LABORATORY PERFORMING ANALYSIS: Xenco | WATER ANALYZER MODEL: Horiba U-52 | SERIAL #: UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT)	REMARKS (COLOR, ODOR, ETC.)
15:05	0	22.14	4.23	290	0.280	0.0	5.69	19.48	first pull is clear
15:10	1240	21.99	4.19	296	0.294	0.0	3.79	19.48	
15:15	2520	21.96	4.19	299	0.297	0.0	3.35	19.48	
15:20	3780	21.89	4.18	301	0.303	0.0	3.17	19.48	
									clear in cylinder

COMMENTS:

SAMPLE COLLECTION TIME: 15:22

PREPARED BY: Will Grant

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant.

Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	29
Initial tubing depth (ft.) BTOC	27
Final tubing depth (ft.) BTOC	27
Initial pump speed	7.07
Time pump speed was initialized	15:03
Pump speed at flow into cylinder	7.07
Started new roll of tubing at	
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	15:13								
Cummulative Volume (mL)	2000								

Additional remarks: 1/2" of water over TOC of well in well vault, Bailed out before opened well cap. Small bubbles in tube.

ENVIRONMENTAL INTERNATIONAL CORPORATION

PAGE 1 OF 1

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-22

DATE: 12/5/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: sunny ~30°F 5-7 mph wind with care driving by

SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 24.00 FT. to 34.00 FT.

INITIAL WATER LEVEL (BTOC): 20.76 FT. | TIME: 1310 | BTOC WELL SCREEN INTERVAL: 23.80 FT. to 33.80 FT.

MEASURED TOTAL WELL DEPTH (BGS): 35.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) FT. | FLUSH-TO-GRADE ~0.2 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump [ ] DEDICATED [ ] DISPOSABLE [ ] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing [ ] DEDICATED [X] DISPOSABLE [ ] DECONTAMINATED

EQUIP. DECON. [X] ALCONOX WASH [ ] ISOPROPANOL [X] DIST/DEION 1 RINSE [ ] DIST/DEION FINAL RINSE [X] AIR DRY

[ ] LIQUINOX WASH [ ] DIST/DEION 2 RINSE [ ] OTHER SOLVENT [ ] TAP WATER WASH [ ] TAP WATER FINAL RINSE

CONTAINER PRESERVATION: [X] LAB PRESERVED [ ] FIELD PRESERVED

ANALYTICAL PARAMETERS: 8081 B / 9060 A / 6010 / 9056 A / RSK -175

LABORATORY PERFORMING ANALYSIS: Xenco | WATER ANALYZER MODEL: Horiba U-52 | SERIAL #: UDRU5DA9

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT)	REMARKS (COLOR, ODOR, ETC.)
13:19	0	25.41	4.0	161	0.613	0.0	2.62	20.86	first pull is clear
13:24	1200	24.45	3.86	185	0.648	0.0	1.24	20.87	
13:29	2500	23.98	3.85	191	0.640	0.0	1.15	20.87	
13:34	3800	24.08	3.86	196	0.614	0.0	1.26	20.87	

COMMENTS:

SAMPLE COLLECTION TIME: 13:35

PREPARED BY: Will Grant

* Parameters are stabilized when 3 consecutive readings are within ± 0.1 FOR pH and ± 5% for specific conductivity is constant. Reasonable attempts must be made to reach a 0.2 mg/L dissolved oxygen reading and a turbidity reading below 10 NTU as per the Groundwater Sampling Operating Procedure, US EPA, Region 4, # SESDPROC-301-R3.

Length of tubing cut (ft.)	31
Initial tubing depth (ft.) BTOC	29
Final tubing depth (ft.) BTOC	29
Initial pump speed	7.03
Time pump speed was initialized	13:17
Pump speed at flow into cylinder	7.03
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	13:27								
Cummulative Volume (mL)	2000								

Additional remarks:

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

THIRD VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT D
GROUNDWATER ANALYTICAL RESULTS

Analytical Report 475208

for

Environmental International Corporation

Project Manager: Alan Sanders

Bainbridge, GA Site

400007-4.5

12-DEC-13

Collected By: Client

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-13-15-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Lakeland: Florida (E84098)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

XENCO Laboratories
Florida Testing Services, LLC

12-DEC-13

Project Manager: **Alan Sanders**
Environmental International Corporation
161 Kimball Bridge Road, Suite 100
Alpharetta, GA 30009

Reference: XENCO Report No(s): **475208**
Bainbridge, GA Site
Project Address: GA

Alan Sanders:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 475208. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 475208 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Eben D. Buchanan, Jr.

Eben Buchanan
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
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Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America

Sample Cross Reference 475208

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	12-03-13 09:31		475208-001
MW-1A	W	12-03-13 10:29		475208-002
MW-4U	W	12-03-13 11:31		475208-003
MW-7	W	12-03-13 13:51		475208-004
MW-11	W	12-03-13 07:59		475208-005
MW-18	W	12-03-13 15:38		475208-006
MW-19	W	12-03-13 14:52		475208-007
Equipment Blank	W	12-03-13 16:26		475208-008

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 475208

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-1** Matrix: Water Date Received:12.04.13 12.00

Lab Sample Id: 475208-001 Date Collected: 12.03.13 09.31

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P

Tech: BLF % Moisture:

Analyst: TIW Date Prep: 12.04.13 17.27

Seq Number: 929250

Draft

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7.81**	5.00	0.104	mg/L	12.04.13 22.07		1
Nitrate as N	14797-55-8	**9.37**	1.00	0.240	mg/L	12.04.13 21.50	D	10
Sulfate	14808-79-8	**297**	50.0	1.68	mg/L	12.04.13 21.50	D	10

Certificate of Analytical Results 475208

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-1A** Matrix: Water Date Received:12.04.13 12.00

Lab Sample Id: 475208-002 Date Collected: 12.03.13 10.29

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P

Tech: BLF % Moisture:

Analyst: TIW Date Prep: 12.04.13 17.27

Seq Number: 929250

Draft

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.24**	5.00	0.104	mg/L	12.04.13 22.25		1
Nitrate as N	14797-55-8	**18.2**	2.00	0.0480	mg/L	12.05.13 09.57	D	2
Sulfate	14808-79-8	**496**	50.0	1.68	mg/L	12.09.13 13.04	D	10

Certificate of Analytical Results 475208

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-4U** Matrix: Water Date Received:12.04.13 12.00

Lab Sample Id: 475208-003 Date Collected: 12.03.13 11.31

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P

Tech: BLF % Moisture:

Analyst: TIW Date Prep: 12.04.13 17.27

Seq Number: 929250

Draft

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4.83**	5.00	0.104	mg/L	12.04.13 22.42	J	1
Nitrate as N	14797-55-8	**4.67**	1.00	0.0240	mg/L	12.04.13 22.42		1
Sulfate	14808-79-8	**48.0**	5.00	0.168	mg/L	12.04.13 22.42		1

Certificate of Analytical Results 475208

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-7** Matrix: Water Date Received:12.04.13 12.00

Lab Sample Id: 475208-004 Date Collected: 12.03.13 13.51

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P

Tech: BLF % Moisture:

Analyst: TIW Date Prep: 12.04.13 17.27

Seq Number: 929250

Draft

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**16.4**	5.00	0.104	mg/L	12.04.13 23.00		1
Nitrate as N	14797-55-8	**17.2**	2.00	0.0480	mg/L	12.05.13 10.14	D	2
Sulfate	14808-79-8	**332**	50.0	1.68	mg/L	12.11.13 15.59	D	10

Certificate of Analytical Results 475208

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-11** Matrix: Water Date Received:12.04.13 12.00

Lab Sample Id: 475208-005 Date Collected: 12.03.13 07.59

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P

Tech: BLF % Moisture:

Analyst: TIW Date Prep: 12.04.13 17.27

Seq Number: 929250

Draft

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3.13**	5.00	0.104	mg/L	12.04.13 19.47	JX	1
Nitrate as N	14797-55-8	**0.638**	1.00	0.0240	mg/L	12.04.13 19.47	J	1
Sulfate	14808-79-8	**36.4**	5.00	0.168	mg/L	12.04.13 19.47		1

Certificate of Analytical Results 475208

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-18** Matrix: Water Date Received:12.04.13 12.00

Lab Sample Id: 475208-006 Date Collected: 12.03.13 15.38

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P

Tech: BLF % Moisture:

Analyst: TIW Date Prep: 12.04.13 17.27

Seq Number: 929250

Draft

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**48.0**	50.0	1.04	mg/L	12.05.13 11.24	D	10
Nitrate as N	14797-55-8	**80.1**	10.0	0.240	mg/L	12.05.13 11.24	D	10
Sulfate	14808-79-8	**99.3**	50.0	1.68	mg/L	12.05.13 11.24	D	10

Certificate of Analytical Results 475208

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-19** Matrix: Water Date Received:12.04.13 12.00

Lab Sample Id: 475208-007 Date Collected: 12.03.13 14.52

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P

Tech: BLF % Moisture:

Analyst: TIW Date Prep: 12.04.13 17.27

Seq Number: 929250

Draft

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**20.8**	5.00	0.104	mg/L	12.04.13 23.17		1
Nitrate as N	14797-55-8	**49.5**	10.0	0.240	mg/L	12.05.13 10.49	D	10
Sulfate	14808-79-8	**129**	50.0	1.68	mg/L	12.05.13 10.49	D	10

Certificate of Analytical Results 475208

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **Equipment Blank** Matrix: Water Date Received:12.04.13 12.00

Lab Sample Id: 475208-008 Date Collected: 12.03.13 16.26

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P

Tech: BLF % Moisture:

Analyst: TIW Date Prep: 12.04.13 17.27

Seq Number: 929250

Draft

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	U	5.00	0.104	mg/L	12.04.13 23.52	U	1
Nitrate as N	14797-55-8	U	1.00	0.0240	mg/L	12.04.13 23.52	U	1
Sulfate	14808-79-8	U	5.00	0.168	mg/L	12.04.13 23.52	U	1

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Environmental International Corporation

Bainbridge, GA Site

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 929250 Matrix: Water Date Prep: 12.04.13
MB Sample Id: 648019-1-BLK LCS Sample Id: 648019-1-BKS LCSD Sample Id: 648019-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.104	10.0	8.54	85	8.63	86	80-120	1	15	mg/L	12.05.13 00:45	
Nitrate as N	<0.0240	1.00	0.971	97	0.923	92	80-120	5	15	mg/L	12.05.13 00:45	
Sulfate	<0.168	10.0	8.51	85	8.55	86	80-120	0	15	mg/L	12.05.13 00:45	

Draft

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 929266 Matrix: Water Date Prep: 12.05.13
MB Sample Id: 648029-1-BLK LCS Sample Id: 648029-1-BKS LCSD Sample Id: 648029-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.104	10.0	9.59	96	9.62	96	80-120	0	15	mg/L	12.05.13 12:17	
Nitrate as N	<0.0240	1.00	0.916	92	0.905	91	80-120	1	15	mg/L	12.05.13 12:17	
Sulfate	<0.168	10.0	9.60	96	9.24	92	80-120	4	15	mg/L	12.05.13 12:17	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 929365 Matrix: Water Date Prep: 12.09.13
MB Sample Id: 648073-1-BLK LCS Sample Id: 648073-1-BKS LCSD Sample Id: 648073-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.104	10.0	9.73	97	9.74	97	80-120	0	15	mg/L	12.09.13 12:29	
Nitrate as N	<0.0240	1.00	0.913	91	0.922	92	80-120	1	15	mg/L	12.09.13 12:29	
Sulfate	<0.168	10.0	9.38	94	9.32	93	80-120	1	15	mg/L	12.09.13 12:29	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 929250 Matrix: Water Date Prep: 12.04.13
Parent Sample Id: 475208-005 MD Sample Id: 475208-005 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3.13	1.82	53	15	mg/L	12.04.13 20:05	FJ
Nitrate as N	0.638	0.878	32	15	mg/L	12.04.13 20:05	FJ
Sulfate	36.4	38.9	7	15	mg/L	12.04.13 20:05	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 929266 Matrix: Water Date Prep: 12.05.13
Parent Sample Id: 475296-007 MD Sample Id: 475296-007 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	38.3	37.9	1	15	mg/L	12.05.13 19:15	
Nitrate as N	3.90	4.32	10	15	mg/L	12.05.13 19:15	
Sulfate	427	432	1	15	mg/L	12.05.13 19:15	

QC Summary 475208

Environmental International Corporation

Bainbridge, GA Site

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 929250 Matrix: Water Date Prep: 12.04.13
Parent Sample Id: 475208-005 MS Sample Id: 475208-005 S MSD Sample Id: 475208-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3.13	10.0	11.1	80	11.0	79	80-120	1	15	mg/L	12.04.13 20:22	X
Nitrate as N	0.638	1.00	1.79	115	1.77	113	80-120	1	15	mg/L	12.04.13 20:22	
Sulfate	36.4	10.0	47.5	111	47.2	108	80-120	1	15	mg/L	12.04.13 20:22	

Draft

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 929266 Matrix: Water Date Prep: 12.05.13
Parent Sample Id: 475296-007 MS Sample Id: 475296-007 S MSD Sample Id: 475296-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	38.3	10.0	48.9	106	49.1	108	80-120	0	15	mg/L	12.05.13 19:32	
Nitrate as N	3.90	1.00	5.20	130	5.21	131	80-120	0	15	mg/L	12.05.13 19:32	X
Sulfate	427	10.0	427	0	427	0	80-120	0	15	mg/L	12.05.13 19:32	X

XENCO Laboratories

☐ 3231 NW 7th Ave, Boca Raton, Fl 33431 561-447-7373
☐ 2505 Falkenburg Rd, Tampa, Fl 33569 813-620-2000
☒ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800
☐ Philadephia/New Jersey 610-955-5649
☐ South Carolina 803-543-8099 ☐ Other

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 266743 Page 1 of 1

Company-City EIC - Alpharetta **Phone** 770-772-7100

Lab Only: WO#475208

Proj Name-Location GPA Bainbridge ☒ Previously done at XENCO **Project ID** 400007-45

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific.
It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Proj State: AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, TX, UT Other **Proj. Manager (PM)**

e-Mail Results to ☐ PM or asanders@eicusa.com **Fax No:**

Invoice to ☐ Accounting ☒ Inc. Invoice with Final Report ☐ Invoice must have a P.O Bill to:

Quote/Pricing: **P.O No:** ☐ Call for P.O.

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA

QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:

Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)

Sampler Name Patrick Gragson Signature A. Patrick Gragson

	Sample ID	Sampling Date	Time	Depth ft/in/m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives
1	MW-1	12/3/2013	9:31		W		X	1	O	P	C
2	MW-1A	12/3/2013	10:29		W		X	1	O	P	C
3	MW-4U	12/3/2013	11:31		W		X	1	O	P	C
4	MW-7	12/3/2013	13:51		W		X	1	O	P	C
5	MW-11	12/3/2013	7:59		W		X	1	O	P	C
6	MW-18	12/3/2013	15:38		W		X	1	O	P	C
7	MW-19	12/3/2013	14:52		W		X	1	O	P	C
8	Equipment Blank	12/3/2013	16:26		W		X	1	O	P	C
9											
10											

VOCs Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs
VOCs PP TCL DW Appdx-1 Appdx-2 CALL Other:
PAHs
FL PRO DRO GRO MA EPH MA VPH
SVOCs: Full-List DW BN&AE TCL PP Appdx-2 CALL
OC Pesticides PCBs Herbicides OP Pesticides
Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2
SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)
EDB / DBCP
9056A Chloride, Nitrate, Sulfate

TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d
Addn: PAH above mg/L W, mg/Kg S Highest Hit
Hold Samples (Surcharges will apply and are pre-approved)

Remarks
Sample Clean-ups are pre-approved as needed

Addn: Date Rcv by: From:

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) A.P.G. A. Patrick Gragson	12/3/2013 17:00	2) DAW LCG m9S	12/04/13 12:00
3)		4)	
5)		6)	

Total Containers per COC: 8 Cooler Temp: 2.3°C

Upon signings this COC you accept XENCO terms and Conditions unless otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved.

Preservatives: Various (**V**), HCl pH<2 (**H**), H2SO4 pH<2 (**S**), HNO3 pH<2 (**N**), Asbc Acid&NaOH (**A**), ZnAc&NaOH (**Z**), (Cool,<4C) (**C**), None (**NA**), See Label (**L**), Other (**O**) _____

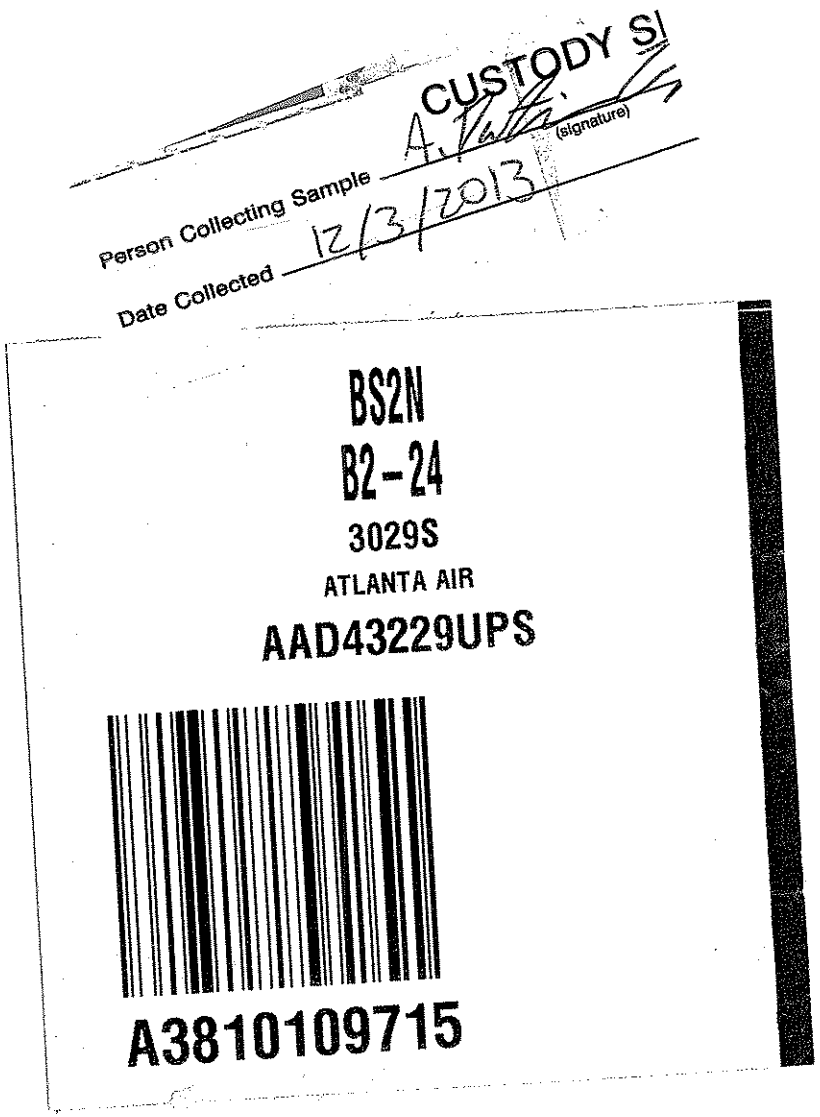
Cont. Size: 4oz (**4**), 8oz (**8**), 32oz (**32**), 40ml VOA (**40**), 1L (**1**), 500ml (**5**), Tedlar Bag (**B**), Various (V), Other 125 mL **Cont. Type:** Glass Amb (**A**), Glass Clear (**C**), Plastic (**P**), Various (**V**)

Matrix: Air (**A**), Product (**P**), Solid(**S**), Water (**W**), Liquid (**L**)

Committed to Excellence in Service and Quality *www.xenco.com*

Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previoiusly negotiated under a fully executed client contract.

Draft Ver. 1.000


CUSTODY SI
(signature)
Person Collecting Sample
Date Collected 12/3/2013
BS2N
B2-24
3029S
ATLANTA AIR
AAD43229UPS
A3810109715

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Florida Testing Services, LLC

Client: Environmental International Corporation

Date/ Time Received: 12/04/2013 12:00:00 PM

Work Order #: 475208

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : #61

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.3
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**
#5 Custody Seals intact on sample bottles?	**N/A**
#6 *Custody Seals Signed and dated?	**Yes**
#7 *Chain of Custody present?	**Yes**
#8 Sample instructions complete on Chain of Custody?	**Yes**
#9 Any missing/extra samples?	**No**
#10 Chain of Custody signed when relinquished/ received?	**Yes**
#11 Chain of Custody agrees with sample label(s)?	**Yes**
#12 Container label(s) legible and intact?	**Yes**
#13 Sample matrix/ properties agree with Chain of Custody?	**Yes**
#14 Samples in proper container/ bottle?	**Yes**
#15 Samples properly preserved?	**N/A**
#16 Sample container(s) intact?	**Yes**
#17 Sufficient sample amount for indicated test(s)?	**Yes**
#18 All samples received within hold time?	**Yes**
#19 Subcontract of sample(s)?	**No**
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	**N/A**
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	**N/A**
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:

Checklist completed by: Dario Lagunas Date: 12/04/2013

Checklist reviewed by: Eben Buchanan Date: 12/04/2013

Analytical Report 475296

for

Environmental International Corporation

Project Manager: Alan Sanders

Bainbridge, GA Site

400007-4.5

12-DEC-13

Collected By: Client

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-13-15-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Lakeland: Florida (E84098)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

XENCO Laboratories
Florida Testing Services, LLC

12-DEC-13

Project Manager: **Alan Sanders**
Environmental International Corporation
161 Kimball Bridge Road, Suite 100
Alpharetta, GA 30009

Reference: XENCO Report No(s): **475296**
Bainbridge, GA Site
Project Address: GA

Alan Sanders:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 475296. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 475296 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Eben D. Buchanan, Jr.

Eben Buchanan
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America

Sample Cross Reference 475296

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-2	W	12-04-13 07:37		475296-001
MW-3	W	12-04-13 08:49		475296-002
MW-12	W	12-04-13 11:30		475296-003
MW-16	W	12-04-13 13:28		475296-004
MW-17	W	12-04-13 10:41		475296-005
MW-10	W	12-04-13 16:20		475296-006
MW-10 Duplicate	W	12-04-13 16:30		475296-007
MW-20	W	12-04-13 14:17		475296-008
MW-21	W	12-04-13 15:22		475296-009

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Hits Summary 475296

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id : **MW-2**
Lab Sample Id : 475296-001

Matrix : Water
Date Collected : 12.04.13 07.37
Date Received : 12.05.13 11.40

% Moisture :

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 929266

Prep Method: SW9056P
Date Prep: 12.05.13 09.22

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3.56	mg/L	12.05.13 14.02	J	1
Nitrate as N	14797-55-8	0.199	mg/L	12.05.13 14.02	J	1
Sulfate	14808-79-8	18.8	mg/L	12.05.13 14.02		1

Hits Summary 475296

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id : **MW-3**
Lab Sample Id : 475296-002

Matrix : Water
Date Collected : 12.04.13 08.49
Date Received : 12.05.13 11.40

% Moisture :

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 929266

Prep Method: SW9056P
Date Prep: 12.05.13 09.22

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5.22	mg/L	12.05.13 14.19		1
Nitrate as N	14797-55-8	0.543	mg/L	12.05.13 14.19	J	1
Sulfate	14808-79-8	10.1	mg/L	12.05.13 14.19		1

Hits Summary 475296

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id : **MW-12**
Lab Sample Id : 475296-003

Matrix : Water
Date Collected : 12.04.13 11.30
Date Received : 12.05.13 11.40

% Moisture :

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 929266

Prep Method: SW9056P
Date Prep: 12.05.13 09.22

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	29.4	mg/L	12.05.13 15.12		1
Nitrate as N	14797-55-8	9.75	mg/L	12.05.13 15.12		1

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 929266

Prep Method: SW9056P
Date Prep: 12.09.13 11.19

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Sulfate	14808-79-8	77.7	mg/L	12.09.13 13.39	D	2

Hits Summary 475296

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id : **MW-16**
Lab Sample Id : 475296-004

Matrix : Water
Date Collected : 12.04.13 13.28
Date Received : 12.05.13 11.40

% Moisture :

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 929266

Prep Method: SW9056P
Date Prep: 12.05.13 09.22

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2.33	mg/L	12.05.13 15.29	J	1
Nitrate as N	14797-55-8	0.703	mg/L	12.05.13 15.29	J	1
Sulfate	14808-79-8	1.40	mg/L	12.05.13 15.29	J	1

Hits Summary 475296

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id : **MW-17**
Lab Sample Id : 475296-005

Matrix : Water
Date Collected : 12.04.13 10.41
Date Received : 12.05.13 11.40

% Moisture :

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 929266

Prep Method: SW9056P
Date Prep: 12.05.13 09.22

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.2	mg/L	12.05.13 14.37		1
Nitrate as N	14797-55-8	3.64	mg/L	12.05.13 14.37		1
Sulfate	14808-79-8	47.0	mg/L	12.05.13 14.37		1

Hits Summary 475296

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id : **MW-10**
Lab Sample Id : 475296-006

Matrix : Water
Date Collected : 12.04.13 16.20
Date Received : 12.05.13 11.40

% Moisture :

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 929266

Prep Method: SW9056P
Date Prep: 12.05.13 09.22

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	39.3	mg/L	12.05.13 16.22		1
Nitrate as N	14797-55-8	3.93	mg/L	12.05.13 16.22		1

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 929266

Prep Method: SW9056P
Date Prep: 12.09.13 11.19

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Sulfate	14808-79-8	370	mg/L	12.09.13 14.49	D	10

Hits Summary 475296

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id : **MW-10 Duplicate**
Lab Sample Id : 475296-007

Matrix : Water
Date Collected : 12.04.13 16.30
Date Received : 12.05.13 11.40

% Moisture :

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 929266

Prep Method: SW9056P
Date Prep: 12.05.13 09.22

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	38.3	mg/L	12.05.13 16.39		1
Nitrate as N	14797-55-8	3.90	mg/L	12.05.13 16.39	X	1

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 929266

Prep Method: SW9056P
Date Prep: 12.09.13 11.19

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Sulfate	14808-79-8	380	mg/L	12.09.13 15.24	DX	10

Hits Summary 475296

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id : **MW-20**
Lab Sample Id : 475296-008

Matrix : Water
Date Collected : 12.04.13 14.17
Date Received : 12.05.13 11.40

% Moisture :

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 929266

Prep Method: SW9056P
Date Prep: 12.05.13 09.22

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.4	mg/L	12.05.13 15.47		1
Nitrate as N	14797-55-8	0.809	mg/L	12.05.13 15.47	J	1

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 929266

Prep Method: SW9056P
Date Prep: 12.09.13 11.19

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Sulfate	14808-79-8	92.7	mg/L	12.09.13 15.42	D	5

Hits Summary 475296

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id : **MW-21**
Lab Sample Id : 475296-009

Matrix : Water
Date Collected : 12.04.13 15.22
Date Received : 12.05.13 11.40

% Moisture :

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 929266

Prep Method: SW9056P
Date Prep: 12.05.13 09.22

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.70	mg/L	12.05.13 16.04		1
Nitrate as N	14797-55-8	1.26	mg/L	12.05.13 16.04		1

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 929266

Prep Method: SW9056P
Date Prep: 12.09.13 11.19

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Sulfate	14808-79-8	119	mg/L	12.09.13 16.17	D	5

Certificate of Analytical Results 475296

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-2** Matrix: Water Date Received:12.05.13 11.40

Lab Sample Id: 475296-001 Date Collected: 12.04.13 07.37

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P

Tech: BLF % Moisture:

Analyst: TIW Date Prep: 12.05.13 09.22

Seq Number: 929266

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3.56**	5.00	0.104	mg/L	12.05.13 14.02	J	1
Nitrate as N	14797-55-8	**0.199**	1.00	0.0240	mg/L	12.05.13 14.02	J	1
Sulfate	14808-79-8	**18.8**	5.00	0.168	mg/L	12.05.13 14.02		1

Certificate of Analytical Results 475296

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id:	**MW-3**	Matrix:	Water	Date Received:	12.05.13 11.40
Lab Sample Id:	475296-002	Date Collected:	12.04.13 08.49		

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A — Prep Method: SW9056P

Tech: BLF — % Moisture:

Analyst: TIW — Date Prep: 12.05.13 09.22

Seq Number: 929266

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5.22**	5.00	0.104	mg/L	12.05.13 14.19		1
Nitrate as N	14797-55-8	**0.543**	1.00	0.0240	mg/L	12.05.13 14.19	J	1
Sulfate	14808-79-8	**10.1**	5.00	0.168	mg/L	12.05.13 14.19		1

Certificate of Analytical Results 475296

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id:	**MW-12**	Matrix:	Water	Date Received:	12.05.13 11.40
Lab Sample Id:	475296-003	Date Collected:	12.04.13 11.30		

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Prep Method: SW9056P
Tech: BLF
% Moisture:
Analyst: TIW
Date Prep: 12.05.13 09.22
Seq Number: 929266

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**29.4**	5.00	0.104	mg/L	12.05.13 15.12		1
Nitrate as N	14797-55-8	**9.75**	1.00	0.0240	mg/L	12.05.13 15.12		1
Sulfate	14808-79-8	**77.7**	10.0	0.336	mg/L	12.09.13 13.39	D	2

Certificate of Analytical Results 475296

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id:	**MW-16**	Matrix:	Water	Date Received:	12.05.13 11.40
Lab Sample Id:	475296-004	Date Collected:	12.04.13 13.28		

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A — Prep Method: SW9056P

Tech: BLF — % Moisture:

Analyst: TIW — Date Prep: 12.05.13 09.22

Seq Number: 929266

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2.33**	5.00	0.104	mg/L	12.05.13 15.29	J	1
Nitrate as N	14797-55-8	**0.703**	1.00	0.0240	mg/L	12.05.13 15.29	J	1
Sulfate	14808-79-8	**1.40**	5.00	0.168	mg/L	12.05.13 15.29	J	1

Certificate of Analytical Results 475296

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-17** Matrix: Water Date Received:12.05.13 11.40

Lab Sample Id: 475296-005 Date Collected: 12.04.13 10.41

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P

Tech: BLF % Moisture:

Analyst: TIW Date Prep: 12.05.13 09.22

Seq Number: 929266

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**12.2**	5.00	0.104	mg/L	12.05.13 14.37		1
Nitrate as N	14797-55-8	**3.64**	1.00	0.0240	mg/L	12.05.13 14.37		1
Sulfate	14808-79-8	**47.0**	5.00	0.168	mg/L	12.05.13 14.37		1

Certificate of Analytical Results 475296

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-10** Matrix: Water Date Received:12.05.13 11.40

Lab Sample Id: 475296-006 Date Collected: 12.04.13 16.20

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P

Tech: BLF % Moisture:

Analyst: TIW Date Prep: 12.05.13 09.22

Seq Number: 929266

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**39.3**	5.00	0.104	mg/L	12.05.13 16.22		1
Nitrate as N	14797-55-8	**3.93**	1.00	0.0240	mg/L	12.05.13 16.22		1
Sulfate	14808-79-8	**370**	50.0	1.68	mg/L	12.09.13 14.49	D	10

Certificate of Analytical Results 475296

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-10 Duplicate** Matrix: Water Date Received:12.05.13 11.40

Lab Sample Id: 475296-007 Date Collected: 12.04.13 16.30

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P

Tech: BLF % Moisture:

Analyst: TIW Date Prep: 12.05.13 09.22

Seq Number: 929266

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**38.3**	5.00	0.104	mg/L	12.05.13 16.39		1
Nitrate as N	14797-55-8	**3.90**	1.00	0.0240	mg/L	12.05.13 16.39	X	1
Sulfate	14808-79-8	**380**	50.0	1.68	mg/L	12.09.13 15.24	DX	10

Certificate of Analytical Results 475296

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-20** Matrix: Water Date Received:12.05.13 11.40

Lab Sample Id: 475296-008 Date Collected: 12.04.13 14.17

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P

Tech: BLF % Moisture:

Analyst: TIW Date Prep: 12.05.13 09.22

Seq Number: 929266

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.4**	5.00	0.104	mg/L	12.05.13 15.47		1
Nitrate as N	14797-55-8	**0.809**	1.00	0.0240	mg/L	12.05.13 15.47	J	1
Sulfate	14808-79-8	**92.7**	25.0	0.840	mg/L	12.09.13 15.42	D	5

Certificate of Analytical Results 475296

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id:	**MW-21**	Matrix:	Water	Date Received:	12.05.13 11.40
Lab Sample Id:	475296-009	Date Collected:	12.04.13 15.22		

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A — Prep Method: SW9056P

Tech: BLF — % Moisture:

Analyst: TIW — Date Prep: 12.05.13 09.22

Seq Number: 929266

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.70**	5.00	0.104	mg/L	12.05.13 16.04		1
Nitrate as N	14797-55-8	**1.26**	1.00	0.0240	mg/L	12.05.13 16.04		1
Sulfate	14808-79-8	**119**	25.0	0.840	mg/L	12.09.13 16.17	D	5

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Environmental International Corporation

Bainbridge, GA Site

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 929266 Matrix: Water Date Prep: 12.05.13
MB Sample Id: 648029-1-BLK LCS Sample Id: 648029-1-BKS LCSD Sample Id: 648029-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.104	10.0	9.59	96	9.62	96	80-120	0	15	mg/L	12.05.13 12:17	
Nitrate as N	<0.0240	1.00	0.916	92	0.905	91	80-120	1	15	mg/L	12.05.13 12:17	
Sulfate	<0.168	10.0	9.60	96	9.24	92	80-120	4	15	mg/L	12.05.13 12:17	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 929365 Matrix: Water Date Prep: 12.09.13
MB Sample Id: 648073-1-BLK LCS Sample Id: 648073-1-BKS LCSD Sample Id: 648073-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.104	10.0	9.73	97	9.74	97	80-120	0	15	mg/L	12.09.13 12:29	
Nitrate as N	<0.0240	1.00	0.913	91	0.922	92	80-120	1	15	mg/L	12.09.13 12:29	
Sulfate	<0.168	10.0	9.38	94	9.32	93	80-120	1	15	mg/L	12.09.13 12:29	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 929266 Matrix: Water Date Prep: 12.05.13
Parent Sample Id: 475296-007 MD Sample Id: 475296-007 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	38.3	37.9	1	15	mg/L	12.05.13 19:15	
Nitrate as N	3.90	4.32	10	15	mg/L	12.05.13 19:15	
Sulfate	427	432	1	15	mg/L	12.05.13 19:15	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 929266 Matrix: Water Date Prep: 12.05.13
Parent Sample Id: 475296-007 MS Sample Id: 475296-007 S MSD Sample Id: 475296-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	38.3	10.0	48.9	106	49.1	108	80-120	0	15	mg/L	12.05.13 19:32	
Nitrate as N	3.90	1.00	5.20	130	5.21	131	80-120	0	15	mg/L	12.05.13 19:32	X
Sulfate	427	10.0	427	0	427	0	80-120	0	15	mg/L	12.05.13 19:32	X

XENCO Laboratories

☐ 3231 NW 7th Ave, Boca Raton, Fl 33431 561-447-7373
☐ 2505 Falkenburg Rd, Tampa, Fl 33569 813-620-2000
☒ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800
☐ Philadephia/New Jersey 610-955-5649
☐ South Carolina 803-543-8099 ☐ Other

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 266744 Page 1 of 1

Company-City EIC - Alpharetta **Phone** 770-772-7100

Lab Only: WO# 475296

Proj Name-Location ☒ Previously done at XENCO — GPA - Bainbridge **Project ID** 400007-45

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific.
It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Proj State: AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, TX, UT Other **Proj. Manager (PM)** Alan Sanders

e-Mail Results to ☐ PM or asanders@eicusa.com **Fax No:**

Invoice to ☐ Accounting ☒ Inc. Invoice with Final Report ☐ Invoice must have a P.O Bill to:

Quote/Pricing: **P.O No:** ☐ Call for P.O.

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA

QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:

Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)

Sampler Name Patrick Grayson Signature A. Patrick Grayson

	Sample ID	Sampling Date	Time	Depth ft/in/m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs	VOCs PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHs	FL PRO DRO GRO MA EPH MA VPH	SVOCs: Full-List DW BN&AE TCL PP Appdx-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	9056A Chloride, Nitrate, Sulfate	TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Sample Clean-ups are pre-approved as needed	
1	MW-2	12/4/2013	7:37		W		X	1	0	P	C										✓					1
2	MW-3	12/4/2013	8:49		W		X	1	0	P	C										✓					2
3	MW-12	12/4/2013	11:30		W		X	1	0	P	C										✓					3
4	MW-16	12/4/2013	13:28		W		X	1	0	P	C										✓					4
5	MW-17	12/4/2013	10:41		W		X	1	0	P	C										✓					5
6	MW-10	12/4/2013	16:20		W		X	1	0	P	C										✓					6
7	MW-10 Duplicate	12/4/2013	16:30		W		X	1	0	P	C										✓					7
8	MW-20	12/4/2013	14:17		W		X	1	0	P	C										✓					8
9	MW-21	12/4/2013	15:22		W		X	1	0	P	C										✓					9
10																										10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) A.P.G. A. Patrick Grayson	12/4/2013 17:05	2) [illegible]	12-05-13 11:40
3)		4)	
5)		6)	

Total Containers per COC: 9 Cooler Temp: 2.3°C 2.0°C

Upon signings this COC you accept XENCO terms and Conditions unless otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved.

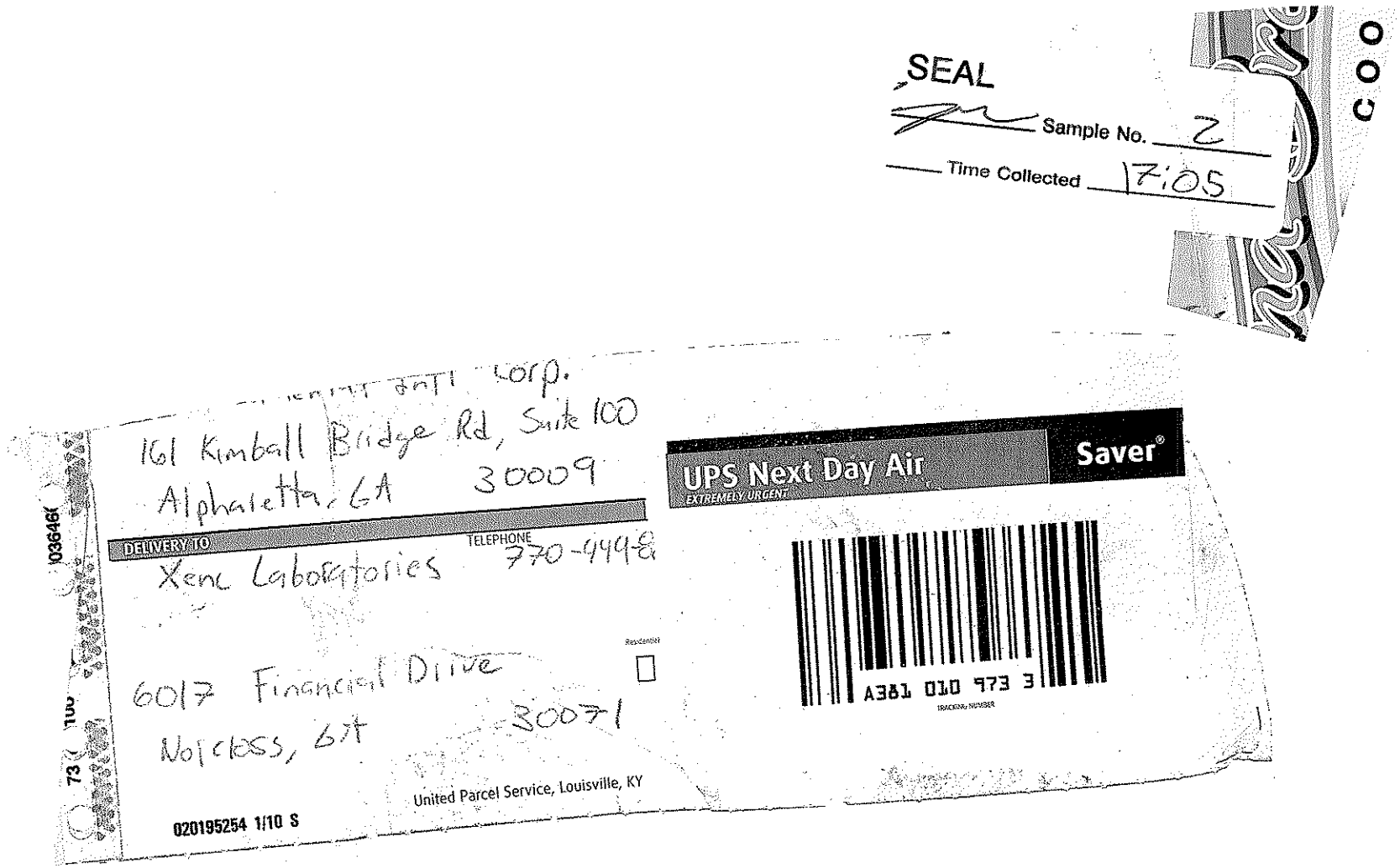
Preservatives: Various (**V**), HCl pH<2 (**H**), H2SO4 pH<2 (**S**), HNO3 pH<2 (**N**), Asbc Acid&NaOH (**A**), ZnAc&NaOH (**Z**), (Cool,<4C) (**C**), None (**NA**), See Label (**L**), Other (**O**) _____

Cont. Size: 4oz (**4**), 8oz (**8**), 32oz (**32**), 40ml VOA (**40**), 1L (**1**), 500ml (**5**), Tedlar Bag (**B**), Various (V), Other 125 mL **Cont. Type:** Glass Amb (**A**), Glass Clear (**C**), Plastic (**P**), Various (**V**)

Matrix: Air (**A**), Product (**P**), Solid(**S**), Water (**W**), Liquid (**L**)

Committed to Excellence in Service and Quality www.xenco.com

Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previoiusly negotiated under a fully executed client contract.


SEAL
Sample No. 2
Time Collected 7:05
Corp.
161 Kimball Bridge Rd, Suite 100
Alpharetta, GA 30009
DELIVERY TO
TELEPHONE 770-449-8
Xenc Laboratories
6017 Financial Drive
Norcross, GA 30071
Residential
UPS Next Day Air
EXTREMELY URGENT
Saver
A381 010 973 3
TRACKING NUMBER
United Parcel Service, Louisville, KY
020195254 1/10 S

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Florida Testing Services, LLC

Client: Environmental International Corporation

Date/ Time Received: 12/05/2013 11:40:00 AM

Work Order #: 475296

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : #61

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**
#5 Custody Seals intact on sample bottles?	**N/A**
#6 *Custody Seals Signed and dated?	**Yes**
#7 *Chain of Custody present?	**Yes**
#8 Sample instructions complete on Chain of Custody?	**Yes**
#9 Any missing/extra samples?	**No**
#10 Chain of Custody signed when relinquished/ received?	**Yes**
#11 Chain of Custody agrees with sample label(s)?	**Yes**
#12 Container label(s) legible and intact?	**Yes**
#13 Sample matrix/ properties agree with Chain of Custody?	**Yes**
#14 Samples in proper container/ bottle?	**Yes**
#15 Samples properly preserved?	**N/A**
#16 Sample container(s) intact?	**Yes**
#17 Sufficient sample amount for indicated test(s)?	**Yes**
#18 All samples received within hold time?	**Yes**
#19 Subcontract of sample(s)?	**No**
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	**N/A**
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	**N/A**
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:

Checklist completed by: Dario Lagunas Date: 12/05/2013

Checklist reviewed by: Eben Buchanan Date: 12/05/2013

Analytical Report 475358

for

Environmental International Corporation

Project Manager: Alan Sanders

GPA Bainbridge

400007

03-JAN-14

Collected By: Client

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-13-15-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Lakeland: Florida (E84098)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

XENCO Laboratories
Florida Testing Services, LLC

03-JAN-14

Project Manager: **Alan Sanders**
Environmental International Corporation
161 Kimball Bridge Road, Suite 100
Alpharetta, GA 30009

Reference: XENCO Report No(s): **475358**
GPA Bainbridge
Project Address: GA

Alan Sanders:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 475358. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 475358 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Tim Welch

Sample Cross Reference 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	12-03-13 09:31		475358-001
MW-1A	W	12-03-13 10:29		475358-002
MW-2	W	12-04-13 07:37		475358-003
MW-3	W	12-04-13 08:49		475358-004
MW-4U	W	12-03-13 11:31		475358-005
MW-5A	W	12-05-13 09:16		475358-006
MW-5D	W	12-05-13 08:22		475358-007
MW-6	W	12-05-13 12:33		475358-008
MW-7	W	12-03-13 13:51		475358-009
MW-8	W	12-05-13 10:13		475358-010
MW-10	W	12-04-13 16:20		475358-011
MW-11	W	12-03-13 07:59		475358-012
MW-12	W	12-04-13 11:30		475358-013
MW-14	W	12-05-13 11:41		475358-014
MW-16	W	12-04-13 13:28		475358-015
MW-17	W	12-04-13 10:41		475358-016
MW-18	W	12-03-13 15:38		475358-017
MW-19	W	12-03-13 14:52		475358-018
MW-20	W	12-04-13 14:17		475358-019
MW-21	W	12-04-13 16:22		475358-020
MW-22	W	12-05-13 15:35		475358-021
MW-10 Duplicate	W	12-04-13 16:30		475358-022
Equipment Blank	W	12-03-13 16:26		475358-023

Sample receipt non conformances and comments:

This revised report replace the report issued on December 16, 2013. The report was revised to include the results of the RSK analysis for sample MW-8, which were omitted in the original report.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-929480 Organochlorine Pesticides by SW-846 8081B
MS and/or MSD accuracy and/or precision fall outside of the control limits. LCS or LCS/LCSD recovered within limits. Matrix interference confirmed, no further action required

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-1**
Lab Sample Id : 475358-001

Matrix : Water
Date Collected : 12.03.13 09.31
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 929888

Prep Method: SW3010A
Date Prep: 12.13.13 11.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.904	mg/L	12.15.13 19.10		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 929666

Prep Method: SW9060P
Date Prep: 12.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	6.91	mg/L	12.11.13 08.38		1

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-1A**
Lab Sample Id : 475358-002

Matrix : Water
Date Collected : 12.03.13 10.29
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 929888

Prep Method: SW3010A
Date Prep: 12.13.13 11.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	1.54	mg/L	12.15.13 19.28		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 929666

Prep Method: SW9060P
Date Prep: 12.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	2.25	mg/L	12.11.13 10.54	B	1

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-2**
Lab Sample Id : 475358-003

Matrix : Water
Date Collected : 12.04.13 07.37
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 929888

Prep Method: SW3010A
Date Prep: 12.13.13 11.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.0998	mg/L	12.15.13 19.30		1

Analytical Method : Methane, Ethane, Ethene by Mod. RSK 175
Seq Number 929414

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Methane	74-82-8	0.00211	mg/L	12.06.13 17.51		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 929666

Prep Method: SW9060P
Date Prep: 12.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	1.60	mg/L	12.11.13 11.11	B	1

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-3**
Lab Sample Id : 475358-004

Matrix : Water
Date Collected : 12.04.13 08.49
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 929888

Prep Method: SW3010A
Date Prep: 12.13.13 11.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.00770	mg/L	12.15.13 19.32	J	1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 929666

Prep Method: SW9060P
Date Prep: 12.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	1.04	mg/L	12.11.13 11.28	B	1

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-4U**
Lab Sample Id : 475358-005

Matrix : Water
Date Collected : 12.03.13 11.31
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 929888

Prep Method: SW3010A
Date Prep: 12.13.13 11.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.270	mg/L	12.15.13 19.34		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 929666

Prep Method: SW9060P
Date Prep: 12.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	2.05	mg/L	12.11.13 11.44	B	1

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-5A**
Lab Sample Id : 475358-006

Matrix : Water
Date Collected : 12.05.13 09.16
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 929276

Prep Method: SW9056P
Date Prep: 12.06.13 13.34

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	47.5	mg/L	12.06.13 16.29		1
Nitrate as N	14797-55-8	21.1	mg/L	12.06.13 16.12	D	5
Sulfate	14808-79-8	69.3	mg/L	12.06.13 16.12	D	5

Analytical Method : Manganese by SW-846 6010C
Seq Number 929888

Prep Method: SW3010A
Date Prep: 12.13.13 11.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	3.11	mg/L	12.15.13 19.36		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 929480

Prep Method: SW3510C
Date Prep: 12.09.13 10.02

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Beta-BHC	319-85-7	10.2	ug/L	12.10.13 17.30	D	10
Dieldrin	60-57-1	5.93	ug/L	12.10.13 17.30	D	10

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 929480

Prep Method: SW3510C
Date Prep: 12.09.13 11.42

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.488	ug/L	12.10.13 21.22		1
Delta-BHC	319-86-8	1.24	ug/L	12.10.13 21.22		1
Endrin Ketone	53494-70-5	0.872	ug/L	12.10.13 21.22		1
Gamma-BHC (Lindane)	58-89-9	0.426	ug/L	12.10.13 21.22		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 929666

Prep Method: SW9060P
Date Prep: 12.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	2.01	mg/L	12.11.13 12.02	B	1

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-5D**
Lab Sample Id : 475358-007

Matrix : Water
Date Collected : 12.05.13 08.22
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 929276

Prep Method: SW9056P
Date Prep: 12.06.13 13.34

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	159	mg/L	12.06.13 15.37	D	5
Nitrate as N	14797-55-8	11.5	mg/L	12.06.13 15.37	D	5
Sulfate	14808-79-8	111	mg/L	12.06.13 15.37	D	5

Analytical Method : Manganese by SW-846 6010C
Seq Number 929888

Prep Method: SW3010A
Date Prep: 12.13.13 11.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	1.40	mg/L	12.15.13 19.43		1

Analytical Method : Methane, Ethane, Ethene by Mod. RSK 175
Seq Number 929414

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Methane	74-82-8	0.00465	mg/L	12.06.13 18.12		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 929480

Prep Method: SW3510C
Date Prep: 12.09.13 10.02

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Beta-BHC	319-85-7	11.3	ug/L	12.10.13 18.42	D	10
Delta-BHC	319-86-8	2.19	ug/L	12.10.13 18.42	D	10

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 929480

Prep Method: SW3510C
Date Prep: 12.09.13 11.45

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.597	ug/L	12.10.13 21.40		1
Dieldrin	60-57-1	0.116	ug/L	12.10.13 21.40		1
Gamma-BHC (Lindane)	58-89-9	0.779	ug/L	12.10.13 21.40		1

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-5D**
Lab Sample Id : 475358-007

Matrix : Water
Date Collected : 12.05.13 08.22
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 929666

Prep Method: SW9060P
Date Prep: 12.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	4.86	mg/L	12.11.13 12.32		1

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-6**
Lab Sample Id : 475358-008

Matrix : Water
Date Collected : 12.05.13 12.33
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 929276

Prep Method: SW9056P
Date Prep: 12.06.13 13.34

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	163	mg/L	12.06.13 19.42	D	5
Sulfate	14808-79-8	545	mg/L	12.06.13 19.24	D	25

Analytical Method : Manganese by SW-846 6010C
Seq Number 929888

Prep Method: SW3010A
Date Prep: 12.13.13 11.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	5.19	mg/L	12.15.13 19.45		1

Analytical Method : Methane, Ethane, Ethene by Mod. RSK 175
Seq Number 929414

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Methane	74-82-8	0.0589	mg/L	12.06.13 18.22		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 929480

Prep Method: SW3510C
Date Prep: 12.09.13 10.02

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Delta-BHC	319-86-8	2.71	ug/L	12.10.13 18.59	DX	10

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 929480

Prep Method: SW3510C
Date Prep: 12.09.13 11.48

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	1.68	ug/L	12.10.13 21.57		1
Beta-BHC	319-85-7	1.67	ug/L	12.10.13 21.57		1
Dieldrin	60-57-1	0.000522	ug/L	12.10.13 21.57	J	1
Gamma-BHC (Lindane)	58-89-9	0.0350	ug/L	12.10.13 21.57		1

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-6**
Lab Sample Id : 475358-008

Matrix : Water
Date Collected : 12.05.13 12.33
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 929666

Prep Method: SW9060P
Date Prep: 12.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	2.18	mg/L	12.11.13 13.22	B	1

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-7**
Lab Sample Id : 475358-009

Matrix : Water
Date Collected : 12.03.13 13.51
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 929888

Prep Method: SW3010A
Date Prep: 12.13.13 11.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	11.3	mg/L	12.15.13 19.47		1

Analytical Method : Methane, Ethane, Ethene by Mod. RSK 175
Seq Number 929414

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Methane	74-82-8	0.0615	mg/L	12.06.13 18.27		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 929480

Prep Method: SW3510C
Date Prep: 12.09.13 11.51

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.0227	ug/L	12.10.13 19.17		1
Beta-BHC	319-85-7	0.310	ug/L	12.10.13 19.17		1
Delta-BHC	319-86-8	0.0126	ug/L	12.10.13 19.17	J	1
Dieldrin	60-57-1	0.00184	ug/L	12.10.13 19.17	J	1
Gamma-BHC (Lindane)	58-89-9	0.0487	ug/L	12.10.13 19.17		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 929666

Prep Method: SW9060P
Date Prep: 12.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	3.37	mg/L	12.11.13 13.43	B	1

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-8**
Lab Sample Id : 475358-010

Matrix : Water
Date Collected : 12.05.13 10.13
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 929276

Prep Method: SW9056P
Date Prep: 12.06.13 13.34

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	45.4	mg/L	12.06.13 17.57		1
Nitrate as N	14797-55-8	19.8	mg/L	12.06.13 17.39	D	2
Sulfate	14808-79-8	75.7	mg/L	12.06.13 16.47	D	10

Analytical Method : Manganese by SW-846 6010C
Seq Number 929888

Prep Method: SW3010A
Date Prep: 12.13.13 11.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	1.88	mg/L	12.15.13 19.49		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 929480

Prep Method: SW3510C
Date Prep: 12.09.13 11.54

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.536	ug/L	12.10.13 22.15		1
Beta-BHC	319-85-7	1.77	ug/L	12.10.13 22.15		1
Delta-BHC	319-86-8	0.655	ug/L	12.10.13 22.15		1
Dieldrin	60-57-1	0.0101	ug/L	12.10.13 22.15	J	1
Gamma-BHC (Lindane)	58-89-9	0.383	ug/L	12.10.13 22.15		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 929666

Prep Method: SW9060P
Date Prep: 12.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	1.50	mg/L	12.11.13 14.02	B	1

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-10**
Lab Sample Id : 475358-011

Matrix : Water
Date Collected : 12.04.13 16.20
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 929888

Prep Method: SW3010A
Date Prep: 12.13.13 11.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.893	mg/L	12.15.13 19.51		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 929480

Prep Method: SW3510C
Date Prep: 12.09.13 10.02

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Beta-BHC	319-85-7	8.43	ug/L	12.10.13 19.53	D	10

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 929480

Prep Method: SW3510C
Date Prep: 12.09.13 11.57

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	3.12	ug/L	12.10.13 22.33		1
Delta-BHC	319-86-8	2.71	ug/L	12.10.13 22.33		1
Dieldrin	60-57-1	0.00725	ug/L	12.10.13 22.33	J	1
Gamma-BHC (Lindane)	58-89-9	1.45	ug/L	12.10.13 22.33		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 929666

Prep Method: SW9060P
Date Prep: 12.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	3.15	mg/L	12.11.13 14.19	BX	1

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-11**
Lab Sample Id : 475358-012

Matrix : Water
Date Collected : 12.03.13 07.59
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 929888

Prep Method: SW3010A
Date Prep: 12.13.13 11.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.0179	mg/L	12.15.13 19.53	J	1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 929666

Prep Method: SW9060P
Date Prep: 12.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	3.11	mg/L	12.11.13 14.57	B	1

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-12**
Lab Sample Id : 475358-013

Matrix : Water
Date Collected : 12.04.13 11.30
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 929888

Prep Method: SW3010A
Date Prep: 12.13.13 11.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.00460	mg/L	12.15.13 19.55	J	1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 929621

Prep Method: SW3510C
Date Prep: 12.09.13 17.15

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Beta-BHC	319-85-7	0.601	ug/L	12.11.13 12.45		10

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 929666

Prep Method: SW9060P
Date Prep: 12.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	1.23	mg/L	12.11.13 15.15	B	1

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-14**
Lab Sample Id : 475358-014

Matrix : Water
Date Collected : 12.05.13 11.41
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 929276

Prep Method: SW9056P
Date Prep: 12.06.13 13.34

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3.33	mg/L	12.06.13 18.14	J	1
Nitrate as N	14797-55-8	0.103	mg/L	12.06.13 18.14	J	1
Sulfate	14808-79-8	2.43	mg/L	12.06.13 18.14	J	1

Analytical Method : Manganese by SW-846 6010C
Seq Number 929888

Prep Method: SW3010A
Date Prep: 12.13.13 11.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.320	mg/L	12.15.13 19.57		1

Analytical Method : Methane, Ethane, Ethene by Mod. RSK 175
Seq Number 929414

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Methane	74-82-8	0.0367	mg/L	12.06.13 19.06		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 929666

Prep Method: SW9060P
Date Prep: 12.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	2.36	mg/L	12.11.13 15.31	B	1

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-16**
Lab Sample Id : 475358-015

Matrix : Water
Date Collected : 12.04.13 13.28
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 929888

Prep Method: SW3010A
Date Prep: 12.13.13 11.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.0296	mg/L	12.15.13 19.59	J	1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 929666

Prep Method: SW9060P
Date Prep: 12.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	1.51	mg/L	12.11.13 15.48	B	1

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-17**
Lab Sample Id : 475358-016

Matrix : Water
Date Collected : 12.04.13 10.41
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 929888

Prep Method: SW3010A
Date Prep: 12.13.13 11.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.116	mg/L	12.15.13 20.01		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 929621

Prep Method: SW3510C
Date Prep: 12.09.13 17.24

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Beta-BHC	319-85-7	0.264	ug/L	12.11.13 13.39		10

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 929666

Prep Method: SW9060P
Date Prep: 12.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	2.46	mg/L	12.11.13 16.05	B	1

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-18**
Lab Sample Id : 475358-017

Matrix : Water
Date Collected : 12.03.13 15.38
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 929888

Prep Method: SW3010A
Date Prep: 12.13.13 11.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	1.71	mg/L	12.15.13 20.09		1

Analytical Method : Methane, Ethane, Ethene by Mod. RSK 175
Seq Number 929414

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Methane	74-82-8	0.00211	mg/L	12.06.13 19.30		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 929621

Prep Method: SW3510C
Date Prep: 12.09.13 17.27

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Beta-BHC	319-85-7	0.463	ug/L	12.11.13 13.57		10

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 929666

Prep Method: SW9060P
Date Prep: 12.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	3.30	mg/L	12.11.13 16.44	B	1

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-19**
Lab Sample Id : 475358-018

Matrix : Water
Date Collected : 12.03.13 14.52
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 929888

Prep Method: SW3010A
Date Prep: 12.13.13 11.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.755	mg/L	12.15.13 20.11		1

Analytical Method : Methane, Ethane, Ethene by Mod. RSK 175
Seq Number 929419

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Methane	74-82-8	0.00204	mg/L	12.07.13 11.12		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 929666

Prep Method: SW9060P
Date Prep: 12.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	3.27	mg/L	12.11.13 17.03	B	1

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-20**
Lab Sample Id : 475358-019

Matrix : Water
Date Collected : 12.04.13 14.17
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 929888

Prep Method: SW3010A
Date Prep: 12.13.13 11.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.721	mg/L	12.15.13 20.13		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 929621

Prep Method: SW3510C
Date Prep: 12.09.13 17.33

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Beta-BHC	319-85-7	27.7	ug/L	12.12.13 13.17		20
Dieldrin	60-57-1	0.0188	ug/L	12.12.13 13.17	J	20

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 929666

Prep Method: SW9060P
Date Prep: 12.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	2.61	mg/L	12.11.13 17.21	B	1

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-21**
Lab Sample Id : 475358-020

Matrix : Water
Date Collected : 12.04.13 16.22
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 929888

Prep Method: SW3010A
Date Prep: 12.13.13 11.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.672	mg/L	12.15.13 20.15		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 929621

Prep Method: SW3510C
Date Prep: 12.09.13 17.36

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Beta-BHC	319-85-7	2.53	ug/L	12.11.13 14.51		10

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 929666

Prep Method: SW9060P
Date Prep: 12.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	2.21	mg/L	12.11.13 17.38	B	1

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-22**
Lab Sample Id : 475358-021

Matrix : Water
Date Collected : 12.05.13 15.35
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 929276

Prep Method: SW9056P
Date Prep: 12.06.13 13.34

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.29	mg/L	12.06.13 21.09		1
Nitrate as N	14797-55-8	2.24	mg/L	12.06.13 21.09		1
Sulfate	14808-79-8	216	mg/L	12.06.13 20.52	D	5

Analytical Method : Manganese by SW-846 6010C
Seq Number 929783

Prep Method: SW3010A
Date Prep: 12.12.13 10.23

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.600	mg/L	12.12.13 17.34		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 929621

Prep Method: SW3510C
Date Prep: 12.09.13 17.39

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.999	ug/L	12.11.13 15.45		20
Beta-BHC	319-85-7	37.4	ug/L	12.11.13 15.45	X	20
Delta-BHC	319-86-8	1.39	ug/L	12.11.13 15.45		20
Dieldrin	60-57-1	0.0304	ug/L	12.11.13 15.45	J	20
Gamma-BHC (Lindane)	58-89-9	0.489	ug/L	12.11.13 15.45		20

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 929669

Prep Method: SW9060P
Date Prep: 12.10.13 10.04

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	2.88	mg/L	12.13.13 18.39	BX	1

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-10 Duplicate**
Lab Sample Id : 475358-022

Matrix : Water
Date Collected : 12.04.13 16.30
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 929783

Prep Method: SW3010A
Date Prep: 12.12.13 10.23

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.846	mg/L	12.12.13 17.36		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 929621

Prep Method: SW3510C
Date Prep: 12.09.13 14.42

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Beta-BHC	319-85-7	9.27	ug/L	12.13.13 09.45	D	10

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 929621

Prep Method: SW3510C
Date Prep: 12.09.13 17.45

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.485	ug/L	12.13.13 10.21		1
Delta-BHC	319-86-8	0.461	ug/L	12.13.13 10.21		1
Dieldrin	60-57-1	0.00198	ug/L	12.13.13 10.21	J	1
Gamma-BHC (Lindane)	58-89-9	0.236	ug/L	12.13.13 10.21		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 929669

Prep Method: SW9060P
Date Prep: 12.10.13 10.04

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	3.68	mg/L	12.13.13 19.16		1

Hits Summary 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **Equipment Blank**
Lab Sample Id : 475358-023

Matrix : Water
Date Collected : 12.03.13 16.26
Date Received : 12.06.13 08.44

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 929893

Prep Method: SW3010A
Date Prep: 12.13.13 12.45

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.00220	mg/L	12.15.13 20.22	BJ	1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 929669

Prep Method: SW9060P
Date Prep: 12.10.13 10.04

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	1.10	mg/L	12.13.13 19.33	B	1

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GPA Bainbridge

Sample Id: **MW-1** Matrix: Water Date Received:12.06.13 08.44
Lab Sample Id: 475358-001 Date Collected: 12.03.13 09.31

Analytical Method: Total Organic Carbon by SW-846 9060 Prep Method: SW9060P
Tech: RKO % Moisture:
Analyst: RKO Date Prep: 12.10.13 10.00
Seq Number: 929666 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**6.91**	1.00	0.548	mg/L	12.11.13 08.38		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 12.13.13 11.55
Seq Number: 929888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.904**	0.0500	0.000900	mg/L	12.15.13 19.10		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 929414

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8		U	0.00200	0.00187	mg/L	12.06.13 17.39	U	1
Ethane	74-84-0		U	0.00200	0.00203	mg/L	12.06.13 17.39	U	1
Ethene	74-85-1		U	0.0020	0.0020	mg/L	12.06.13 17.39	U	1

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-1** Matrix: Water Date Received:12.06.13 08.44

Lab Sample Id: 475358-001 Date Collected: 12.03.13 09.31

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: COR % Moisture:

Analyst: KKO Date Prep: 12.09.13 11.27

Seq Number: 929480 SUB: E871002

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8		U	0.0206	0.00856	ug/L	12.10.13 14.49	U	1
4,4-DDE	72-55-9		U	0.0206	0.00835	ug/L	12.10.13 14.49	U	1
4,4-DDT	50-29-3		U	0.0206	0.0115	ug/L	12.10.13 14.49	U	1
Aldrin	309-00-2		U	0.0206	0.0105	ug/L	12.10.13 14.49	U	1
Alpha-BHC	319-84-6		U	0.0206	0.00763	ug/L	12.10.13 14.49	U	1
Alpha-Chlordane	5103-71-9		U	0.0206	0.00835	ug/L	12.10.13 14.49	U	1
Beta-BHC	319-85-7		U	0.0206	0.00722	ug/L	12.10.13 14.49	U	1
Delta-BHC	319-86-8		U	0.0206	0.00742	ug/L	12.10.13 14.49	U	1
Dieldrin	60-57-1		U	0.0206	0.000464	ug/L	12.10.13 14.49	U	1
Endosulfan I	959-98-8		U	0.0206	0.00814	ug/L	12.10.13 14.49	U	1
Endosulfan II	33213-65-9		U	0.0206	0.00928	ug/L	12.10.13 14.49	U	1
Endosulfan Sulfate	1031-07-8		U	0.0206	0.01000	ug/L	12.10.13 14.49	U	1
Endrin	72-20-8		U	0.0206	0.0116	ug/L	12.10.13 14.49	U	1
Endrin Aldehyde	7421-93-4		U	0.0206	0.00835	ug/L	12.10.13 14.49	U	1
Endrin Ketone	53494-70-5		U	0.0206	0.00742	ug/L	12.10.13 14.49	U	1
Gamma-BHC (Lindane)	58-89-9		U	0.0206	0.00722	ug/L	12.10.13 14.49	U	1
Gamma-Chlordane	5103-74-2		U	0.0206	0.00722	ug/L	12.10.13 14.49	U	1
Heptachlor	76-44-8		U	0.0206	0.0132	ug/L	12.10.13 14.49	U	1
Heptachlor Epoxide	1024-57-3		U	0.0206	0.00856	ug/L	12.10.13 14.49	U	1
Methoxychlor	72-43-5		U	0.0206	0.0108	ug/L	12.10.13 14.49	U	1
Chlordane	12789-03-6		U	0.515	0.00526	ug/L	12.10.13 14.49	U	1
Toxaphene	8001-35-2		U	0.515	0.00515	ug/L	12.10.13 14.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	79	%	18-126	12.10.13 14.49	
Decachlorobiphenyl	2051-24-3	93	%	15-136	12.10.13 14.49	

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GPA Bainbridge

Sample Id: **MW-1A** Matrix: Water Date Received:12.06.13 08.44
Lab Sample Id: 475358-002 Date Collected: 12.03.13 10.29

Analytical Method: Total Organic Carbon by SW-846 9060 Prep Method: SW9060P
Tech: RKO % Moisture:
Analyst: RKO Date Prep: 12.10.13 10.00
Seq Number: 929666 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**2.25**	1.00	0.548	mg/L	12.11.13 10.54	B	1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 12.13.13 11.55
Seq Number: 929888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**1.54**	0.0500	0.000900	mg/L	12.15.13 19.28		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 929414

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	12.06.13 17.43	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	12.06.13 17.43	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	12.06.13 17.43	U	1

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GPA Bainbridge

Sample Id: **MW-1A** Matrix: Water Date Received:12.06.13 08.44

Lab Sample Id: 475358-002 Date Collected: 12.03.13 10.29

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: COR % Moisture:

Analyst: KKO Date Prep: 12.09.13 11.30

Seq Number: 929480 SUB: E871002

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8		U	0.0203	0.00843	ug/L	12.10.13 15.07	U	1
4,4-DDE	72-55-9		U	0.0203	0.00822	ug/L	12.10.13 15.07	U	1
4,4-DDT	50-29-3		U	0.0203	0.0114	ug/L	12.10.13 15.07	U	1
Aldrin	309-00-2		U	0.0203	0.0104	ug/L	12.10.13 15.07	U	1
Alpha-BHC	319-84-6		U	0.0203	0.00751	ug/L	12.10.13 15.07	U	1
Alpha-Chlordane	5103-71-9		U	0.0203	0.00822	ug/L	12.10.13 15.07	U	1
Beta-BHC	319-85-7		U	0.0203	0.00711	ug/L	12.10.13 15.07	U	1
Delta-BHC	319-86-8		U	0.0203	0.00731	ug/L	12.10.13 15.07	U	1
Dieldrin	60-57-1		U	0.0203	0.000457	ug/L	12.10.13 15.07	U	1
Endosulfan I	959-98-8		U	0.0203	0.00802	ug/L	12.10.13 15.07	U	1
Endosulfan II	33213-65-9		U	0.0203	0.00914	ug/L	12.10.13 15.07	U	1
Endosulfan Sulfate	1031-07-8		U	0.0203	0.00985	ug/L	12.10.13 15.07	U	1
Endrin	72-20-8		U	0.0203	0.0115	ug/L	12.10.13 15.07	U	1
Endrin Aldehyde	7421-93-4		U	0.0203	0.00822	ug/L	12.10.13 15.07	U	1
Endrin Ketone	53494-70-5		U	0.0203	0.00731	ug/L	12.10.13 15.07	U	1
Gamma-BHC (Lindane)	58-89-9		U	0.0203	0.00711	ug/L	12.10.13 15.07	U	1
Gamma-Chlordane	5103-74-2		U	0.0203	0.00711	ug/L	12.10.13 15.07	U	1
Heptachlor	76-44-8		U	0.0203	0.0130	ug/L	12.10.13 15.07	U	1
Heptachlor Epoxide	1024-57-3		U	0.0203	0.00843	ug/L	12.10.13 15.07	U	1
Methoxychlor	72-43-5		U	0.0203	0.0107	ug/L	12.10.13 15.07	U	1
Chlordane	12789-03-6		U	0.508	0.00518	ug/L	12.10.13 15.07	U	1
Toxaphene	8001-35-2		U	0.508	0.00508	ug/L	12.10.13 15.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	67	%	18-126	12.10.13 15.07	
Decachlorobiphenyl	2051-24-3	88	%	15-136	12.10.13 15.07	

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GPA Bainbridge

Sample Id: **MW-2** Matrix: Water Date Received:12.06.13 08.44
Lab Sample Id: 475358-003 Date Collected: 12.04.13 07.37

Analytical Method: Total Organic Carbon by SW-846 9060 Prep Method: SW9060P
Tech: RKO % Moisture:
Analyst: RKO Date Prep: 12.10.13 10.00
Seq Number: 929666 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.60**	1.00	0.548	mg/L	12.11.13 11.11	B	1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 12.13.13 11.55
Seq Number: 929888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.0998**	0.0500	0.000900	mg/L	12.15.13 19.30		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 929414

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	**0.00211**	0.00200	0.00187	mg/L	12.06.13 17.51		1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	12.06.13 17.51	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	12.06.13 17.51	U	1

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Sample Id: **MW-2** Matrix: Water Date Received:12.06.13 08.44

Lab Sample Id: 475358-003 Date Collected: 12.04.13 07.37

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: COR % Moisture:

Analyst: KKO Date Prep: 12.09.13 11.33

Seq Number: 929480 SUB: E871002

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8		U	0.0203	0.00843	ug/L	12.10.13 15.25	U	1
4,4-DDE	72-55-9		U	0.0203	0.00822	ug/L	12.10.13 15.25	U	1
4,4-DDT	50-29-3		U	0.0203	0.0114	ug/L	12.10.13 15.25	U	1
Aldrin	309-00-2		U	0.0203	0.0104	ug/L	12.10.13 15.25	U	1
Alpha-BHC	319-84-6		U	0.0203	0.00751	ug/L	12.10.13 15.25	U	1
Alpha-Chlordane	5103-71-9		U	0.0203	0.00822	ug/L	12.10.13 15.25	U	1
Beta-BHC	319-85-7		U	0.0203	0.00711	ug/L	12.10.13 15.25	U	1
Delta-BHC	319-86-8		U	0.0203	0.00731	ug/L	12.10.13 15.25	U	1
Dieldrin	60-57-1		U	0.0203	0.000457	ug/L	12.10.13 15.25	U	1
Endosulfan I	959-98-8		U	0.0203	0.00802	ug/L	12.10.13 15.25	U	1
Endosulfan II	33213-65-9		U	0.0203	0.00914	ug/L	12.10.13 15.25	U	1
Endosulfan Sulfate	1031-07-8		U	0.0203	0.00985	ug/L	12.10.13 15.25	U	1
Endrin	72-20-8		U	0.0203	0.0115	ug/L	12.10.13 15.25	U	1
Endrin Aldehyde	7421-93-4		U	0.0203	0.00822	ug/L	12.10.13 15.25	U	1
Endrin Ketone	53494-70-5		U	0.0203	0.00731	ug/L	12.10.13 15.25	U	1
Gamma-BHC (Lindane)	58-89-9		U	0.0203	0.00711	ug/L	12.10.13 15.25	U	1
Gamma-Chlordane	5103-74-2		U	0.0203	0.00711	ug/L	12.10.13 15.25	U	1
Heptachlor	76-44-8		U	0.0203	0.0130	ug/L	12.10.13 15.25	U	1
Heptachlor Epoxide	1024-57-3		U	0.0203	0.00843	ug/L	12.10.13 15.25	U	1
Methoxychlor	72-43-5		U	0.0203	0.0107	ug/L	12.10.13 15.25	U	1
Chlordane	12789-03-6		U	0.508	0.00518	ug/L	12.10.13 15.25	U	1
Toxaphene	8001-35-2		U	0.508	0.00508	ug/L	12.10.13 15.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	68	%	18-126	12.10.13 15.25	
Decachlorobiphenyl	2051-24-3	79	%	15-136	12.10.13 15.25	

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Sample Id: **MW-3** Matrix: Water Date Received:12.06.13 08.44
Lab Sample Id: 475358-004 Date Collected: 12.04.13 08.49

Analytical Method: Total Organic Carbon by SW-846 9060 Prep Method: SW9060P
Tech: RKO % Moisture:
Analyst: RKO Date Prep: 12.10.13 10.00
Seq Number: 929666 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.04**	1.00	0.548	mg/L	12.11.13 11.28	B	1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 12.13.13 11.55
Seq Number: 929888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.00770**	0.0500	0.000900	mg/L	12.15.13 19.32	J	1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 929414

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8		U	0.00200	0.00187	mg/L	12.06.13 17.56	U	1
Ethane	74-84-0		U	0.00200	0.00203	mg/L	12.06.13 17.56	U	1
Ethene	74-85-1		U	0.0020	0.0020	mg/L	12.06.13 17.56	U	1

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Sample Id: **MW-3** Matrix: Water Date Received:12.06.13 08.44

Lab Sample Id: 475358-004 Date Collected: 12.04.13 08.49

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: COR % Moisture:

Analyst: KKO Date Prep: 12.09.13 11.36

Seq Number: 929480 SUB: E871002

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8		U	0.0235	0.00976	ug/L	12.10.13 15.43	U	1
4,4-DDE	72-55-9		U	0.0235	0.00953	ug/L	12.10.13 15.43	U	1
4,4-DDT	50-29-3		U	0.0235	0.0132	ug/L	12.10.13 15.43	U	1
Aldrin	309-00-2		U	0.0235	0.0120	ug/L	12.10.13 15.43	U	1
Alpha-BHC	319-84-6		U	0.0235	0.00871	ug/L	12.10.13 15.43	U	1
Alpha-Chlordane	5103-71-9		U	0.0235	0.00953	ug/L	12.10.13 15.43	U	1
Beta-BHC	319-85-7		U	0.0235	0.00824	ug/L	12.10.13 15.43	U	1
Delta-BHC	319-86-8		U	0.0235	0.00847	ug/L	12.10.13 15.43	U	1
Dieldrin	60-57-1		U	0.0235	0.000529	ug/L	12.10.13 15.43	U	1
Endosulfan I	959-98-8		U	0.0235	0.00929	ug/L	12.10.13 15.43	U	1
Endosulfan II	33213-65-9		U	0.0235	0.0106	ug/L	12.10.13 15.43	U	1
Endosulfan Sulfate	1031-07-8		U	0.0235	0.0114	ug/L	12.10.13 15.43	U	1
Endrin	72-20-8		U	0.0235	0.0133	ug/L	12.10.13 15.43	U	1
Endrin Aldehyde	7421-93-4		U	0.0235	0.00953	ug/L	12.10.13 15.43	U	1
Endrin Ketone	53494-70-5		U	0.0235	0.00847	ug/L	12.10.13 15.43	U	1
Gamma-BHC (Lindane)	58-89-9		U	0.0235	0.00824	ug/L	12.10.13 15.43	U	1
Gamma-Chlordane	5103-74-2		U	0.0235	0.00824	ug/L	12.10.13 15.43	U	1
Heptachlor	76-44-8		U	0.0235	0.0151	ug/L	12.10.13 15.43	U	1
Heptachlor Epoxide	1024-57-3		U	0.0235	0.00976	ug/L	12.10.13 15.43	U	1
Methoxychlor	72-43-5		U	0.0235	0.0124	ug/L	12.10.13 15.43	U	1
Chlordane	12789-03-6		U	0.588	0.00600	ug/L	12.10.13 15.43	U	1
Toxaphene	8001-35-2		U	0.588	0.00588	ug/L	12.10.13 15.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	87	%	18-126	12.10.13 15.43	
Decachlorobiphenyl	2051-24-3	94	%	15-136	12.10.13 15.43	

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Sample Id: **MW-4U** Matrix: Water Date Received:12.06.13 08.44
Lab Sample Id: 475358-005 Date Collected: 12.03.13 11.31

Analytical Method: Total Organic Carbon by SW-846 9060 Prep Method: SW9060P
Tech: RKO % Moisture:
Analyst: RKO Date Prep: 12.10.13 10.00
Seq Number: 929666 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**2.05**	1.00	0.548	mg/L	12.11.13 11.44	B	1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 12.13.13 11.55
Seq Number: 929888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.270**	0.0500	0.000900	mg/L	12.15.13 19.34		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 929414

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8		U	0.00200	0.00187	mg/L	12.06.13 18.01	U	1
Ethane	74-84-0		U	0.00200	0.00203	mg/L	12.06.13 18.01	U	1
Ethene	74-85-1		U	0.0020	0.0020	mg/L	12.06.13 18.01	U	1

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Sample Id: **MW-4U** Matrix: Water Date Received:12.06.13 08.44

Lab Sample Id: 475358-005 Date Collected: 12.03.13 11.31

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: COR % Moisture:

Analyst: KKO Date Prep: 12.09.13 11.39

Seq Number: 929480 SUB: E871002

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8		U	0.0222	0.00922	ug/L	12.10.13 16.01	U	1
4,4-DDE	72-55-9		U	0.0222	0.00900	ug/L	12.10.13 16.01	U	1
4,4-DDT	50-29-3		U	0.0222	0.0124	ug/L	12.10.13 16.01	U	1
Aldrin	309-00-2		U	0.0222	0.0113	ug/L	12.10.13 16.01	U	1
Alpha-BHC	319-84-6		U	0.0222	0.00822	ug/L	12.10.13 16.01	U	1
Alpha-Chlordane	5103-71-9		U	0.0222	0.00900	ug/L	12.10.13 16.01	U	1
Beta-BHC	319-85-7		U	0.0222	0.00778	ug/L	12.10.13 16.01	U	1
Delta-BHC	319-86-8		U	0.0222	0.00800	ug/L	12.10.13 16.01	U	1
Dieldrin	60-57-1		U	0.0222	0.000500	ug/L	12.10.13 16.01	U	1
Endosulfan I	959-98-8		U	0.0222	0.00878	ug/L	12.10.13 16.01	U	1
Endosulfan II	33213-65-9		U	0.0222	0.01000	ug/L	12.10.13 16.01	U	1
Endosulfan Sulfate	1031-07-8		U	0.0222	0.0108	ug/L	12.10.13 16.01	U	1
Endrin	72-20-8		U	0.0222	0.0126	ug/L	12.10.13 16.01	U	1
Endrin Aldehyde	7421-93-4		U	0.0222	0.00900	ug/L	12.10.13 16.01	U	1
Endrin Ketone	53494-70-5		U	0.0222	0.00800	ug/L	12.10.13 16.01	U	1
Gamma-BHC (Lindane)	58-89-9		U	0.0222	0.00778	ug/L	12.10.13 16.01	U	1
Gamma-Chlordane	5103-74-2		U	0.0222	0.00778	ug/L	12.10.13 16.01	U	1
Heptachlor	76-44-8		U	0.0222	0.0142	ug/L	12.10.13 16.01	U	1
Heptachlor Epoxide	1024-57-3		U	0.0222	0.00922	ug/L	12.10.13 16.01	U	1
Methoxychlor	72-43-5		U	0.0222	0.0117	ug/L	12.10.13 16.01	U	1
Chlordane	12789-03-6		U	0.556	0.00567	ug/L	12.10.13 16.01	U	1
Toxaphene	8001-35-2		U	0.556	0.00556	ug/L	12.10.13 16.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	74	%	18-126	12.10.13 16.01	
Decachlorobiphenyl	2051-24-3	85	%	15-136	12.10.13 16.01	

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Sample Id: **MW-5A** Matrix: Water Date Received:12.06.13 08.44
Lab Sample Id: 475358-006 Date Collected: 12.05.13 09.16

Analytical Method: Total Organic Carbon by SW-846 9060 Prep Method: SW9060P
Tech: RKO % Moisture:
Analyst: RKO Date Prep: 12.10.13 10.00
Seq Number: 929666 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**2.01**	1.00	0.548	mg/L	12.11.13 12.02	B	1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: TIW % Moisture:
Analyst: TIW Date Prep: 12.06.13 13.34
Seq Number: 929276

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**47.5**	5.00	0.104	mg/L	12.06.13 16.29		1
Nitrate as N	14797-55-8	**21.1**	5.00	0.120	mg/L	12.06.13 16.12	D	5
Sulfate	14808-79-8	**69.3**	25.0	0.840	mg/L	12.06.13 16.12	D	5

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 12.13.13 11.55
Seq Number: 929888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**3.11**	0.0500	0.000900	mg/L	12.15.13 19.36		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 929414

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	12.06.13 18.06	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	12.06.13 18.06	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	12.06.13 18.06	U	1

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Sample Id: **MW-5A** Matrix: Water Date Received:12.06.13 08.44

Lab Sample Id: 475358-006 Date Collected: 12.05.13 09.16

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: COR % Moisture:

Analyst: KKO Date Prep: 12.09.13 11.42

Seq Number: 929480 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0222	0.00922	ug/L	12.10.13 21.22	U	1
4,4-DDE	72-55-9	U	0.0222	0.00900	ug/L	12.10.13 21.22	U	1
4,4-DDT	50-29-3	U	0.0222	0.0124	ug/L	12.10.13 21.22	U	1
Aldrin	309-00-2	U	0.0222	0.0113	ug/L	12.10.13 21.22	U	1
Alpha-BHC	319-84-6	**0.488**	0.0222	0.00822	ug/L	12.10.13 21.22		1
Alpha-Chlordane	5103-71-9	U	0.0222	0.00900	ug/L	12.10.13 21.22	U	1
Beta-BHC	319-85-7	**10.2**	0.200	0.0700	ug/L	12.10.13 17.30	D	10
Delta-BHC	319-86-8	**1.24**	0.0222	0.00800	ug/L	12.10.13 21.22		1
Dieldrin	60-57-1	**5.93**	0.200	0.00450	ug/L	12.10.13 17.30	D	10
Endosulfan I	959-98-8	U	0.0222	0.00878	ug/L	12.10.13 21.22	U	1
Endosulfan II	33213-65-9	U	0.0222	0.01000	ug/L	12.10.13 21.22	U	1
Endosulfan Sulfate	1031-07-8	U	0.0222	0.0108	ug/L	12.10.13 21.22	U	1
Endrin	72-20-8	U	0.0222	0.0126	ug/L	12.10.13 21.22	U	1
Endrin Aldehyde	7421-93-4	U	0.0222	0.00900	ug/L	12.10.13 21.22	U	1
Endrin Ketone	53494-70-5	**0.872**	0.0222	0.00800	ug/L	12.10.13 21.22		1
Gamma-BHC (Lindane)	58-89-9	**0.426**	0.0222	0.00778	ug/L	12.10.13 21.22		1
Gamma-Chlordane	5103-74-2	U	0.0222	0.00778	ug/L	12.10.13 21.22	U	1
Heptachlor	76-44-8	U	0.0222	0.0142	ug/L	12.10.13 21.22	U	1
Heptachlor Epoxide	1024-57-3	U	0.0222	0.00922	ug/L	12.10.13 21.22	U	1
Methoxychlor	72-43-5	U	0.0222	0.0117	ug/L	12.10.13 21.22	U	1
Chlordane	12789-03-6	U	0.556	0.00567	ug/L	12.10.13 21.22	U	1
Toxaphene	8001-35-2	U	0.556	0.00556	ug/L	12.10.13 21.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	91	%	18-126	12.10.13 21.22	
Decachlorobiphenyl	2051-24-3	99	%	15-136	12.10.13 21.22	

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Sample Id: **MW-5D** Matrix: Water Date Received:12.06.13 08.44
Lab Sample Id: 475358-007 Date Collected: 12.05.13 08.22

Analytical Method: Total Organic Carbon by SW-846 9060 Prep Method: SW9060P
Tech: RKO % Moisture:
Analyst: RKO Date Prep: 12.10.13 10.00
Seq Number: 929666 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**4.86**	1.00	0.548	mg/L	12.11.13 12.32		1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: TIW % Moisture:
Analyst: TIW Date Prep: 12.06.13 13.34
Seq Number: 929276

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**159**	25.0	0.520	mg/L	12.06.13 15.37	D	5
Nitrate as N	14797-55-8	**11.5**	5.00	0.120	mg/L	12.06.13 15.37	D	5
Sulfate	14808-79-8	**111**	25.0	0.840	mg/L	12.06.13 15.37	D	5

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 12.13.13 11.55
Seq Number: 929888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**1.40**	0.0500	0.000900	mg/L	12.15.13 19.43		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 929414

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	**0.00465**	0.00200	0.00187	mg/L	12.06.13 18.12		1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	12.06.13 18.12	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	12.06.13 18.12	U	1

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Sample Id: **MW-5D** Matrix: Water Date Received:12.06.13 08.44

Lab Sample Id: 475358-007 Date Collected: 12.05.13 08.22

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: COR % Moisture:

Analyst: KKO Date Prep: 12.09.13 11.45

Seq Number: 929480 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0235	0.00976	ug/L	12.10.13 21.40	U	1
4,4-DDE	72-55-9	U	0.0235	0.00953	ug/L	12.10.13 21.40	U	1
4,4-DDT	50-29-3	U	0.0235	0.0132	ug/L	12.10.13 21.40	U	1
Aldrin	309-00-2	U	0.0235	0.0120	ug/L	12.10.13 21.40	U	1
Alpha-BHC	319-84-6	**0.597**	0.0235	0.00871	ug/L	12.10.13 21.40		1
Alpha-Chlordane	5103-71-9	U	0.0235	0.00953	ug/L	12.10.13 21.40	U	1
Beta-BHC	319-85-7	**11.3**	0.200	0.0700	ug/L	12.10.13 18.42	D	10
Delta-BHC	319-86-8	**2.19**	0.200	0.0720	ug/L	12.10.13 18.42	D	10
Dieldrin	60-57-1	**0.116**	0.0235	0.000529	ug/L	12.10.13 21.40		1
Endosulfan I	959-98-8	U	0.0235	0.00929	ug/L	12.10.13 21.40	U	1
Endosulfan II	33213-65-9	U	0.0235	0.0106	ug/L	12.10.13 21.40	U	1
Endosulfan Sulfate	1031-07-8	U	0.0235	0.0114	ug/L	12.10.13 21.40	U	1
Endrin	72-20-8	U	0.0235	0.0133	ug/L	12.10.13 21.40	U	1
Endrin Aldehyde	7421-93-4	U	0.0235	0.00953	ug/L	12.10.13 21.40	U	1
Endrin Ketone	53494-70-5	U	0.0235	0.00847	ug/L	12.10.13 21.40	U	1
Gamma-BHC (Lindane)	58-89-9	**0.779**	0.0235	0.00824	ug/L	12.10.13 21.40		1
Gamma-Chlordane	5103-74-2	U	0.0235	0.00824	ug/L	12.10.13 21.40	U	1
Heptachlor	76-44-8	U	0.0235	0.0151	ug/L	12.10.13 21.40	U	1
Heptachlor Epoxide	1024-57-3	U	0.0235	0.00976	ug/L	12.10.13 21.40	U	1
Methoxychlor	72-43-5	U	0.0235	0.0124	ug/L	12.10.13 21.40	U	1
Chlordane	12789-03-6	U	0.588	0.00600	ug/L	12.10.13 21.40	U	1
Toxaphene	8001-35-2	U	0.588	0.00588	ug/L	12.10.13 21.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	86	%	18-126	12.10.13 21.40	
Decachlorobiphenyl	2051-24-3	71	%	15-136	12.10.13 21.40	

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GPA Bainbridge

Sample Id: **MW-6** Matrix: Water Date Received:12.06.13 08.44
Lab Sample Id: 475358-008 Date Collected: 12.05.13 12.33

Analytical Method: Total Organic Carbon by SW-846 9060 Prep Method: SW9060P
Tech: RKO % Moisture:
Analyst: RKO Date Prep: 12.10.13 10.00
Seq Number: 929666 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**2.18**	1.00	0.548	mg/L	12.11.13 13.22	B	1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: TIW % Moisture:
Analyst: TIW Date Prep: 12.06.13 13.34
Seq Number: 929276

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**163**	25.0	0.520	mg/L	12.06.13 19.42	D	5
Nitrate as N	14797-55-8	U	1.00	0.0240	mg/L	12.06.13 19.59	U	1
Sulfate	14808-79-8	**545**	125	4.20	mg/L	12.06.13 19.24	D	25

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 12.13.13 11.55
Seq Number: 929888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**5.19**	0.0500	0.000900	mg/L	12.15.13 19.45		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 929414

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	**0.0589**	0.00200	0.00187	mg/L	12.06.13 18.22		1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	12.06.13 18.22	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	12.06.13 18.22	U	1

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GPA Bainbridge

Sample Id: **MW-6** Matrix: Water Date Received:12.06.13 08.44

Lab Sample Id: 475358-008 Date Collected: 12.05.13 12.33

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: COR % Moisture:

Analyst: KKO Date Prep: 12.09.13 11.48

Seq Number: 929480 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0222	0.00922	ug/L	12.10.13 21.57	U	1
4,4-DDE	72-55-9	U	0.0222	0.00900	ug/L	12.10.13 21.57	U	1
4,4-DDT	50-29-3	U	0.0222	0.0124	ug/L	12.10.13 21.57	U	1
Aldrin	309-00-2	U	0.0222	0.0113	ug/L	12.10.13 21.57	U	1
Alpha-BHC	319-84-6	**1.68**	0.0222	0.00822	ug/L	12.10.13 21.57		1
Alpha-Chlordane	5103-71-9	U	0.0222	0.00900	ug/L	12.10.13 21.57	U	1
Beta-BHC	319-85-7	**1.67**	0.0222	0.00778	ug/L	12.10.13 21.57		1
Delta-BHC	319-86-8	**2.71**	0.200	0.0720	ug/L	12.10.13 18.59	DX	10
Dieldrin	60-57-1	**0.000522**	0.0222	0.000500	ug/L	12.10.13 21.57	J	1
Endosulfan I	959-98-8	U	0.0222	0.00878	ug/L	12.10.13 21.57	U	1
Endosulfan II	33213-65-9	U	0.0222	0.01000	ug/L	12.10.13 21.57	U	1
Endosulfan Sulfate	1031-07-8	U	0.0222	0.0108	ug/L	12.10.13 21.57	U	1
Endrin	72-20-8	U	0.0222	0.0126	ug/L	12.10.13 21.57	U	1
Endrin Aldehyde	7421-93-4	U	0.0222	0.00900	ug/L	12.10.13 21.57	U	1
Endrin Ketone	53494-70-5	U	0.0222	0.00800	ug/L	12.10.13 21.57	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0350**	0.0222	0.00778	ug/L	12.10.13 21.57		1
Gamma-Chlordane	5103-74-2	U	0.0222	0.00778	ug/L	12.10.13 21.57	U	1
Heptachlor	76-44-8	U	0.0222	0.0142	ug/L	12.10.13 21.57	U	1
Heptachlor Epoxide	1024-57-3	U	0.0222	0.00922	ug/L	12.10.13 21.57	U	1
Methoxychlor	72-43-5	U	0.0222	0.0117	ug/L	12.10.13 21.57	U	1
Chlordane	12789-03-6	U	0.556	0.00567	ug/L	12.10.13 21.57	U	1
Toxaphene	8001-35-2	U	0.556	0.00556	ug/L	12.10.13 21.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	91	%	18-126	12.10.13 21.57	
Decachlorobiphenyl	2051-24-3	88	%	15-136	12.10.13 21.57	

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GPA Bainbridge

Sample Id: **MW-7** Matrix: Water Date Received:12.06.13 08.44
Lab Sample Id: 475358-009 Date Collected: 12.03.13 13.51

Analytical Method: Total Organic Carbon by SW-846 9060 Prep Method: SW9060P
Tech: RKO % Moisture:
Analyst: RKO Date Prep: 12.10.13 10.00
Seq Number: 929666 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**3.37**	1.00	0.548	mg/L	12.11.13 13.43	B	1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 12.13.13 11.55
Seq Number: 929888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**11.3**	0.0500	0.000900	mg/L	12.15.13 19.47		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 929414

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	**0.0615**	0.00200	0.00187	mg/L	12.06.13 18.27		1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	12.06.13 18.27	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	12.06.13 18.27	U	1

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Sample Id: **MW-7** Matrix: Water Date Received:12.06.13 08.44

Lab Sample Id: 475358-009 Date Collected: 12.03.13 13.51

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: COR % Moisture:

Analyst: KKO Date Prep: 12.09.13 11.51

Seq Number: 929480 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0222	0.00922	ug/L	12.10.13 19.17	U	1
4,4-DDE	72-55-9	U	0.0222	0.00900	ug/L	12.10.13 19.17	U	1
4,4-DDT	50-29-3	U	0.0222	0.0124	ug/L	12.10.13 19.17	U	1
Aldrin	309-00-2	U	0.0222	0.0113	ug/L	12.10.13 19.17	U	1
Alpha-BHC	319-84-6	**0.0227**	0.0222	0.00822	ug/L	12.10.13 19.17		1
Alpha-Chlordane	5103-71-9	U	0.0222	0.00900	ug/L	12.10.13 19.17	U	1
Beta-BHC	319-85-7	**0.310**	0.0222	0.00778	ug/L	12.10.13 19.17		1
Delta-BHC	319-86-8	**0.0126**	0.0222	0.00800	ug/L	12.10.13 19.17	J	1
Dieldrin	60-57-1	**0.00184**	0.0222	0.000500	ug/L	12.10.13 19.17	J	1
Endosulfan I	959-98-8	U	0.0222	0.00878	ug/L	12.10.13 19.17	U	1
Endosulfan II	33213-65-9	U	0.0222	0.01000	ug/L	12.10.13 19.17	U	1
Endosulfan Sulfate	1031-07-8	U	0.0222	0.0108	ug/L	12.10.13 19.17	U	1
Endrin	72-20-8	U	0.0222	0.0126	ug/L	12.10.13 19.17	U	1
Endrin Aldehyde	7421-93-4	U	0.0222	0.00900	ug/L	12.10.13 19.17	U	1
Endrin Ketone	53494-70-5	U	0.0222	0.00800	ug/L	12.10.13 19.17	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0487**	0.0222	0.00778	ug/L	12.10.13 19.17		1
Gamma-Chlordane	5103-74-2	U	0.0222	0.00778	ug/L	12.10.13 19.17	U	1
Heptachlor	76-44-8	U	0.0222	0.0142	ug/L	12.10.13 19.17	U	1
Heptachlor Epoxide	1024-57-3	U	0.0222	0.00922	ug/L	12.10.13 19.17	U	1
Methoxychlor	72-43-5	U	0.0222	0.0117	ug/L	12.10.13 19.17	U	1
Chlordane	12789-03-6	U	0.556	0.00567	ug/L	12.10.13 19.17	U	1
Toxaphene	8001-35-2	U	0.556	0.00556	ug/L	12.10.13 19.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	49	%	18-126	12.10.13 19.17	
Decachlorobiphenyl	2051-24-3	70	%	15-136	12.10.13 19.17	

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Sample Id: **MW-8** Matrix: Water Date Received:12.06.13 08.44
Lab Sample Id: 475358-010 Date Collected: 12.05.13 10.13

Analytical Method: Total Organic Carbon by SW-846 9060 Prep Method: SW9060P
Tech: RKO % Moisture:
Analyst: RKO Date Prep: 12.10.13 10.00
Seq Number: 929666 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.50**	1.00	0.548	mg/L	12.11.13 14.02	B	1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: TIW % Moisture:
Analyst: TIW Date Prep: 12.06.13 13.34
Seq Number: 929276

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**45.4**	5.00	0.104	mg/L	12.06.13 17.57		1
Nitrate as N	14797-55-8	**19.8**	2.00	0.0480	mg/L	12.06.13 17.39	D	2
Sulfate	14808-79-8	**75.7**	50.0	1.68	mg/L	12.06.13 16.47	D	10

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 12.13.13 11.55
Seq Number: 929888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**1.88**	0.0500	0.000900	mg/L	12.15.13 19.49		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 929414

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	12.06.13 18.32	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	12.06.13 18.32	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	12.06.13 18.32	U	1

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Sample Id: **MW-8** Matrix: Water Date Received:12.06.13 08.44

Lab Sample Id: 475358-010 Date Collected: 12.05.13 10.13

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: COR % Moisture:

Analyst: KKO Date Prep: 12.09.13 11.54

Seq Number: 929480 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0222	0.00922	ug/L	12.10.13 22.15	U	1
4,4-DDE	72-55-9	U	0.0222	0.00900	ug/L	12.10.13 22.15	U	1
4,4-DDT	50-29-3	U	0.0222	0.0124	ug/L	12.10.13 22.15	U	1
Aldrin	309-00-2	U	0.0222	0.0113	ug/L	12.10.13 22.15	U	1
Alpha-BHC	319-84-6	**0.536**	0.0222	0.00822	ug/L	12.10.13 22.15		1
Alpha-Chlordane	5103-71-9	U	0.0222	0.00900	ug/L	12.10.13 22.15	U	1
Beta-BHC	319-85-7	**1.77**	0.0222	0.00778	ug/L	12.10.13 22.15		1
Delta-BHC	319-86-8	**0.655**	0.0222	0.00800	ug/L	12.10.13 22.15		1
Dieldrin	60-57-1	**0.0101**	0.0222	0.000500	ug/L	12.10.13 22.15	J	1
Endosulfan I	959-98-8	U	0.0222	0.00878	ug/L	12.10.13 22.15	U	1
Endosulfan II	33213-65-9	U	0.0222	0.01000	ug/L	12.10.13 22.15	U	1
Endosulfan Sulfate	1031-07-8	U	0.0222	0.0108	ug/L	12.10.13 22.15	U	1
Endrin	72-20-8	U	0.0222	0.0126	ug/L	12.10.13 22.15	U	1
Endrin Aldehyde	7421-93-4	U	0.0222	0.00900	ug/L	12.10.13 22.15	U	1
Endrin Ketone	53494-70-5	U	0.0222	0.00800	ug/L	12.10.13 22.15	U	1
Gamma-BHC (Lindane)	58-89-9	**0.383**	0.0222	0.00778	ug/L	12.10.13 22.15		1
Gamma-Chlordane	5103-74-2	U	0.0222	0.00778	ug/L	12.10.13 22.15	U	1
Heptachlor	76-44-8	U	0.0222	0.0142	ug/L	12.10.13 22.15	U	1
Heptachlor Epoxide	1024-57-3	U	0.0222	0.00922	ug/L	12.10.13 22.15	U	1
Methoxychlor	72-43-5	U	0.0222	0.0117	ug/L	12.10.13 22.15	U	1
Chlordane	12789-03-6	U	0.556	0.00567	ug/L	12.10.13 22.15	U	1
Toxaphene	8001-35-2	U	0.556	0.00556	ug/L	12.10.13 22.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	117	%	18-126	12.10.13 22.15	
Decachlorobiphenyl	2051-24-3	136	%	15-136	12.10.13 22.15	

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Sample Id: **MW-10** Matrix: Water Date Received:12.06.13 08.44
Lab Sample Id: 475358-011 Date Collected: 12.04.13 16.20

Analytical Method: Total Organic Carbon by SW-846 9060 Prep Method: SW9060P
Tech: RKO % Moisture:
Analyst: RKO Date Prep: 12.10.13 10.00
Seq Number: 929666 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**3.15**	1.00	0.548	mg/L	12.11.13 14.19	BX	1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 12.13.13 11.55
Seq Number: 929888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.893**	0.0500	0.000900	mg/L	12.15.13 19.51		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 929414

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	12.06.13 18.38	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	12.06.13 18.38	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	12.06.13 18.38	U	1

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Sample Id: **MW-10** Matrix: Water Date Received:12.06.13 08.44

Lab Sample Id: 475358-011 Date Collected: 12.04.13 16.20

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: COR % Moisture:

Analyst: KKO Date Prep: 12.09.13 11.57

Seq Number: 929480 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.0415	ug/L	12.10.13 22.33	U	1
4,4-DDE	72-55-9	U	0.100	0.0405	ug/L	12.10.13 22.33	U	1
4,4-DDT	50-29-3	U	0.100	0.0560	ug/L	12.10.13 22.33	U	1
Aldrin	309-00-2	U	0.100	0.0510	ug/L	12.10.13 22.33	U	1
Alpha-BHC	319-84-6	**3.12**	0.100	0.0370	ug/L	12.10.13 22.33		1
Alpha-Chlordane	5103-71-9	U	0.100	0.0405	ug/L	12.10.13 22.33	U	1
Beta-BHC	319-85-7	**8.43**	0.200	0.0700	ug/L	12.10.13 19.53	D	10
Delta-BHC	319-86-8	**2.71**	0.100	0.0360	ug/L	12.10.13 22.33		1
Dieldrin	60-57-1	**0.00725**	0.100	0.00225	ug/L	12.10.13 22.33	J	1
Endosulfan I	959-98-8	U	0.100	0.0395	ug/L	12.10.13 22.33	U	1
Endosulfan II	33213-65-9	U	0.100	0.0450	ug/L	12.10.13 22.33	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.0485	ug/L	12.10.13 22.33	U	1
Endrin	72-20-8	U	0.100	0.0565	ug/L	12.10.13 22.33	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.0405	ug/L	12.10.13 22.33	U	1
Endrin Ketone	53494-70-5	U	0.100	0.0360	ug/L	12.10.13 22.33	U	1
Gamma-BHC (Lindane)	58-89-9	**1.45**	0.100	0.0350	ug/L	12.10.13 22.33		1
Gamma-Chlordane	5103-74-2	U	0.100	0.0350	ug/L	12.10.13 22.33	U	1
Heptachlor	76-44-8	U	0.100	0.0640	ug/L	12.10.13 22.33	U	1
Heptachlor Epoxide	1024-57-3	U	0.100	0.0415	ug/L	12.10.13 22.33	U	1
Methoxychlor	72-43-5	U	0.100	0.0525	ug/L	12.10.13 22.33	U	1
Chlordane	12789-03-6	U	2.50	0.0255	ug/L	12.10.13 22.33	U	1
Toxaphene	8001-35-2	U	2.50	0.0250	ug/L	12.10.13 22.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	95	%	18-126	12.10.13 22.33	
Decachlorobiphenyl	2051-24-3	115	%	15-136	12.10.13 22.33	

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Sample Id: **MW-11** Matrix: Water Date Received:12.06.13 08.44
Lab Sample Id: 475358-012 Date Collected: 12.03.13 07.59

Analytical Method: Total Organic Carbon by SW-846 9060 Prep Method: SW9060P
Tech: RKO % Moisture:
Analyst: RKO Date Prep: 12.10.13 10.00
Seq Number: 929666 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**3.11**	1.00	0.548	mg/L	12.11.13 14.57	B	1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 12.13.13 11.55
Seq Number: 929888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.0179**	0.0500	0.000900	mg/L	12.15.13 19.53	J	1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 929414

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8		U	0.00200	0.00187	mg/L	12.06.13 18.47	U	1
Ethane	74-84-0		U	0.00200	0.00203	mg/L	12.06.13 18.47	U	1
Ethene	74-85-1		U	0.0020	0.0020	mg/L	12.06.13 18.47	U	1

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GPA Bainbridge

Sample Id: **MW-11** Matrix: Water Date Received:12.06.13 08.44

Lab Sample Id: 475358-012 Date Collected: 12.03.13 07.59

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: COR % Moisture:

Analyst: KKO Date Prep: 12.09.13 12.00

Seq Number: 929480 SUB: E871002

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8		U	0.0204	0.00847	ug/L	12.10.13 20.11	U	1
4,4-DDE	72-55-9		U	0.0204	0.00827	ug/L	12.10.13 20.11	U	1
4,4-DDT	50-29-3		U	0.0204	0.0114	ug/L	12.10.13 20.11	U	1
Aldrin	309-00-2		U	0.0204	0.0104	ug/L	12.10.13 20.11	U	1
Alpha-BHC	319-84-6		U	0.0204	0.00755	ug/L	12.10.13 20.11	U	1
Alpha-Chlordane	5103-71-9		U	0.0204	0.00827	ug/L	12.10.13 20.11	U	1
Beta-BHC	319-85-7		U	0.0204	0.00714	ug/L	12.10.13 20.11	U	1
Delta-BHC	319-86-8		U	0.0204	0.00735	ug/L	12.10.13 20.11	U	1
Dieldrin	60-57-1		U	0.0204	0.000459	ug/L	12.10.13 20.11	U	1
Endosulfan I	959-98-8		U	0.0204	0.00806	ug/L	12.10.13 20.11	U	1
Endosulfan II	33213-65-9		U	0.0204	0.00918	ug/L	12.10.13 20.11	U	1
Endosulfan Sulfate	1031-07-8		U	0.0204	0.00990	ug/L	12.10.13 20.11	U	1
Endrin	72-20-8		U	0.0204	0.0115	ug/L	12.10.13 20.11	U	1
Endrin Aldehyde	7421-93-4		U	0.0204	0.00827	ug/L	12.10.13 20.11	U	1
Endrin Ketone	53494-70-5		U	0.0204	0.00735	ug/L	12.10.13 20.11	U	1
Gamma-BHC (Lindane)	58-89-9		U	0.0204	0.00714	ug/L	12.10.13 20.11	U	1
Gamma-Chlordane	5103-74-2		U	0.0204	0.00714	ug/L	12.10.13 20.11	U	1
Heptachlor	76-44-8		U	0.0204	0.0131	ug/L	12.10.13 20.11	U	1
Heptachlor Epoxide	1024-57-3		U	0.0204	0.00847	ug/L	12.10.13 20.11	U	1
Methoxychlor	72-43-5		U	0.0204	0.0107	ug/L	12.10.13 20.11	U	1
Chlordane	12789-03-6		U	0.510	0.00520	ug/L	12.10.13 20.11	U	1
Toxaphene	8001-35-2		U	0.510	0.00510	ug/L	12.10.13 20.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	74	%	18-126	12.10.13 20.11	
Decachlorobiphenyl	2051-24-3	85	%	15-136	12.10.13 20.11	

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Sample Id: **MW-12** Matrix: Water Date Received:12.06.13 08.44
Lab Sample Id: 475358-013 Date Collected: 12.04.13 11.30

Analytical Method: Total Organic Carbon by SW-846 9060 Prep Method: SW9060P
Tech: RKO % Moisture:
Analyst: RKO Date Prep: 12.10.13 10.00
Seq Number: 929666 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.23**	1.00	0.548	mg/L	12.11.13 15.15	B	1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 12.13.13 11.55
Seq Number: 929888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.00460**	0.0500	0.000900	mg/L	12.15.13 19.55	J	1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 929414

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8		U	0.00200	0.00187	mg/L	12.06.13 18.56	U	1
Ethane	74-84-0		U	0.00200	0.00203	mg/L	12.06.13 18.56	U	1
Ethene	74-85-1		U	0.0020	0.0020	mg/L	12.06.13 18.56	U	1

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Sample Id: **MW-12** Matrix: Water Date Received:12.06.13 08.44

Lab Sample Id: 475358-013 Date Collected: 12.04.13 11.30

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 12.09.13 17.15

Seq Number: 929621 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.208	0.0865	ug/L	12.11.13 12.45	U	10
4,4-DDE	72-55-9	U	0.208	0.0844	ug/L	12.11.13 12.45	U	10
4,4-DDT	50-29-3	U	0.208	0.117	ug/L	12.11.13 12.45	U	10
Aldrin	309-00-2	U	0.208	0.106	ug/L	12.11.13 12.45	U	10
Alpha-BHC	319-84-6	U	0.208	0.0771	ug/L	12.11.13 12.45	U	10
Alpha-Chlordane	5103-71-9	U	0.208	0.0844	ug/L	12.11.13 12.45	U	10
Beta-BHC	319-85-7	**0.601**	0.208	0.0729	ug/L	12.11.13 12.45		10
Delta-BHC	319-86-8	U	0.208	0.0750	ug/L	12.11.13 12.45	U	10
Dieldrin	60-57-1	U	0.208	0.00469	ug/L	12.11.13 12.45	U	10
Endosulfan I	959-98-8	U	0.208	0.0823	ug/L	12.11.13 12.45	U	10
Endosulfan II	33213-65-9	U	0.208	0.0938	ug/L	12.11.13 12.45	U	10
Endosulfan Sulfate	1031-07-8	U	0.208	0.101	ug/L	12.11.13 12.45	U	10
Endrin	72-20-8	U	0.208	0.118	ug/L	12.11.13 12.45	U	10
Endrin Aldehyde	7421-93-4	U	0.208	0.0844	ug/L	12.11.13 12.45	U	10
Endrin Ketone	53494-70-5	U	0.208	0.0750	ug/L	12.11.13 12.45	U	10
Gamma-BHC (Lindane)	58-89-9	U	0.208	0.0729	ug/L	12.11.13 12.45	U	10
Gamma-Chlordane	5103-74-2	U	0.208	0.0729	ug/L	12.11.13 12.45	U	10
Heptachlor	76-44-8	U	0.208	0.133	ug/L	12.11.13 12.45	U	10
Heptachlor Epoxide	1024-57-3	U	0.208	0.0865	ug/L	12.11.13 12.45	U	10
Methoxychlor	72-43-5	U	0.208	0.109	ug/L	12.11.13 12.45	U	10
Chlordane	12789-03-6	U	5.21	0.0531	ug/L	12.11.13 12.45	U	10
Toxaphene	8001-35-2	U	5.21	0.0521	ug/L	12.11.13 12.45	U	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	85	%	18-126	12.11.13 12.45	
Decachlorobiphenyl	2051-24-3	88	%	15-136	12.11.13 12.45	

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Sample Id: **MW-14** Matrix: Water Date Received:12.06.13 08.44
Lab Sample Id: 475358-014 Date Collected: 12.05.13 11.41

Analytical Method: Total Organic Carbon by SW-846 9060 Prep Method: SW9060P
Tech: RKO % Moisture:
Analyst: RKO Date Prep: 12.10.13 10.00
Seq Number: 929666 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**2.36**	1.00	0.548	mg/L	12.11.13 15.31	B	1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: TIW % Moisture:
Analyst: TIW Date Prep: 12.06.13 13.34
Seq Number: 929276

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3.33**	5.00	0.104	mg/L	12.06.13 18.14	J	1
Nitrate as N	14797-55-8	**0.103**	1.00	0.0240	mg/L	12.06.13 18.14	J	1
Sulfate	14808-79-8	**2.43**	5.00	0.168	mg/L	12.06.13 18.14	J	1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 12.13.13 11.55
Seq Number: 929888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.320**	0.0500	0.000900	mg/L	12.15.13 19.57		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 929414

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	**0.0367**	0.00200	0.00187	mg/L	12.06.13 19.06		1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	12.06.13 19.06	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	12.06.13 19.06	U	1

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Sample Id: **MW-14** Matrix: Water Date Received:12.06.13 08.44

Lab Sample Id: 475358-014 Date Collected: 12.05.13 11.41

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 12.09.13 17.18

Seq Number: 929621 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.205	0.0851	ug/L	12.11.13 13.03	U	10
4,4-DDE	72-55-9	U	0.205	0.0831	ug/L	12.11.13 13.03	U	10
4,4-DDT	50-29-3	U	0.205	0.115	ug/L	12.11.13 13.03	U	10
Aldrin	309-00-2	U	0.205	0.105	ug/L	12.11.13 13.03	U	10
Alpha-BHC	319-84-6	U	0.205	0.0759	ug/L	12.11.13 13.03	U	10
Alpha-Chlordane	5103-71-9	U	0.205	0.0831	ug/L	12.11.13 13.03	U	10
Beta-BHC	319-85-7	U	0.205	0.0718	ug/L	12.11.13 13.03	U	10
Delta-BHC	319-86-8	U	0.205	0.0738	ug/L	12.11.13 13.03	U	10
Dieldrin	60-57-1	U	0.205	0.00462	ug/L	12.11.13 13.03	U	10
Endosulfan I	959-98-8	U	0.205	0.0810	ug/L	12.11.13 13.03	U	10
Endosulfan II	33213-65-9	U	0.205	0.0923	ug/L	12.11.13 13.03	U	10
Endosulfan Sulfate	1031-07-8	U	0.205	0.0995	ug/L	12.11.13 13.03	U	10
Endrin	72-20-8	U	0.205	0.116	ug/L	12.11.13 13.03	U	10
Endrin Aldehyde	7421-93-4	U	0.205	0.0831	ug/L	12.11.13 13.03	U	10
Endrin Ketone	53494-70-5	U	0.205	0.0738	ug/L	12.11.13 13.03	U	10
Gamma-BHC (Lindane)	58-89-9	U	0.205	0.0718	ug/L	12.11.13 13.03	U	10
Gamma-Chlordane	5103-74-2	U	0.205	0.0718	ug/L	12.11.13 13.03	U	10
Heptachlor	76-44-8	U	0.205	0.131	ug/L	12.11.13 13.03	U	10
Heptachlor Epoxide	1024-57-3	U	0.205	0.0851	ug/L	12.11.13 13.03	U	10
Methoxychlor	72-43-5	U	0.205	0.108	ug/L	12.11.13 13.03	U	10
Chlordane	12789-03-6	U	5.13	0.0523	ug/L	12.11.13 13.03	U	10
Toxaphene	8001-35-2	U	5.13	0.0513	ug/L	12.11.13 13.03	U	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	74	%	18-126	12.11.13 13.03	
Decachlorobiphenyl	2051-24-3	64	%	15-136	12.11.13 13.03	

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Sample Id: **MW-16** Matrix: Water Date Received:12.06.13 08.44
Lab Sample Id: 475358-015 Date Collected: 12.04.13 13.28

Analytical Method: Total Organic Carbon by SW-846 9060 Prep Method: SW9060P
Tech: RKO % Moisture:
Analyst: RKO Date Prep: 12.10.13 10.00
Seq Number: 929666 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.51**	1.00	0.548	mg/L	12.11.13 15.48	B	1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 12.13.13 11.55
Seq Number: 929888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.0296**	0.0500	0.000900	mg/L	12.15.13 19.59	J	1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 929414

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8		U	0.00200	0.00187	mg/L	12.06.13 19.13	U	1
Ethane	74-84-0		U	0.00200	0.00203	mg/L	12.06.13 19.13	U	1
Ethene	74-85-1		U	0.0020	0.0020	mg/L	12.06.13 19.13	U	1

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Sample Id: **MW-16** Matrix: Water Date Received:12.06.13 08.44

Lab Sample Id: 475358-015 Date Collected: 12.04.13 13.28

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 12.09.13 17.21

Seq Number: 929621 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.206	0.0856	ug/L	12.11.13 13.21	U	10
4,4-DDE	72-55-9	U	0.206	0.0835	ug/L	12.11.13 13.21	U	10
4,4-DDT	50-29-3	U	0.206	0.115	ug/L	12.11.13 13.21	U	10
Aldrin	309-00-2	U	0.206	0.105	ug/L	12.11.13 13.21	U	10
Alpha-BHC	319-84-6	U	0.206	0.0763	ug/L	12.11.13 13.21	U	10
Alpha-Chlordane	5103-71-9	U	0.206	0.0835	ug/L	12.11.13 13.21	U	10
Beta-BHC	319-85-7	U	0.206	0.0722	ug/L	12.11.13 13.21	U	10
Delta-BHC	319-86-8	U	0.206	0.0742	ug/L	12.11.13 13.21	U	10
Dieldrin	60-57-1	U	0.206	0.00464	ug/L	12.11.13 13.21	U	10
Endosulfan I	959-98-8	U	0.206	0.0814	ug/L	12.11.13 13.21	U	10
Endosulfan II	33213-65-9	U	0.206	0.0928	ug/L	12.11.13 13.21	U	10
Endosulfan Sulfate	1031-07-8	U	0.206	0.1000	ug/L	12.11.13 13.21	U	10
Endrin	72-20-8	U	0.206	0.116	ug/L	12.11.13 13.21	U	10
Endrin Aldehyde	7421-93-4	U	0.206	0.0835	ug/L	12.11.13 13.21	U	10
Endrin Ketone	53494-70-5	U	0.206	0.0742	ug/L	12.11.13 13.21	U	10
Gamma-BHC (Lindane)	58-89-9	U	0.206	0.0722	ug/L	12.11.13 13.21	U	10
Gamma-Chlordane	5103-74-2	U	0.206	0.0722	ug/L	12.11.13 13.21	U	10
Heptachlor	76-44-8	U	0.206	0.132	ug/L	12.11.13 13.21	U	10
Heptachlor Epoxide	1024-57-3	U	0.206	0.0856	ug/L	12.11.13 13.21	U	10
Methoxychlor	72-43-5	U	0.206	0.108	ug/L	12.11.13 13.21	U	10
Chlordane	12789-03-6	U	5.15	0.0526	ug/L	12.11.13 13.21	U	10
Toxaphene	8001-35-2	U	5.15	0.0515	ug/L	12.11.13 13.21	U	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	83	%	18-126	12.11.13 13.21	
Decachlorobiphenyl	2051-24-3	73	%	15-136	12.11.13 13.21	

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Sample Id: **MW-17** Matrix: Water Date Received:12.06.13 08.44
Lab Sample Id: 475358-016 Date Collected: 12.04.13 10.41

Analytical Method: Total Organic Carbon by SW-846 9060 Prep Method: SW9060P
Tech: RKO % Moisture:
Analyst: RKO Date Prep: 12.10.13 10.00
Seq Number: 929666 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**2.46**	1.00	0.548	mg/L	12.11.13 16.05	B	1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 12.13.13 11.55
Seq Number: 929888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.116**	0.0500	0.000900	mg/L	12.15.13 20.01		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 929414

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8		U	0.00200	0.00187	mg/L	12.06.13 19.22	U	1
Ethane	74-84-0		U	0.00200	0.00203	mg/L	12.06.13 19.22	U	1
Ethene	74-85-1		U	0.0020	0.0020	mg/L	12.06.13 19.22	U	1

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Sample Id: **MW-17** Matrix: Water Date Received:12.06.13 08.44
Lab Sample Id: 475358-016 Date Collected: 12.04.13 10.41

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C
Tech: PJB % Moisture:
Analyst: KKO Date Prep: 12.09.13 17.24
Seq Number: 929621 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.207	0.0860	ug/L	12.11.13 13.39	U	10
4,4-DDE	72-55-9	U	0.207	0.0839	ug/L	12.11.13 13.39	U	10
4,4-DDT	50-29-3	U	0.207	0.116	ug/L	12.11.13 13.39	U	10
Aldrin	309-00-2	U	0.207	0.106	ug/L	12.11.13 13.39	U	10
Alpha-BHC	319-84-6	U	0.207	0.0767	ug/L	12.11.13 13.39	U	10
Alpha-Chlordane	5103-71-9	U	0.207	0.0839	ug/L	12.11.13 13.39	U	10
Beta-BHC	319-85-7	**0.264**	0.207	0.0725	ug/L	12.11.13 13.39		10
Delta-BHC	319-86-8	U	0.207	0.0746	ug/L	12.11.13 13.39	U	10
Dieldrin	60-57-1	U	0.207	0.00466	ug/L	12.11.13 13.39	U	10
Endosulfan I	959-98-8	U	0.207	0.0819	ug/L	12.11.13 13.39	U	10
Endosulfan II	33213-65-9	U	0.207	0.0933	ug/L	12.11.13 13.39	U	10
Endosulfan Sulfate	1031-07-8	U	0.207	0.101	ug/L	12.11.13 13.39	U	10
Endrin	72-20-8	U	0.207	0.117	ug/L	12.11.13 13.39	U	10
Endrin Aldehyde	7421-93-4	U	0.207	0.0839	ug/L	12.11.13 13.39	U	10
Endrin Ketone	53494-70-5	U	0.207	0.0746	ug/L	12.11.13 13.39	U	10
Gamma-BHC (Lindane)	58-89-9	U	0.207	0.0725	ug/L	12.11.13 13.39	U	10
Gamma-Chlordane	5103-74-2	U	0.207	0.0725	ug/L	12.11.13 13.39	U	10
Heptachlor	76-44-8	U	0.207	0.133	ug/L	12.11.13 13.39	U	10
Heptachlor Epoxide	1024-57-3	U	0.207	0.0860	ug/L	12.11.13 13.39	U	10
Methoxychlor	72-43-5	U	0.207	0.109	ug/L	12.11.13 13.39	U	10
Chlordane	12789-03-6	U	5.18	0.0529	ug/L	12.11.13 13.39	U	10
Toxaphene	8001-35-2	U	5.18	0.0518	ug/L	12.11.13 13.39	U	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	79	%	18-126	12.11.13 13.39	
Decachlorobiphenyl	2051-24-3	89	%	15-136	12.11.13 13.39	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-18** Matrix: Water Date Received:12.06.13 08.44
Lab Sample Id: 475358-017 Date Collected: 12.03.13 15.38

Analytical Method: Total Organic Carbon by SW-846 9060 Prep Method: SW9060P
Tech: RKO % Moisture:
Analyst: RKO Date Prep: 12.10.13 10.00
Seq Number: 929666 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**3.30**	1.00	0.548	mg/L	12.11.13 16.44	B	1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 12.13.13 11.55
Seq Number: 929888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**1.71**	0.0500	0.000900	mg/L	12.15.13 20.09		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 929414

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	**0.00211**	0.00200	0.00187	mg/L	12.06.13 19.30		1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	12.06.13 19.30	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	12.06.13 19.30	U	1

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-18** Matrix: Water Date Received:12.06.13 08.44

Lab Sample Id: 475358-017 Date Collected: 12.03.13 15.38

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 12.09.13 17.27

Seq Number: 929621 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.206	0.0856	ug/L	12.11.13 13.57	U	10
4,4-DDE	72-55-9	U	0.206	0.0835	ug/L	12.11.13 13.57	U	10
4,4-DDT	50-29-3	U	0.206	0.115	ug/L	12.11.13 13.57	U	10
Aldrin	309-00-2	U	0.206	0.105	ug/L	12.11.13 13.57	U	10
Alpha-BHC	319-84-6	U	0.206	0.0763	ug/L	12.11.13 13.57	U	10
Alpha-Chlordane	5103-71-9	U	0.206	0.0835	ug/L	12.11.13 13.57	U	10
Beta-BHC	319-85-7	**0.463**	0.206	0.0722	ug/L	12.11.13 13.57		10
Delta-BHC	319-86-8	U	0.206	0.0742	ug/L	12.11.13 13.57	U	10
Dieldrin	60-57-1	U	0.206	0.00464	ug/L	12.11.13 13.57	U	10
Endosulfan I	959-98-8	U	0.206	0.0814	ug/L	12.11.13 13.57	U	10
Endosulfan II	33213-65-9	U	0.206	0.0928	ug/L	12.11.13 13.57	U	10
Endosulfan Sulfate	1031-07-8	U	0.206	0.1000	ug/L	12.11.13 13.57	U	10
Endrin	72-20-8	U	0.206	0.116	ug/L	12.11.13 13.57	U	10
Endrin Aldehyde	7421-93-4	U	0.206	0.0835	ug/L	12.11.13 13.57	U	10
Endrin Ketone	53494-70-5	U	0.206	0.0742	ug/L	12.11.13 13.57	U	10
Gamma-BHC (Lindane)	58-89-9	U	0.206	0.0722	ug/L	12.11.13 13.57	U	10
Gamma-Chlordane	5103-74-2	U	0.206	0.0722	ug/L	12.11.13 13.57	U	10
Heptachlor	76-44-8	U	0.206	0.132	ug/L	12.11.13 13.57	U	10
Heptachlor Epoxide	1024-57-3	U	0.206	0.0856	ug/L	12.11.13 13.57	U	10
Methoxychlor	72-43-5	U	0.206	0.108	ug/L	12.11.13 13.57	U	10
Chlordane	12789-03-6	U	5.15	0.0526	ug/L	12.11.13 13.57	U	10
Toxaphene	8001-35-2	U	5.15	0.0515	ug/L	12.11.13 13.57	U	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	63	%	18-126	12.11.13 13.57	
Decachlorobiphenyl	2051-24-3	85	%	15-136	12.11.13 13.57	

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GPA Bainbridge

Sample Id: **MW-19** Matrix: Water Date Received:12.06.13 08.44
Lab Sample Id: 475358-018 Date Collected: 12.03.13 14.52

Analytical Method: Total Organic Carbon by SW-846 9060 Prep Method: SW9060P
Tech: RKO % Moisture:
Analyst: RKO Date Prep: 12.10.13 10.00
Seq Number: 929666 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**3.27**	1.00	0.548	mg/L	12.11.13 17.03	B	1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 12.13.13 11.55
Seq Number: 929888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.755**	0.0500	0.000900	mg/L	12.15.13 20.11		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 929419

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	**0.00204**	0.00200	0.00187	mg/L	12.07.13 11.12		1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	12.07.13 11.12	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	12.07.13 11.12	UF	1

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-19** Matrix: Water Date Received:12.06.13 08.44

Lab Sample Id: 475358-018 Date Collected: 12.03.13 14.52

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 12.09.13 17.30

Seq Number: 929621 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.205	0.0851	ug/L	12.11.13 14.15	U	10
4,4-DDE	72-55-9	U	0.205	0.0831	ug/L	12.11.13 14.15	U	10
4,4-DDT	50-29-3	U	0.205	0.115	ug/L	12.11.13 14.15	U	10
Aldrin	309-00-2	U	0.205	0.105	ug/L	12.11.13 14.15	U	10
Alpha-BHC	319-84-6	U	0.205	0.0759	ug/L	12.11.13 14.15	U	10
Alpha-Chlordane	5103-71-9	U	0.205	0.0831	ug/L	12.11.13 14.15	U	10
Beta-BHC	319-85-7	U	0.205	0.0718	ug/L	12.11.13 14.15	U	10
Delta-BHC	319-86-8	U	0.205	0.0738	ug/L	12.11.13 14.15	U	10
Dieldrin	60-57-1	U	0.205	0.00462	ug/L	12.11.13 14.15	U	10
Endosulfan I	959-98-8	U	0.205	0.0810	ug/L	12.11.13 14.15	U	10
Endosulfan II	33213-65-9	U	0.205	0.0923	ug/L	12.11.13 14.15	U	10
Endosulfan Sulfate	1031-07-8	U	0.205	0.0995	ug/L	12.11.13 14.15	U	10
Endrin	72-20-8	U	0.205	0.116	ug/L	12.11.13 14.15	U	10
Endrin Aldehyde	7421-93-4	U	0.205	0.0831	ug/L	12.11.13 14.15	U	10
Endrin Ketone	53494-70-5	U	0.205	0.0738	ug/L	12.11.13 14.15	U	10
Gamma-BHC (Lindane)	58-89-9	U	0.205	0.0718	ug/L	12.11.13 14.15	U	10
Gamma-Chlordane	5103-74-2	U	0.205	0.0718	ug/L	12.11.13 14.15	U	10
Heptachlor	76-44-8	U	0.205	0.131	ug/L	12.11.13 14.15	U	10
Heptachlor Epoxide	1024-57-3	U	0.205	0.0851	ug/L	12.11.13 14.15	U	10
Methoxychlor	72-43-5	U	0.205	0.108	ug/L	12.11.13 14.15	U	10
Chlordane	12789-03-6	U	5.13	0.0523	ug/L	12.11.13 14.15	U	10
Toxaphene	8001-35-2	U	5.13	0.0513	ug/L	12.11.13 14.15	U	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	69	%	18-126	12.11.13 14.15	
Decachlorobiphenyl	2051-24-3	85	%	15-136	12.11.13 14.15	

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GPA Bainbridge

Sample Id: **MW-20** Matrix: Water Date Received:12.06.13 08.44
Lab Sample Id: 475358-019 Date Collected: 12.04.13 14.17

Analytical Method: Total Organic Carbon by SW-846 9060 Prep Method: SW9060P
Tech: RKO % Moisture:
Analyst: RKO Date Prep: 12.10.13 10.00
Seq Number: 929666 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**2.61**	1.00	0.548	mg/L	12.11.13 17.21	B	1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 12.13.13 11.55
Seq Number: 929888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.721**	0.0500	0.000900	mg/L	12.15.13 20.13		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 929419

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8		U	0.00200	0.00187	mg/L	12.07.13 11.28	U	1
Ethane	74-84-0		U	0.00200	0.00203	mg/L	12.07.13 11.28	U	1
Ethene	74-85-1		U	0.0020	0.0020	mg/L	12.07.13 11.28	UF	1

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-20** Matrix: Water Date Received:12.06.13 08.44

Lab Sample Id: 475358-019 Date Collected: 12.04.13 14.17

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 12.09.13 17.33

Seq Number: 929621 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.412	0.171	ug/L	12.12.13 13.17	U	20
4,4-DDE	72-55-9	U	0.412	0.167	ug/L	12.12.13 13.17	U	20
4,4-DDT	50-29-3	U	0.412	0.231	ug/L	12.12.13 13.17	U	20
Aldrin	309-00-2	U	0.412	0.210	ug/L	12.12.13 13.17	U	20
Alpha-BHC	319-84-6	U	0.412	0.153	ug/L	12.12.13 13.17	U	20
Alpha-Chlordane	5103-71-9	U	0.412	0.167	ug/L	12.12.13 13.17	U	20
Beta-BHC	319-85-7	**27.7**	0.412	0.144	ug/L	12.12.13 13.17		20
Delta-BHC	319-86-8	U	0.412	0.148	ug/L	12.12.13 13.17	U	20
Dieldrin	60-57-1	**0.0188**	0.412	0.00928	ug/L	12.12.13 13.17	J	20
Endosulfan I	959-98-8	U	0.412	0.163	ug/L	12.12.13 13.17	U	20
Endosulfan II	33213-65-9	U	0.412	0.186	ug/L	12.12.13 13.17	U	20
Endosulfan Sulfate	1031-07-8	U	0.412	0.200	ug/L	12.12.13 13.17	U	20
Endrin	72-20-8	U	0.412	0.233	ug/L	12.12.13 13.17	U	20
Endrin Aldehyde	7421-93-4	U	0.412	0.167	ug/L	12.12.13 13.17	U	20
Endrin Ketone	53494-70-5	U	0.412	0.148	ug/L	12.12.13 13.17	U	20
Gamma-BHC (Lindane)	58-89-9	U	0.412	0.144	ug/L	12.12.13 13.17	U	20
Gamma-Chlordane	5103-74-2	U	0.412	0.144	ug/L	12.12.13 13.17	U	20
Heptachlor	76-44-8	U	0.412	0.264	ug/L	12.12.13 13.17	U	20
Heptachlor Epoxide	1024-57-3	U	0.412	0.171	ug/L	12.12.13 13.17	U	20
Methoxychlor	72-43-5	U	0.412	0.216	ug/L	12.12.13 13.17	U	20
Chlordane	12789-03-6	U	10.3	0.105	ug/L	12.12.13 13.17	U	20
Toxaphene	8001-35-2	U	10.3	0.103	ug/L	12.12.13 13.17	U	20

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	80	%	18-126	12.12.13 13.17	
Decachlorobiphenyl	2051-24-3	102	%	15-136	12.12.13 13.17	

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GPA Bainbridge

Sample Id: **MW-21** Matrix: Water Date Received:12.06.13 08.44
Lab Sample Id: 475358-020 Date Collected: 12.04.13 16.22

Analytical Method: Total Organic Carbon by SW-846 9060 Prep Method: SW9060P
Tech: RKO % Moisture:
Analyst: RKO Date Prep: 12.10.13 10.00
Seq Number: 929666 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**2.21**	1.00	0.548	mg/L	12.11.13 17.38	B	1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 12.13.13 11.55
Seq Number: 929888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.672**	0.0500	0.000900	mg/L	12.15.13 20.15		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 929419

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8		U	0.00200	0.00187	mg/L	12.07.13 11.34	U	1
Ethane	74-84-0		U	0.00200	0.00203	mg/L	12.07.13 11.34	U	1
Ethene	74-85-1		U	0.0020	0.0020	mg/L	12.07.13 11.34	UF	1

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GPA Bainbridge

Sample Id: **MW-21** Matrix: Water Date Received:12.06.13 08.44

Lab Sample Id: 475358-020 Date Collected: 12.04.13 16.22

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 12.09.13 17.36

Seq Number: 929621 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.206	0.0856	ug/L	12.11.13 14.51	U	10
4,4-DDE	72-55-9	U	0.206	0.0835	ug/L	12.11.13 14.51	U	10
4,4-DDT	50-29-3	U	0.206	0.115	ug/L	12.11.13 14.51	U	10
Aldrin	309-00-2	U	0.206	0.105	ug/L	12.11.13 14.51	U	10
Alpha-BHC	319-84-6	U	0.206	0.0763	ug/L	12.11.13 14.51	U	10
Alpha-Chlordane	5103-71-9	U	0.206	0.0835	ug/L	12.11.13 14.51	U	10
Beta-BHC	319-85-7	**2.53**	0.206	0.0722	ug/L	12.11.13 14.51		10
Delta-BHC	319-86-8	U	0.206	0.0742	ug/L	12.11.13 14.51	U	10
Dieldrin	60-57-1	U	0.206	0.00464	ug/L	12.11.13 14.51	U	10
Endosulfan I	959-98-8	U	0.206	0.0814	ug/L	12.11.13 14.51	U	10
Endosulfan II	33213-65-9	U	0.206	0.0928	ug/L	12.11.13 14.51	U	10
Endosulfan Sulfate	1031-07-8	U	0.206	0.1000	ug/L	12.11.13 14.51	U	10
Endrin	72-20-8	U	0.206	0.116	ug/L	12.11.13 14.51	U	10
Endrin Aldehyde	7421-93-4	U	0.206	0.0835	ug/L	12.11.13 14.51	U	10
Endrin Ketone	53494-70-5	U	0.206	0.0742	ug/L	12.11.13 14.51	U	10
Gamma-BHC (Lindane)	58-89-9	U	0.206	0.0722	ug/L	12.11.13 14.51	U	10
Gamma-Chlordane	5103-74-2	U	0.206	0.0722	ug/L	12.11.13 14.51	U	10
Heptachlor	76-44-8	U	0.206	0.132	ug/L	12.11.13 14.51	U	10
Heptachlor Epoxide	1024-57-3	U	0.206	0.0856	ug/L	12.11.13 14.51	U	10
Methoxychlor	72-43-5	U	0.206	0.108	ug/L	12.11.13 14.51	U	10
Chlordane	12789-03-6	U	5.15	0.0526	ug/L	12.11.13 14.51	U	10
Toxaphene	8001-35-2	U	5.15	0.0515	ug/L	12.11.13 14.51	U	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	76	%	18-126	12.11.13 14.51	
Decachlorobiphenyl	2051-24-3	92	%	15-136	12.11.13 14.51	

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GPA Bainbridge

Sample Id: **MW-22** Matrix: Water Date Received:12.06.13 08.44
Lab Sample Id: 475358-021 Date Collected: 12.05.13 15.35

Analytical Method: Total Organic Carbon by SW-846 9060 Prep Method: SW9060P
Tech: RKO % Moisture:
Analyst: RKO Date Prep: 12.10.13 10.04
Seq Number: 929669 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**2.88**	1.00	0.548	mg/L	12.13.13 18.39	BX	1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: TIW % Moisture:
Analyst: TIW Date Prep: 12.06.13 13.34
Seq Number: 929276

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7.29**	5.00	0.104	mg/L	12.06.13 21.09		1
Nitrate as N	14797-55-8	**2.24**	1.00	0.0240	mg/L	12.06.13 21.09		1
Sulfate	14808-79-8	**216**	25.0	0.840	mg/L	12.06.13 20.52	D	5

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 12.12.13 10.23
Seq Number: 929783

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.600**	0.0500	0.000900	mg/L	12.12.13 17.34		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 929419

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	12.07.13 11.41	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	12.07.13 11.41	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	12.07.13 11.41	UF	1

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-22** Matrix: Water Date Received:12.06.13 08.44

Lab Sample Id: 475358-021 Date Collected: 12.05.13 15.35

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 12.09.13 17.39

Seq Number: 929621 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.408	0.169	ug/L	12.11.13 15.45	U	20
4,4-DDE	72-55-9	U	0.408	0.165	ug/L	12.11.13 15.45	U	20
4,4-DDT	50-29-3	U	0.408	0.229	ug/L	12.11.13 15.45	U	20
Aldrin	309-00-2	U	0.408	0.208	ug/L	12.11.13 15.45	U	20
Alpha-BHC	319-84-6	**0.999**	0.408	0.151	ug/L	12.11.13 15.45		20
Alpha-Chlordane	5103-71-9	U	0.408	0.165	ug/L	12.11.13 15.45	U	20
Beta-BHC	319-85-7	**37.4**	0.408	0.143	ug/L	12.11.13 15.45	X	20
Delta-BHC	319-86-8	**1.39**	0.408	0.147	ug/L	12.11.13 15.45		20
Dieldrin	60-57-1	**0.0304**	0.408	0.00918	ug/L	12.11.13 15.45	J	20
Endosulfan I	959-98-8	U	0.408	0.161	ug/L	12.11.13 15.45	U	20
Endosulfan II	33213-65-9	U	0.408	0.184	ug/L	12.11.13 15.45	U	20
Endosulfan Sulfate	1031-07-8	U	0.408	0.198	ug/L	12.11.13 15.45	U	20
Endrin	72-20-8	U	0.408	0.231	ug/L	12.11.13 15.45	U	20
Endrin Aldehyde	7421-93-4	U	0.408	0.165	ug/L	12.11.13 15.45	U	20
Endrin Ketone	53494-70-5	U	0.408	0.147	ug/L	12.11.13 15.45	U	20
Gamma-BHC (Lindane)	58-89-9	**0.489**	0.408	0.143	ug/L	12.11.13 15.45		20
Gamma-Chlordane	5103-74-2	U	0.408	0.143	ug/L	12.11.13 15.45	U	20
Heptachlor	76-44-8	U	0.408	0.261	ug/L	12.11.13 15.45	U	20
Heptachlor Epoxide	1024-57-3	U	0.408	0.169	ug/L	12.11.13 15.45	U	20
Methoxychlor	72-43-5	U	0.408	0.214	ug/L	12.11.13 15.45	U	20
Chlordane	12789-03-6	U	10.2	0.104	ug/L	12.11.13 15.45	U	20
Toxaphene	8001-35-2	U	10.2	0.102	ug/L	12.11.13 15.45	U	20

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	78	%	18-126	12.11.13 15.45	
Decachlorobiphenyl	2051-24-3	94	%	15-136	12.11.13 15.45	

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-10 Duplicate** Matrix: Water Date Received:12.06.13 08.44
Lab Sample Id: 475358-022 Date Collected: 12.04.13 16.30

Analytical Method: Total Organic Carbon by SW-846 9060 Prep Method: SW9060P
Tech: RKO % Moisture:
Analyst: RKO Date Prep: 12.10.13 10.04
Seq Number: 929669 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**3.68**	1.00	0.548	mg/L	12.13.13 19.16		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 12.12.13 10.23
Seq Number: 929783

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.846**	0.0500	0.000900	mg/L	12.12.13 17.36		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 929419

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8		U	0.00200	0.00187	mg/L	12.07.13 11.46	U	1
Ethane	74-84-0		U	0.00200	0.00203	mg/L	12.07.13 11.46	U	1
Ethene	74-85-1		U	0.0020	0.0020	mg/L	12.07.13 11.46	UF	1

Certificate of Analytical Results 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-10 Duplicate** Matrix: Water Date Received:12.06.13 08.44

Lab Sample Id: 475358-022 Date Collected: 12.04.13 16.30

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 12.09.13 17.45

Seq Number: 929621 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0207	0.00860	ug/L	12.13.13 10.21	U	1
4,4-DDE	72-55-9	U	0.0207	0.00839	ug/L	12.13.13 10.21	U	1
4,4-DDT	50-29-3	U	0.0207	0.0116	ug/L	12.13.13 10.21	U	1
Aldrin	309-00-2	U	0.0207	0.0106	ug/L	12.13.13 10.21	U	1
Alpha-BHC	319-84-6	**0.485**	0.0207	0.00767	ug/L	12.13.13 10.21		1
Alpha-Chlordane	5103-71-9	U	0.0207	0.00839	ug/L	12.13.13 10.21	U	1
Beta-BHC	319-85-7	**9.27**	0.200	0.0700	ug/L	12.13.13 09.45	D	10
Delta-BHC	319-86-8	**0.461**	0.0207	0.00746	ug/L	12.13.13 10.21		1
Dieldrin	60-57-1	**0.00198**	0.0207	0.000466	ug/L	12.13.13 10.21	J	1
Endosulfan I	959-98-8	U	0.0207	0.00819	ug/L	12.13.13 10.21	U	1
Endosulfan II	33213-65-9	U	0.0207	0.00933	ug/L	12.13.13 10.21	U	1
Endosulfan Sulfate	1031-07-8	U	0.0207	0.0101	ug/L	12.13.13 10.21	U	1
Endrin	72-20-8	U	0.0207	0.0117	ug/L	12.13.13 10.21	U	1
Endrin Aldehyde	7421-93-4	U	0.0207	0.00839	ug/L	12.13.13 10.21	U	1
Endrin Ketone	53494-70-5	U	0.0207	0.00746	ug/L	12.13.13 10.21	U	1
Gamma-BHC (Lindane)	58-89-9	**0.236**	0.0207	0.00725	ug/L	12.13.13 10.21		1
Gamma-Chlordane	5103-74-2	U	0.0207	0.00725	ug/L	12.13.13 10.21	U	1
Heptachlor	76-44-8	U	0.0207	0.0133	ug/L	12.13.13 10.21	U	1
Heptachlor Epoxide	1024-57-3	U	0.0207	0.00860	ug/L	12.13.13 10.21	U	1
Methoxychlor	72-43-5	U	0.0207	0.0109	ug/L	12.13.13 10.21	U	1
Chlordane	12789-03-6	U	0.518	0.00529	ug/L	12.13.13 10.21	U	1
Toxaphene	8001-35-2	U	0.518	0.00518	ug/L	12.13.13 10.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	77	%	18-126	12.13.13 10.21	
Decachlorobiphenyl	2051-24-3	95	%	15-136	12.13.13 10.21	

Certificate of Analytical Results 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **Equipment Blank** Matrix: Water Date Received:12.06.13 08.44
Lab Sample Id: 475358-023 Date Collected: 12.03.13 16.26

Analytical Method: Total Organic Carbon by SW-846 9060 Prep Method: SW9060P
Tech: RKO % Moisture:
Analyst: RKO Date Prep: 12.10.13 10.04
Seq Number: 929669 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.10**	1.00	0.548	mg/L	12.13.13 19.33	B	1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 12.13.13 12.45
Seq Number: 929893

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.00220**	0.0500	0.000900	mg/L	12.15.13 20.22	BJ	1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 929419

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8		U	0.00200	0.00187	mg/L	12.07.13 11.49	U	1
Ethane	74-84-0		U	0.00200	0.00203	mg/L	12.07.13 11.49	U	1
Ethene	74-85-1		U	0.0020	0.0020	mg/L	12.07.13 11.49	UF	1

Certificate of Analytical Results 475358

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **Equipment Blank** Matrix: Water Date Received:12.06.13 08.44

Lab Sample Id: 475358-023 Date Collected: 12.03.13 16.26

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 12.09.13 17.48

Seq Number: 929621 SUB: E871002

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8		U	0.0206	0.00856	ug/L	12.12.13 13.53	U	1
4,4-DDE	72-55-9		U	0.0206	0.00835	ug/L	12.12.13 13.53	U	1
4,4-DDT	50-29-3		U	0.0206	0.0115	ug/L	12.12.13 13.53	U	1
Aldrin	309-00-2		U	0.0206	0.0105	ug/L	12.12.13 13.53	U	1
Alpha-BHC	319-84-6		U	0.0206	0.00763	ug/L	12.12.13 13.53	U	1
Alpha-Chlordane	5103-71-9		U	0.0206	0.00835	ug/L	12.12.13 13.53	U	1
Beta-BHC	319-85-7		U	0.0206	0.00722	ug/L	12.12.13 13.53	U	1
Delta-BHC	319-86-8		U	0.0206	0.00742	ug/L	12.12.13 13.53	U	1
Dieldrin	60-57-1		U	0.0206	0.000464	ug/L	12.12.13 13.53	U	1
Endosulfan I	959-98-8		U	0.0206	0.00814	ug/L	12.12.13 13.53	U	1
Endosulfan II	33213-65-9		U	0.0206	0.00928	ug/L	12.12.13 13.53	U	1
Endosulfan Sulfate	1031-07-8		U	0.0206	0.01000	ug/L	12.12.13 13.53	U	1
Endrin	72-20-8		U	0.0206	0.0116	ug/L	12.12.13 13.53	U	1
Endrin Aldehyde	7421-93-4		U	0.0206	0.00835	ug/L	12.12.13 13.53	U	1
Endrin Ketone	53494-70-5		U	0.0206	0.00742	ug/L	12.12.13 13.53	U	1
Gamma-BHC (Lindane)	58-89-9		U	0.0206	0.00722	ug/L	12.12.13 13.53	U	1
Gamma-Chlordane	5103-74-2		U	0.0206	0.00722	ug/L	12.12.13 13.53	U	1
Heptachlor	76-44-8		U	0.0206	0.0132	ug/L	12.12.13 13.53	U	1
Heptachlor Epoxide	1024-57-3		U	0.0206	0.00856	ug/L	12.12.13 13.53	U	1
Methoxychlor	72-43-5		U	0.0206	0.0108	ug/L	12.12.13 13.53	U	1
Chlordane	12789-03-6		U	0.515	0.00526	ug/L	12.12.13 13.53	U	1
Toxaphene	8001-35-2		U	0.515	0.00515	ug/L	12.12.13 13.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	86	%	18-126	12.12.13 13.53	
Decachlorobiphenyl	2051-24-3	75	%	15-136	12.12.13 13.53	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Environmental International Corporation

GPA Bainbridge

Analytical Method: Total Organic Carbon by SW-846 9060 — Prep Method: SW9060P
Seq Number: 929666 — Matrix: Water — Date Prep: 12.10.13
MB Sample Id: 648255-1-BLK — LCS Sample Id: 648255-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Total Organic Carbon	0.852	10.0	10.1	101	90-110	mg/L	12.11.13 08:07	

Analytical Method: Total Organic Carbon by SW-846 9060 — Prep Method: SW9060P
Seq Number: 929669 — Matrix: Water — Date Prep: 12.10.13
MB Sample Id: 648256-1-BLK — LCS Sample Id: 648256-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Total Organic Carbon	0.819	10.0	9.86	99	90-110	mg/L	12.13.13 18:27	

Analytical Method: Total Organic Carbon by SW-846 9060 — Prep Method: SW9060P
Seq Number: 929666 — Matrix: Water — Date Prep: 12.10.13
Parent Sample Id: 475358-001 — MS Sample Id: 475358-001 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Total Organic Carbon	6.91	10.0	17.2	103	90-110	mg/L	12.11.13 09:36	

Analytical Method: Total Organic Carbon by SW-846 9060 — Prep Method: SW9060P
Seq Number: 929666 — Matrix: Water — Date Prep: 12.10.13
Parent Sample Id: 475358-011 — MS Sample Id: 475358-011 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Total Organic Carbon	3.15	10.0	14.8	117	90-110	mg/L	12.11.13 14:38	X

Analytical Method: Total Organic Carbon by SW-846 9060 — Prep Method: SW9060P
Seq Number: 929669 — Matrix: Water — Date Prep: 12.10.13
Parent Sample Id: 475358-021 — MS Sample Id: 475358-021 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Total Organic Carbon	2.88	10.0	14.7	118	90-110	mg/L	12.13.13 18:57	X

Environmental International Corporation

GPA Bainbridge

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A — Prep Method: SW9056P
Seq Number: 929276 — Matrix: Water — Date Prep: 12.06.13
MB Sample Id: 648036-1-BLK — LCS Sample Id: 648036-1-BKS — LCSD Sample Id: 648036-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.104	10.0	9.72	97	9.70	97	80-120	0	15	mg/L	12.06.13 14:44	
Nitrate as N	<0.0240	1.00	0.922	92	0.902	90	80-120	2	15	mg/L	12.06.13 14:44	
Sulfate	<0.168	10.0	9.41	94	9.40	94	80-120	0	15	mg/L	12.06.13 14:44	

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A — Prep Method: SW9056P
Seq Number: 929276 — Matrix: Water — Date Prep: 12.06.13
Parent Sample Id: 475358-014 — MD Sample Id: 475358-014 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3.33	3.17	5	15	mg/L	12.06.13 21:27	J
Nitrate as N	0.103	0.0912	12	15	mg/L	12.06.13 21:27	J
Sulfate	2.43	5.11	71	15	mg/L	12.06.13 21:27	F

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A — Prep Method: SW9056P
Seq Number: 929276 — Matrix: Water — Date Prep: 12.06.13
Parent Sample Id: 475358-014 — MS Sample Id: 475358-014 S — MSD Sample Id: 475358-014 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3.33	10.0	11.8	85	11.9	86	80-120	1	15	mg/L	12.06.13 18:49	
Nitrate as N	0.103	1.00	0.930	83	0.943	84	80-120	1	15	mg/L	12.06.13 18:49	
Sulfate	2.43	10.0	10.6	82	10.6	82	80-120	0	15	mg/L	12.06.13 18:49	

Analytical Method: Manganese by SW-846 6010C — Prep Method: SW3010A
Seq Number: 929783 — Matrix: Water — Date Prep: 12.12.13
MB Sample Id: 648262-1-BLK — LCS Sample Id: 648262-1-BKS — LCSD Sample Id: 648262-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Manganese	0.00200	1.00	0.935	94	0.950	95	80-120	2	20	mg/L	12.12.13 16:31	

Analytical Method: Manganese by SW-846 6010C — Prep Method: SW3010A
Seq Number: 929888 — Matrix: Water — Date Prep: 12.13.13
MB Sample Id: 648364-1-BLK — LCS Sample Id: 648364-1-BKS — LCSD Sample Id: 648364-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Manganese	<0.000900	1.00	0.968	97	0.964	96	80-120	0	20	mg/L	12.15.13 19:06	

Environmental International Corporation

GPA Bainbridge

Analytical Method: Manganese by SW-846 6010C — Prep Method: SW3010A
Seq Number: 929893 — Matrix: Water — Date Prep: 12.13.13
MB Sample Id: 648365-1-BLK — LCS Sample Id: 648365-1-BKS — LCSD Sample Id: 648365-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Manganese	0.00120	1.00	0.946	95	0.944	94	80-120	0	20	mg/L	12.15.13 20:18	

Analytical Method: Manganese by SW-846 6010C — Prep Method: SW3010A
Seq Number: 929783 — Matrix: Ground Water — Date Prep: 12.12.13
Parent Sample Id: 475359-001 — MD Sample Id: 475359-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Manganese	0.0125	0.0125	0	20	mg/L	12.12.13 16:38	J

Analytical Method: Manganese by SW-846 6010C — Prep Method: SW3010A
Seq Number: 929888 — Matrix: Water — Date Prep: 12.13.13
Parent Sample Id: 475358-001 — MD Sample Id: 475358-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Manganese	0.904	0.895	1	20	mg/L	12.15.13 19:18	

Analytical Method: Manganese by SW-846 6010C — Prep Method: SW3010A
Seq Number: 929893 — Matrix: Water — Date Prep: 12.13.13
Parent Sample Id: 475358-023 — MD Sample Id: 475358-023 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Manganese	0.00220	<0.000900	NC	20	mg/L	12.15.13 20:24	U

Analytical Method: Manganese by SW-846 6010C — Prep Method: SW3010A
Seq Number: 929783 — Matrix: Ground Water — Date Prep: 12.12.13
Parent Sample Id: 475359-001 — MS Sample Id: 475359-001 S — MSD Sample Id: 475359-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Manganese	0.0125	1.00	0.963	95	0.930	92	80-120	3	20	mg/L	12.12.13 16:39	

Analytical Method: Manganese by SW-846 6010C — Prep Method: SW3010A
Seq Number: 929888 — Matrix: Water — Date Prep: 12.13.13
Parent Sample Id: 475358-001 — MS Sample Id: 475358-001 S — MSD Sample Id: 475358-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Manganese	0.904	1.00	1.83	93	1.81	91	80-120	1	20	mg/L	12.15.13 19:20	

Environmental International Corporation

GPA Bainbridge

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Seq Number: 929893 Matrix: Water Date Prep: 12.13.13
Parent Sample Id: 475358-023 MS Sample Id: 475358-023 S MSD Sample Id: 475358-023 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Manganese	0.00220	1.00	0.928	93	0.910	91	80-120	2	20	mg/L	12.15.13 20:31	

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**
Seq Number: 929414 Matrix: Water
MB Sample Id: 929414-1-BLK LCS Sample Id: 929414-1-BKS LCSD Sample Id: 929414-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Methane	<0.00187	0.0886	0.0693	78	0.0811	92	41-112	16	20	mg/L	12.06.13 17:22	
Ethane	<0.00203	0.181	0.108	60	0.109	60	42-107	1	20	mg/L	12.06.13 17:22	
Ethene	<0.0020	0.13	0.059	45	0.054	42	31-107	9	20	mg/L	12.06.13 17:22	

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**
Seq Number: 929419 Matrix: Water
MB Sample Id: 929419-1-BLK LCS Sample Id: 929419-1-BKS LCSD Sample Id: 929419-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Methane	<0.00187	0.0886	0.0886	100	0.0887	100	41-112	0	20	mg/L	12.07.13 10:46	
Ethane	<0.00203	0.181	0.128	71	0.140	77	42-107	9	20	mg/L	12.07.13 10:46	
Ethene	<0.0020	0.13	0.058	45	0.085	65	31-107	38	20	mg/L	12.07.13 10:46	F

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**
Seq Number: 929419 Matrix: Water
Parent Sample Id: 475358-018 MS Sample Id: 475358-018 S MSD Sample Id: 475358-018 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Methane	0.00204	0.0886	0.0697	76	0.0715	78	41-112	3	20	mg/L	12.07.13 12:02	
Ethane	<0.00203	0.181	0.109	60	0.111	61	42-107	2	20	mg/L	12.07.13 12:02	
Ethene	<0.0020	0.13	0.065	50	0.069	53	31-107	6	20	mg/L	12.07.13 12:02	

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**
Seq Number: 929414 Matrix: Water
Parent Sample Id: 475358-001 MS Sample Id: 475358-001 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Methane	<0.00187	0.0886	0.0628	71	41-112	mg/L	12.06.13 19:33	
Ethane	<0.00203	0.181	0.0953	53	42-107	mg/L	12.06.13 19:33	
Ethene	<0.0020	0.13	0.054	42	31-107	mg/L	12.06.13 19:33	

Environmental International Corporation

GPA Bainbridge

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C
Seq Number: 929480 Matrix: Water Date Prep: 12.09.13
MB Sample Id: 648025-1-BLK LCS Sample Id: 648025-1-BKS LCSD Sample Id: 648025-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
4,4-DDD	<0.00830	1.00	0.992	99	1.12	112	11-160	12	25	ug/L	12.10.13 12:44	
4,4-DDE	<0.00810	1.00	0.909	91	1.02	102	15-157	12	25	ug/L	12.10.13 12:44	
4,4-DDT	<0.0112	1.00	0.937	94	1.05	105	15-157	11	25	ug/L	12.10.13 12:44	
Aldrin	<0.0102	1.00	0.815	82	0.926	93	12-154	13	25	ug/L	12.10.13 12:44	
Alpha-BHC	<0.00740	1.00	0.828	83	0.958	96	10-149	15	25	ug/L	12.10.13 12:44	
Alpha-Chlordane	<0.00810	1.00	0.825	83	0.971	97	15-140	16	25	ug/L	12.10.13 12:44	
Beta-BHC	<0.00700	1.00	0.857	86	0.952	95	10-151	11	25	ug/L	12.10.13 12:44	
Delta-BHC	<0.00720	1.00	0.726	73	0.809	81	10-155	11	25	ug/L	12.10.13 12:44	
Dieldrin	<0.000450	1.00	0.880	88	1.00	100	14-156	13	25	ug/L	12.10.13 12:44	
Endosulfan I	<0.00790	1.00	0.844	84	0.958	96	12-155	13	25	ug/L	12.10.13 12:44	
Endosulfan II	<0.00900	1.00	0.907	91	1.03	103	16-158	13	25	ug/L	12.10.13 12:44	
Endosulfan Sulfate	<0.00970	1.00	0.962	96	1.07	107	17-159	11	25	ug/L	12.10.13 12:44	
Endrin	<0.0113	1.00	0.983	98	1.08	108	14-169	9	25	ug/L	12.10.13 12:44	
Endrin Aldehyde	<0.00810	1.00	0.815	82	0.857	86	22-148	5	25	ug/L	12.10.13 12:44	
Endrin Ketone	<0.00720	1.00	0.930	93	1.05	105	28-154	12	25	ug/L	12.10.13 12:44	
Gamma-BHC (Lindane)	<0.00700	1.00	0.847	85	0.956	96	8-157	12	25	ug/L	12.10.13 12:44	
Gamma-Chlordane	<0.00700	1.00	0.865	87	0.978	98	18-141	12	25	ug/L	12.10.13 12:44	
Heptachlor	<0.0128	1.00	0.933	93	1.05	105	10-157	12	25	ug/L	12.10.13 12:44	
Heptachlor Epoxide	<0.00830	1.00	0.841	84	0.942	94	15-155	11	25	ug/L	12.10.13 12:44	
Methoxychlor	<0.0105	1.00	1.03	103	1.09	109	25-161	6	25	ug/L	12.10.13 12:44	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	90		83		94		18-126	%	12.10.13 12:44
Decachlorobiphenyl	94		86		96		15-136	%	12.10.13 12:44

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C
Seq Number: 929480 Matrix: Water Date Prep: 12.09.13
MB Sample Id: 648025-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Chlordane	U	ug/L	12.10.13 12:26	

Environmental International Corporation

GPA Bainbridge

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C
Seq Number: 929621 Matrix: Water Date Prep: 12.09.13
MB Sample Id: 648066-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
4,4-DDD	U	ug/L	12.11.13 10:40	
4,4-DDE	U	ug/L	12.11.13 10:40	
4,4-DDT	U	ug/L	12.11.13 10:40	
Aldrin	U	ug/L	12.11.13 10:40	
Alpha-BHC	U	ug/L	12.11.13 10:40	
Alpha-Chlordane	U	ug/L	12.11.13 10:40	
Beta-BHC	U	ug/L	12.11.13 10:40	
Delta-BHC	U	ug/L	12.11.13 10:40	
Dieldrin	U	ug/L	12.11.13 10:40	
Endosulfan I	U	ug/L	12.11.13 10:40	
Endosulfan II	U	ug/L	12.11.13 10:40	
Endosulfan Sulfate	U	ug/L	12.11.13 10:40	
Endrin	U	ug/L	12.11.13 10:40	
Endrin Aldehyde	U	ug/L	12.11.13 10:40	
Endrin Ketone	U	ug/L	12.11.13 10:40	
Gamma-BHC (Lindane)	U	ug/L	12.11.13 10:40	
Gamma-Chlordane	U	ug/L	12.11.13 10:40	
Heptachlor	U	ug/L	12.11.13 10:40	
Heptachlor Epoxide	U	ug/L	12.11.13 10:40	
Methoxychlor	U	ug/L	12.11.13 10:40	
Chlordane	U	ug/L	12.11.13 10:40	

Environmental International Corporation

GPA Bainbridge

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C

Seq Number: 929480 Matrix: Water Date Prep: 12.09.13

Parent Sample Id: 475358-008 MS Sample Id: 475358-008 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
4,4-DDD	<0.00847	1.02	0.995	98	11-160	ug/L	12.10.13 20:28	
4,4-DDE	<0.00827	1.02	0.898	88	15-157	ug/L	12.10.13 20:28	
4,4-DDT	<0.0114	1.02	0.936	92	15-157	ug/L	12.10.13 20:28	
Aldrin	<0.0104	1.02	0.773	76	12-154	ug/L	12.10.13 20:28	
Alpha-BHC	1.68	1.02	2.21	52	10-149	ug/L	12.10.13 20:28	
Alpha-Chlordane	<0.00827	1.02	0.813	80	15-140	ug/L	12.10.13 20:28	
Beta-BHC	1.67	1.02	2.11	43	10-151	ug/L	12.10.13 20:28	
Delta-BHC	3.04	1.02	3.11	7	10-155	ug/L	12.10.13 20:28	X
Dieldrin	0.000522	1.02	0.836	82	14-156	ug/L	12.10.13 20:28	
Endosulfan I	<0.00806	1.02	0.811	80	12-155	ug/L	12.10.13 20:28	
Endosulfan II	<0.00918	1.02	0.878	86	16-158	ug/L	12.10.13 20:28	
Endosulfan Sulfate	<0.00990	1.02	0.969	95	17-159	ug/L	12.10.13 20:28	
Endrin	<0.0115	1.02	0.929	91	14-169	ug/L	12.10.13 20:28	
Endrin Aldehyde	<0.00827	1.02	0.737	72	22-148	ug/L	12.10.13 20:28	
Endrin Ketone	<0.00735	1.02	0.918	90	28-154	ug/L	12.10.13 20:28	
Gamma-BHC (Lindane)	0.0350	1.02	0.798	75	8-157	ug/L	12.10.13 20:28	
Gamma-Chlordane	<0.00714	1.02	0.823	81	18-141	ug/L	12.10.13 20:28	
Heptachlor	<0.0131	1.02	0.914	90	10-157	ug/L	12.10.13 20:28	
Heptachlor Epoxide	<0.00847	1.02	0.883	87	15-155	ug/L	12.10.13 20:28	
Methoxychlor	<0.0107	1.02	0.988	97	25-161	ug/L	12.10.13 20:28	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	73		18-126	%	12.10.13 20:28
Decachlorobiphenyl	65		15-136	%	12.10.13 20:28

QC Summary 475358

Environmental International Corporation

GPA Bainbridge

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C
Seq Number: 929621 Matrix: Water Date Prep: 12.09.13
Parent Sample Id: 475358-021 MS Sample Id: 475358-021 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
4,4-DDD	<0.0847	1.02	0.855	84	11-160	ug/L	12.11.13 15:27	
4,4-DDE	<0.0827	1.02	0.864	85	15-157	ug/L	12.11.13 15:27	
4,4-DDT	<0.114	1.02	0.828	81	15-157	ug/L	12.11.13 15:27	
Aldrin	<0.104	1.02	0.835	82	12-154	ug/L	12.11.13 15:27	
Alpha-BHC	0.999	1.02	1.86	84	10-149	ug/L	12.11.13 15:27	
Alpha-Chlordane	<0.0827	1.02	0.865	85	15-140	ug/L	12.11.13 15:27	
Beta-BHC	37.4	1.02	34.0	0	10-151	ug/L	12.11.13 15:27	X
Delta-BHC	1.39	1.02	1.94	54	10-155	ug/L	12.11.13 15:27	
Dieldrin	0.0304	1.02	0.864	82	14-156	ug/L	12.11.13 15:27	
Endosulfan I	<0.0806	1.02	0.868	85	12-155	ug/L	12.11.13 15:27	
Endosulfan II	<0.0918	1.02	0.922	90	16-158	ug/L	12.11.13 15:27	
Endosulfan Sulfate	<0.0990	1.02	0.788	77	17-159	ug/L	12.11.13 15:27	
Endrin	<0.115	1.02	0.881	86	14-169	ug/L	12.11.13 15:27	
Endrin Aldehyde	<0.0827	1.02	1.06	104	22-148	ug/L	12.11.13 15:27	
Endrin Ketone	<0.0735	1.02	0.858	84	28-154	ug/L	12.11.13 15:27	
Gamma-BHC (Lindane)	0.489	1.02	1.32	81	8-157	ug/L	12.11.13 15:27	
Gamma-Chlordane	<0.0714	1.02	0.820	80	18-141	ug/L	12.11.13 15:27	
Heptachlor	<0.131	1.02	0.705	69	10-157	ug/L	12.11.13 15:27	
Heptachlor Epoxide	<0.0847	1.02	0.946	93	15-155	ug/L	12.11.13 15:27	
Methoxychlor	<0.107	1.02	0.772	76	25-161	ug/L	12.11.13 15:27	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	77		18-126	%	12.11.13 15:27
Decachlorobiphenyl	81		15-136	%	12.11.13 15:27

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☐ Philadephia/New Jersey 610-955-5649
☐ South Carolina 803-543-8099 ☐ Other

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 266745 Page 1 of 3

Company-City: EIC - Alpharetta **Phone:** 770-772-7100

Lab Only: WO# 475358

Proj Name-Location: GPA Bainbridge ☑ Previously done at XENCO **Project ID:** 400007

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific.
It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Proj State: AL, FL, (GA) LA, MS, NC, NJ, PA, SC, TN, TX, UT Other **Proj. Manager (PM):** Alan Sanders

e-Mail Results to ☐ PM or asanders@eicusa.com **Fax No:** 770-772-0555

Invoice to ☐ Accounting ☒ Inc. Invoice with Final Report ☐ Invoice must have a P.O Bill to:

Quote/Pricing: **P.O No:** ☐ Call for P.O.

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA

QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:

Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)

Sampler Name: Will Grant Signature: Will Grant

	Sample ID	Sampling Date	Time	Depth ft/in/m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs	VOCs PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHs	FL PRO DRO GRO MA EPH MA VPH	SVOCs: Full-List DW BN&AE TCL PP Appdx-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	8081B/3660B Organochlorine Pest.	9060A TOC	6010C Manganese	9056A Chloride, Nitrate, Sulfate	RSK-175 Hydrogenses	TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Remarks: Sample Clean-ups are pre-approved as needed	
1	MW-1	12/3/13	9:31		W		X	4	V	V	V										✓	✓	✓		✓					1
2	MW-1A	12/3/13	10:29		W		X	4	V	V	V										✓	✓	✓		✓					2
3	MW-2	12/4/13	7:37		W		X	4	V	V	V										✓	✓	✓		✓					3
4	MW-3	12/4/13	8:49		W		X	4	V	V	V										✓	✓	✓		✓					4
5	MW-4D	12/3/13	11:31		W		X	4	V	V	V										✓	✓	✓		✓					5
6	MW-5A	12/5/13	9:16		W		X	5	V	V	V										✓	✓	✓	✓	✓					6
7	MW-5D	12/5/13	8:22		W		X	5	V	V	V										✓	✓	✓	✓	✓					7
8	MW-6	12/5/13	12:33		W		X	5	V	V	V										✓	✓	✓	✓	✓					8
9	MW-7	12/3/13	13:51		W		X	4	V	V	V										✓	✓	✓		✓					9
10	MW-8	12/5/13	10:13		W		X	5	V	V	V										✓	✓	✓	✓	✓					10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) A.P.G. H. Tate	12/6/2013 8:44	2) Ward Smith	12/6/13 8:44
3)		4)	
5)		6)	

Total Containers per COC: Cooler Temp: 2.1°C

Upon signings this COC you accept XENCO terms and Conditions unless otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved.

Preservatives: Various (**V**), HCl pH<2 (**H**), H2SO4 pH<2 (**S**), HNO3 pH<2 (**N**), Asbc Acid&NaOH (**A**), ZnAc&NaOH (**Z**), (Cool,<4C) (**C**), None (**NA**), See Label (**L**), Other (**O**) _____

Cont. Size: 4oz (**4**), 8oz (**8**), 32oz (**32**), 40ml VOA (**40**), 1L (**1**), 500ml (**5**), Tedlar Bag (**B**), Various (V), Other _____ **Cont. Type:** Glass Amb (**A**), Glass Clear (**C**), Plastic (**P**), Various (**V**)

Matrix: Air (**A**), Product (**P**), Solid(**S**), Water (**W**), Liquid (**L**)

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Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previoiusly negotiated under a fully executed client contract.

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ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 266746 Page 2 of 3

Company-City EIC-Alpharetta	**Phone** 770-772-7100
Proj Name-Location GPA Bainbridge ☑ Previously done at XENCO	**Project ID** 400007
Proj State: AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, TX, UT Other	**Proj. Manager (PM)** Alan Sanders
e-Mail Results to ☐ PM or asanders@eicusa.com	**Fax No:** 770-772-9555
Invoice to ☐ Accounting ☒ Inc. Invoice with Final Report ☐ Invoice must have a P.O Bill to:	
Quote/Pricing:	**P.O No:** ☐ Call for P.O.
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA	
QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:	
Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)	
Sampler Name Will Grant	Signature Will Grant

Lab Only: WO# 475358

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific.
It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Remarks

Addn: From: Date Rcv by:

	Sample ID	Sampling Date	Time	Depth ft" in" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs	VOCs PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHs	FL PRO DRO GRO MA EPH MA VPH	SVOCs: Full-List DW BN&AE TCL PP Appdx-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	8081B/3660B Organochlorine Pesticides	9060A TOC	6010C Manganese	9056A Chloride, Nitrate, & Sulfate	RSK-175 Hydrogases	TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Sample Clean-ups are pre-approved as needed
1	MW-10	12/4/13	16:20		W		X	4	V	V	V										✓	✓	✓	✓	✓				
2	MW-11	12/3/13	7:59		W		X	4	V	V	V										✓	✓	✓	✓	✓				
3	MW-12	12/4/13	11:30		W		X	4	V	V	V										✓	✓	✓	✓	✓				
4	~~MW-13~~	~~12/4/13~~																											
5	MW-14	12/5/13	11:41		W		X	5	V	V	V										✓	✓	✓	✓	✓				
6	~~MW-15~~																												
7	MW-16	12/4/13	13:28		W		X	4	V	V	V										✓	✓	✓	✓	✓				
8	MW-17	12/4/13	10:41		W		X	4	V	V	V										✓	✓	✓	✓	✓				
9	MW-18	12/3/13	15:38		W		X	4	V	V	V										✓	✓	✓	✓	✓				
10	MW-19	12/3/13	14:52		W		X	4	V	V	V										✓	✓	✓	✓	✓				

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) A.P.G. A. Jantzen	12/6/13 8:41	2)	12/6/13 8:44
3)		4)	
5)		6)	

Total Containers per COC: Cooler Temp: 2.1 °C

Upon signings this COC you accept XENCO terms and Conditions unless otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved.

Preservatives: Various (**V**), HCl pH<2 (**H**), H2SO4 pH<2 (**S**), HNO3 pH<2 (**N**), Asbc Acid&NaOH (**A**), ZnAc&NaOH (**Z**), (Cool,<4C) (**C**), None (**NA**), See Label (**L**), Other (**O**) _____

Cont. Size: 4oz (**4**), 8oz (**8**), 32oz (**32**), 40ml VOA (**40**), 1L (**1**), 500ml (**5**), Tedlar Bag (**B**), Various (V), Other _____ **Cont. Type:** Glass Amb (**A**), Glass Clear (**C**), Plastic (**P**), Various (**V**)

Matrix: Air (**A**), Product (**P**), Solid(**S**), Water (**W**), Liquid (**L**)

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☐ Philadephia/New Jersey 610-955-5649
☐ South Carolina 803-543-8099 ☐ Other

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 266747

Company-City EIC-Alpharetta	**Phone** 770-772-7100
Proj Name-Location GPA Bainbridge ☒ Previously done at XENCO	**Project ID** 400007
Proj State: AL, FL, (GA), LA, MS, NC, NJ, PA, SC, TN, TX, UT Other	**Proj. Manager (PM)** Alan Sanders
e-Mail Results to ☐ PM or asanders@eicusa.com	**Fax No:** 770-772-0555
Invoice to ☐ Accounting ☒ Inc. Invoice with Final Report ☐ Invoice must have a P.O Bill to:	
Quote/Pricing:	**P.O No:** ☐ Call for P.O.
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:	
Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)	
Sampler Name Will Grant	Signature Will Grant

Lab Only: CWO# 475358

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific.
It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

| | Sample ID | Sampling Date | Time | Depth ft/in/m | Matrix | Composite | Grab | # Containers | Container Size | Container Type | Preservatives | VOCs Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs | VOCs PP TCL DW Appdx-1 Appdx-2 CALL Other: | PAHs | FL PRO DRO GRO MA EPH MA VPH | SVOCs: Full-List DW BN&AE TCL PP Appdx-2 CALL | OC Pesticides PCBs Herbicides OP Pesticides | Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2 | SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs) | EDB / DBCP | 8081B/3660B Organochlorine Pesticides | 9060A TOC | 6010C Manganese | 9056A Chloride, Nitrates, Sulfate | RSK-175 Hydrogases | | |

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Florida Testing Services, LLC

Client: Environmental International Corporation

Date/ Time Received: 12/06/2013 08:44:00 AM

Work Order #: 475358

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : #61

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2.1	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6 *Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**N/A**	
#8 Sample instructions complete on Chain of Custody?	**Yes**	
#9 Any missing/extra samples?	**Yes**	Extra container in cooler upon receipt for 9056A (Chloride, Nitrate, Sulfate) for sample MW-22 not listed on COC.
#10 Chain of Custody signed when relinquished/ received?	**Yes**	
#11 Chain of Custody agrees with sample label(s)?	**Yes**	
#12 Container label(s) legible and intact?	**Yes**	
#13 Sample matrix/ properties agree with Chain of Custody?	**Yes**	
#14 Samples in proper container/ bottle?	**Yes**	
#15 Samples properly preserved?	**Yes**	
#16 Sample container(s) intact?	**Yes**	
#17 Sufficient sample amount for indicated test(s)?	**Yes**	
#18 All samples received within hold time?	**Yes**	
#19 Subcontract of sample(s)?	**No**	
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	**Yes**	
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	**Yes**	
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: DL	PH Device/Lot#: I16497-8

Checklist completed by: Dario Lagunas Date: 12/06/2013

Checklist reviewed by: Eben Buchanan Date: 12/06/2013

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

THIRD VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT E
MONTHLY SUMMARY OF HOURS

Environmental International Corporation
GPA VIRP
October 27, 2013 through March 31, 2014

TASKS	Oct 27 - 31, 13	Nov 13	Dec 13	Jan 14	Feb 14	Mar 14	TOTAL
Task 4.1 Prelim planning & preparation	0	0	0	1	1	0	2
Task 4.2 Supplemental VIRP tasks	27	37	24	49	0	4	141
Task 4.3 RSW area soil remediation	0	38	3	1	34	39	114
Task 4.4 Drainage swale remediation	27	115	2	4	0	0	148
Task 4.5 Groundwater remediation	22	46	162	60	13	327	629
Task 4.6 Meetings and site visits	0	26	0	21	0	0	47
Task 4.7 Health and Safety	0	5	39	12	0	0	56
Total Hours	**76**	**266**	**228**	**148**	**48**	**370**	**1,135**

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

THIRD VIRP SEMI-ANNUAL PROGRESS REPORT

APPENDIX A
POTENTIAL ECOLOGICAL RECEPTOR REPORT

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

POTENTIAL ECOLOGICAL RECEPTOR REPORT

April 29, 2014

Submitted To:
GEORGIA ENVIRONMENTAL PROTECTION DIVISION
Georgia Department of Natural Resources
Response and Remediation Program
Suite 1462 East Tower
2 Martin Luther King Jr. Drive, S.E.
Atlanta, Georgia 30334

Prepared for:
GEORGIA PORTS AUTHORITY
P.O. Box 2406
Savannah, Georgia 31402

Prepared by:
ENVIRONMENTAL INTERNATIONAL CORPORATION
161 Kimball Bridge Road, Suite 100, Alpharetta, GA 30009, USA
Phone 770.772.7100 • Fax 770.772.0555
http://www.eicusa.com

1.0 INTRODUCTION

The Voluntary Investigation and Remediation Plan (VIRP), that the Georgia Environmental Protection Division (EPD) approved on November 2, 2012, proposed utilizing the Georgia Natural Heritage Program (GNHP) or other expert resources to determine if potential ecological receptors such as rare, impaired, and critically impaired plant or animal species would be affected at the site from the constituent of concern (COC) present within the three areas of concern (AOC) (EIC, 2012). At the Georgia Ports Authority Bainbridge Terminal (site), located at 1321 Spring Creek Road (Georgia Highway 253) in Bainbridge, Decatur County, Georgia, benzenehexachloride (BHC) is the primary COC. This report documents EIC's evaluation of the potential ecological receptors.

As discussed in the VIRP, BHC released to soil, sediments, and water, is broken down to less toxic substances by algae, fungi, and bacteria, over a period of time (EIC, 2012). Therefore, only potential exposure points will be shown and no assumptions will be made as to the effect of long term or short term exposure due to those potential exposure points of BHC or BHC derivatives. Potential direct and indirect exposure will be based on proximity and accessibility to the three main AOCs at the site, shown in Figure 1. Direct exposure is defined as the species that may be affected from direct dermal contact or ingestion of soil contaminated with the COCs located at the AOCs. Indirect exposure is defined as the species ingesting plants or animals that have had direct exposure to COCs.

AOC-1, shown in Photo 1, is located adjacent to the rock salt warehouse (RSW), along the western edge of the main paved thoroughfare and extends west into a nearby wooded section. AOC-1 has a security fence installed along its perimeter as an engineering soil management measure. Additionally surface soils at AOC-1 are below risk reduction standards (RRS). AOC-2, shown in Photo 2, is located within the asphalt pavement surrounding of warehouse 3 (W.H. 3). AOC-3, shown in Photo 3, is located along drainage ditches which border warehouses 2 and 3. Following the field activities and data collected in this report, EIC determined that surface soils in AOC-3 were also below RRS and detection limits.

2.0 DATA COMPILATION

EIC conducted data mapping using Quantum GIS (QGIS) and available data from the Georgia GIS Clearinghouse and National Wetlands Inventory databases (Georgia GIS, 2013). The GIS layer for each vertebrate rare species was derived from reference material from the University of Georgia, College of Environment and Design, Natural Resources Spatial Analysis Laboratory (NARSAL). These layers were recorded as ESRI binary grid layers with 90 meter square resolution. The plant species habitat was derived from a shape layer from the National Wetlands Inventory database under the U.S. Fish and Wildlife Services. Each layer was imported into QGIS and was then adjusted to

the appropriate quadrangle to encompass the Bainbridge site.

3.0 RECEPTOR EVALUATION

Using the Georgia Natural Heritage Program (GNHP) database, maintained by the Georgia State Department of Natural Resources (DNR) Wildlife Resources Division (WRD), EIC determined that within quarter quadrangle code 3008485SW, the site area would be known as the Bainbridge SW Quadrangle. Within the Bainbridge SW Quadrangle, potential habitat data was discovered for 13 rare species and no potential habitat area was discovered for impaired or critically impaired species (DNR, 2013). The 13 rare species at the site consist of 12 animals and 1 plant as summarized in Table 1. Each rare species was evaluated for its potential to exist at the site location and whether they would be considered potential receptors. The following subsections discuss each category of species.

3.1 Mollusks

3.1.1 Riverine Mollusks

Referring to Table 1, five of the seven different species of mollusks listed for the Bainbridge SW Quadrangle are riverine mollusks. Considering that the site is located in an area composed of mixed forested and open land and since the nearest riverine mollusk habitat area is the Flint River that is located approximately 680 feet away from the nearest AOC, riverine mollusks were not mapped or considered in this analysis. These species include the Purple Bankclimber, Shinyrayed Pocketbook, Southern Elktoe, Gulf Moccasinshell, and Inflated Spike.

3.1.2 Lacustrine Mollusks

Standing water provides a lacustrine habitat near the confluence of the site's drainage ditch feature and the Flint River. Although the confluence point is down-gradient of AOC 3 it is unlikely there is potential for direct or indirect exposure since the COCs in the surface soils are below RRS. The standing water is usually at 1 foot of depth or less continuously for approximately 220 feet upstream from the intersection of the Flint River and the southern drainage ditch.

This habitat is suitable for two of the seven previously mentioned species of mollusks listed in Table 1, the Downy Rainbow, and Florida Floater. Figure 2 shows the location of the previously mentioned lacustrine habitat area and Photo 4 shows the location from upstream of the Flint River intersection. Based on a visual survey, EIC determined that overland flow from the three AOCs does not have the potential to reach the habitat due to the steep berms present on the west side of the drainage ditches, shown in Photo 5.

3.2 Plants

3.2.1 Bulrush

The only rare plant species located within the Bainbridge SW Quadrangle is the bulrush plant. It is a wetland grass plant which has become endangered due to habitat loss. To determine the potential habitat area for this plant at the Bainbridge site the National Wetlands Inventory database was utilized to show all nationally protected wetland areas near the areas of concern. Figure 3 shows the location of suitable habitat for the Bulrush plant (U.S. FSW, 2013). The Bulrush's potential habitat area includes wetland marshes and swamps (EOL, 2013). The nearest wetland area shown on Figure 3 is located to the west of AOC-1. Although the wetland is within approximately 130 feet of AOC-1, similar to the lacustrine mollusks discussed in section 3.1.2, surface soil in the AOCs is below RRS and therefore it is unlikely that there is a potential for direct or indirect exposure.

3.3 Reptiles

3.3.1 Barbour's Map Turtle

Figure 4 shows the location of suitable habitats for the Barbour's Map Turtle (NARSAL, 1998), which is a Georgia State protected reptile. The turtle's habitat area includes the Flint River, its adjacent banks, and the lacustrine habitat area discussed in section 3.1 (EOL, 2013). Since the Flint River shoreline is at least 200 feet away from the nearest AOC, the turtles are unlikely to come in contact with the three AOCs.

3.3.2 Alligator Snapping Turtle

Figure 5 shows the location of suitable habitat for the Alligator Snapping Turtle (NARSAL, 1998), which is a Georgia State protected reptile. This species habitat includes major bodies of water such as lakes, rivers, and reservoirs and their surrounding banks (EOL, 2013). Figure 5 shows that the three AOCs do not encroach upon their habitat, similar to the Barbour's Map Turtle discussed in section 3.3.1. Their potential habitat area is more than 600 feet from their habitat and therefore it is unlikely that exposure to COCs will take place.

3.3.3 Eastern Diamondback Rattlesnake

Figure 6 shows the location of suitable habitat for the Eastern Diamondback Rattlesnake (NARSAL, 1998). This species preferred habitat area includes large tracts of wooded areas with plenty of leaf cover and abandoned farms, fields, and prairies (EOL, 2013). Figure 6 shows that their potential habitat area is adjacent to AOC-1. Similar to the lacustrine mollusks discussed in section 3.1.2, direct or indirect exposure of the Diamondback Rattlesnake to COCs is unlikely since the COCs in the

surface soil at AOC-1 are below RRS.

3.4 Birds

3.4.1 Bald Eagle

Figure 7 shows the location of a suitable habitat for the Bald Eagle that is classified as a Georgia State protected bird (NARSAL, 1998). The habitat for this species includes areas surrounding major bodies of water such as lakes, rivers, and reservoirs (EOL, 2013). Although Figure 7 shows the habitat area for this species to be along the Flint River, it is possible that the eagles venture into the areas of concern while foraging for food, due to their high level of mobility. . Similar to Bulrush and eastern diamondback Rattlesnakes, discussed in sections 3.2 and 3.4, direct or indirect exposure of the Bald Eagles to COCs is unlikely since the COCs in the surface soil at AOC-1 and AOC-3 are below RRS.

3.4.2 Barn Owl

Figure 8 shows the location of suitable habitat for the Barn Owl (NARSAL, 1998). This species habitat includes a variety of areas including rural areas and cityscapes. They are usually found in open habitats, such as grasslands and marshes (EOL, 2013). Figure 8 shows that their main habitat area is to the North Northwest of the Bainbridge site which none of the three AOCs encroach upon. Much like the Bald Eagle, the Barn Owl is a predatory bird and has a high level of mobility while foraging. However, for reasons discussed in section 3.4.1, direct or indirect exposure of the Barn Owls to COCs is unlikely.

4.0 RECEPTOR SURVEY

On November 8, 2013, EIC conducted a reconnaissance survey of the site to determine if the species discussed in section 3.0 were present. EIC performed this survey in a systematic way starting with a perimeter walk of each AOC and conducting transects into potential habitat areas. During the survey, key elements were inspected to determine if each species of concern had the possibility of being present at each AOC currently or in the future. This included transects which matched site observations to known habitat conditions, visually scanned for tracks or nests, listened for bird calls, and visually scanned for each species itself. In addition to each AOC inspection, EIC made a visual observation and determined potential flow directions for surface runoff from each AOC. The overland flow directions were then followed and similar transects were conducted along the flow path. Each AOC inspection was documented with photos and written notes. The following subsections discuss each AOC's inspection.

4.1 AOC-1 Inspection

The AOC-1 survey began at the Southeastern corner of the large grass field within AOC-1, shown in Photo 1. The survey then continued along the proposed fence line, shown in Figure 1, throughout the wooded area discussed in section 1.0; continued Northeast and back to the Southeastern corner of the large grass field. Throughout the perimeter walk, transects were conducted to investigate potential habitat areas. The two habitat areas closest to AOC-1 are the Eastern Diamondback Rattlesnake and the Bulrush plant. The flow path for AOC-1 is contained by a ditch along its eastern edge near the main paved thoroughfare and slopes downward toward the west on the western edge of AOC-1 with a local maximum in the center. Utilizing the techniques discussed in section 4.0 the two habitat areas predicted by the NARSAL binary grid model were inspected. All habitat areas for species of concern for AOC-1 were confirmed, however no signs of any species of concern were found.

4.2 AOC-2 Inspection

Similar to the AOC-1 survey, the AOC-2 survey began with a perimeter walk starting with the Northwest corner of AOC-2. As discussed in section 1.0, AOC-2 is primarily asphalt pavement and does not provide a suitable habitat for many of the species discussed in section 3.0. Transects were not conducted at AOC-2, because the perimeter inspection provided a clear line of sight throughout the entire AOC. AOC-2's overland flow is sloped away from WH 3 in all directions. Along its Eastern edge overland flow collects in the rail tracks east of AOC-2. Along its Western edge, overland flow moves west toward the main thoroughfare. On its Northern edge, overland flow moves toward the drainage ditch located in the Northwestern part of AOC-3. Utilizing the techniques described in section 4.0 EIC determined that none of the species of concern's habitat were located within AOC-2. A panoramic view of AOC-2's west side perimeter can be seen in Photo 2.

4.3 AOC-3 Inspection

Similar to AOC-1 and AOC-2, the survey of AOC-3 began with a perimeter walk. Starting at the Northwest corner of AOC-3 and continuing along the Western bank of the drainage ditches and subsequently the Eastern bank as well, the entire perimeter of AOC-3 was inspected for elements described in section 4.0. During the perimeter walk, similar to AOC-1 discussed in section 4.1, transects were conducted to investigate potential habitat areas.

At the southern end of AOC-3, past the concrete bridge across the drainage ditches, standing water was observed at approximately 0 to 1 feet of depth at the center of the drainage ditch. No standing or running water was observed upstream from the concrete bridge.

The overland flow for AOC-3 migrates to the south along the drainage ditch and into the Flint River. While following the overland flow path in AOC-3 EIC observed a large pool of standing water near the intersection of the drainage ditch and the Flint River which forms a lacustrine environment with many types of marsh plants. Utilizing the techniques discussed in section 4.0, EIC confirmed that there is potential habitat for lacustrine mollusks near the intersection of the site's drainage feature and the Flint River, however none were observed. Additionally, no other habitat areas for other species of concern were found.

5.0 FINDINGS

Based on the data published by the Georgia DNR Wildlife Resources Division and NARSAL, as well as the ecological survey conducted by EIC, EIC has concluded that no rare species have the potential for direct or indirect exposure to COCs within any of the three AOCs. EIC will continue to document any signs of rare species that may occur at the site.

6.0 REFRENCES

Georgia GIS, 2013. *Georgia GIS Clearinghouse*, https://data.georgiaspatial.org

DNR, 2013. *Georgia Department of Natural Resources, Wildlife Resources Division.* Natural Heritage Database: www.georgiawildlife.com/node/1358

EIC, 2012. *BHC Remediation Bainbridge Terminal, Bainbridge Georgia VIRP Application*, Bainbridge, Georgia, July 27, 2012.

EOL, 2013. *Encyclopedia of Life.* Wildlife Information Database: http://eol.org/

NARSAL, 1998. *Natural Resources Spatial Analysis Laboratory*. https://data.georgiaspatial.org

FWS, 2013. *United States Fish & Wildlife Service.* National Wetlands Database: http://www.fws.gov/wetlands/data/state-downloads.html

TABLES

Table 1
Rare Species Located in Quadrangle Code 3008485SW, Bainbridge, Georgia

Class	Scientific Name	Common Name	Federally Protected	Georgia State Protected	Common Habitat Type
Mollusk	*Elliptoideus sloatianus*	Purple Bankclimber	Yes	No	It is found in sand, fine gravel or muddy sand substrates in moderate current (Heard, 1975) in large rivers or streams (Clench and Turner, 1956). In the ACF Basin it was found primarily at main channel sites (small to large river channels) in slow to moderate current with sand/limestone substrates, and frequently in waters over 3 m in depth (Brim Box and Williams, 2000; USFWS, 2003; 2006). In the Ochlockonee River system it was found in the main channel in sandy substrates in moderate to swift currents.
	Hamiota subangulata	Shinyrayed Pocketbook	Yes	No	Habitat information is lacking on this species. Historically, it was found in large rivers to small creek habitats (USFWS, 2000). Van der Schalie (1938; 1981) indicates that it generally occupies creeks and smaller rivers. It has been found associated with swift flowing riffles and gravel-cobble substrates in the Conasauga River. Recently, it has been found in stable sand and in gravel in small streams above the Fall Line (USFWS, 2000).
	Alasmidonta triangulata	Southern Elktoe	No	Yes	This species is found in big rivers (e.g. mainstem Apalachicola) in muddy sand with moderate current (Heard, 1979). Historically, this species was found in larger creeks and river mainstems and seemed to prefer sandy mud, particularly in and around rock pools (Clench and Turner, 1956).
	Medionidus penicillatus	Gulf Moccasinshell	Yes	No	Freshwater. No specific information available due to rarity.
	Elliptio purpurella	Inflated Spike	No	Yes	This species is found in medium to large rivers with primarily sand and limestone rock substrates (Brim Box and Williams, 2000).
	Villosa villosa	Downy Rainbow	No	No	The rainbow is found in cool, clear, upper reaches of small to medium streams. Substrates it inhabits include sandy mud, coarse sand, or gravel, in areas near faster currents.
	Utterbackia peggyae	Florida Floater	No	No	This species inhabits sandy or muddy substrates of reservoirs, ponds, lakes and slow-moving streams (Heard, 1979) and is tolerant of impoundment (Johnson, 1965; Brim Box and Williams, 2000).
Plant	*Scirpus erismanae*	Bulrush	No	No	Wetlands
Reptile	*Graptemys barbouri*	Barbour's Map Turtle	No	Yes	Graptemys barbouri favors sections of free-flowing rivers with limestone outcrops, which support good populations of freshwater snails, but use of silty channels is also widespread.
	Macrochelys temminckii	Alligator Snapping Turtle	No	Yes	Some natural habitat has been drained and replaced by agriculture in recent years, however, actual habitat loss, in terms of loss of rivers and their banks, may be small (Ewert 1997). The turtle has been found in reservoirs throughout their range and diking of rivers to create winter waterfowl refuges has increased potential habitat in Arkansas and the lower Mississippi Valley and may offset some of the degraded habitat (Ewert 1997).
	Crotalus adamanteus	Eastern Diamond-backed Rattlesnake	No	No	Habitats include pine and wiregrass flatwoods, pine-palmetto flatwoods, longleaf pine-turkey oak hills, rosemary scrub, mesophytic and coastal maritime hammocks, xeric hammocks, barrier islands and coastal scrub habitats, vicinity of wet savannas, wet prairies (during dry periods), dry prairie, mixed pine-hardwood successional woodland, and abandoned farms and fields (especially near pine-dominated habitats), particularly areas with abundant cover (Mount 1975, Dundee and Rossman 1989, Palmer and braswell 1995, Tennant 1997, Ernst and Ernst 2003, Campbell and Lamar 2004). Large tracts of habitat are most suitable.
Bird	*Haliaeetus leucocephalus*	Bald Eagle	No	Yes	Breeding habitat most commonly includes areas close to (within 4 km) coastal areas, bays, rivers, lakes, reservoirs, or other bodies of water that reflect the general availability of primary food sources including fish, waterfowl, or seabirds (Andrew and Mosher 1982, Green 1985, Campbell et al. 1990). For example, in Saskatchewan lakes, bald eagle density was positively correlated with abundance of large fishes (Dzus and Gerrard 1993).
	Tyto alba	Barn Owl	No	No	Barn owls are found in a variety of habitats from cities to rural areas. They are usually found at low elevations in open habitats, such as grasslands, deserts, marshes and agricultural fields. They need cavities for nesting, such as hollow trees, cavities in cliffs and riverbanks, nest boxes, caves, church steeples, barn lofts, and hay stacks.

Notes: All habitat information for this table was obtained from the Encyclopedia of Life database. Taxonomy information was derived from the Department of Natural Resources Georgia Natural Heritage Program database.

FIGURES

Legend

- AOC - 1 Fence Line
- Buildings On Site
- Areas of Concern

Notes:

W.H. = Warehouse

R.S.W. = Rock Salt Warehouse

AOC = Area of Concern

Sources: Background aerial map provided by the United States Geological Survey (USGS) 2010

N

100 0 100 200 300 ft

Figure 1: Areas of Concern

Revisions		Designed By: W.G.	Drawn By: W.G.
No.	Date	Checked By: A.S.	Approved By: R.M.
		Seal:	

Georgia Ports Authority
Bainbridge Terminal
Bainbridge, Georgia

Environmental International Corp.
161 Kimball Bridge Road
Alpharetta, Georgia 30009

Scale: 1:4,700	Date: 11/01/2013	File: 400007 - 4.2 - GPA Bainbridge	Sheet No.: 1

Legend

- AOC - 1 Fence Line
- Buildings On Site
- Areas of Concern
- Flow Lines
- Lacustrine Mollusk Habitat

Notes:

W.H. = Warehouse

R.S.W. = Rock Salt Warehouse

AOC = Area of Concern

Sources: Lacustrine Mollusk Habitat area derived from EIC field observations during ecological survey conducted on November 8, 2013.

N

100 0 100 200 300 ft

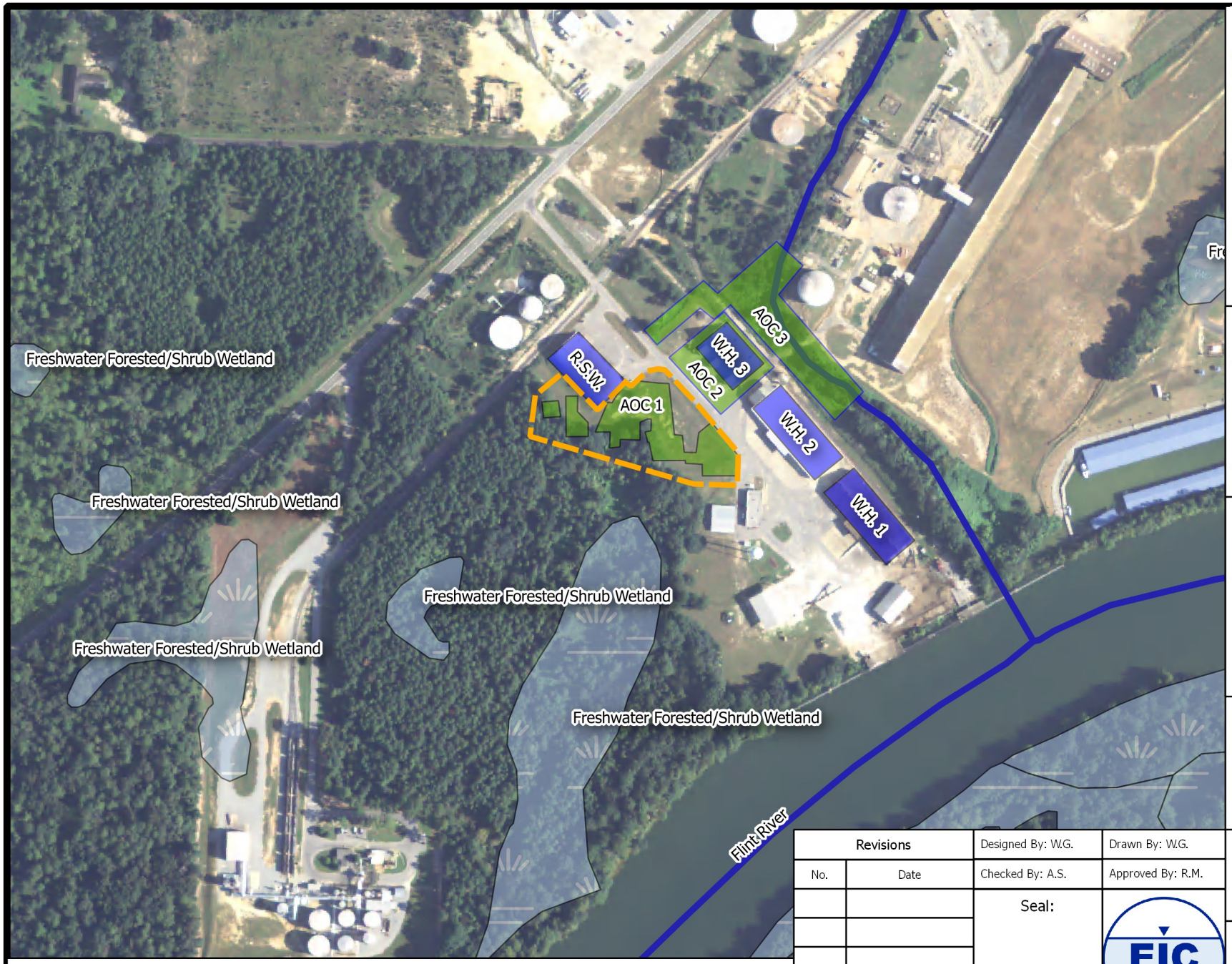
Figure 2: Lacustrine Mollusk Habitat

Revisions		Designed By: W.G.	Drawn By: W.G.
No.	Date	Checked By: A.S.	Approved By: R.M.
		Seal:	EIC

Georgia Ports Authority
Bainbridge Terminal
Bainbridge, Georgia

Environmental International Corp.
161 Kimball Bridge Road
Alpharetta, Georgia 30009

Scale: 1:4,700	Date: 11/13/2013	File: 400007 - 4.2 - GPA Bainbridge	Sheet No.: 1



Legend

- AOC - 1 Fence Line
- Buildings On Site
- Areas of Concern
- Flow Lines

National Protected Wetlands

- Freshwater Forested/Shrub Wetland

Notes:

W.H. = Warehouse

R.S.W. = Rock Salt Warehouse

AOC = Area of Concern

Sources: Map is derived from National Wetlands Inventory Database from the U.S. Fish and Wildlife Services.

N

100 0 100 200 300 ft

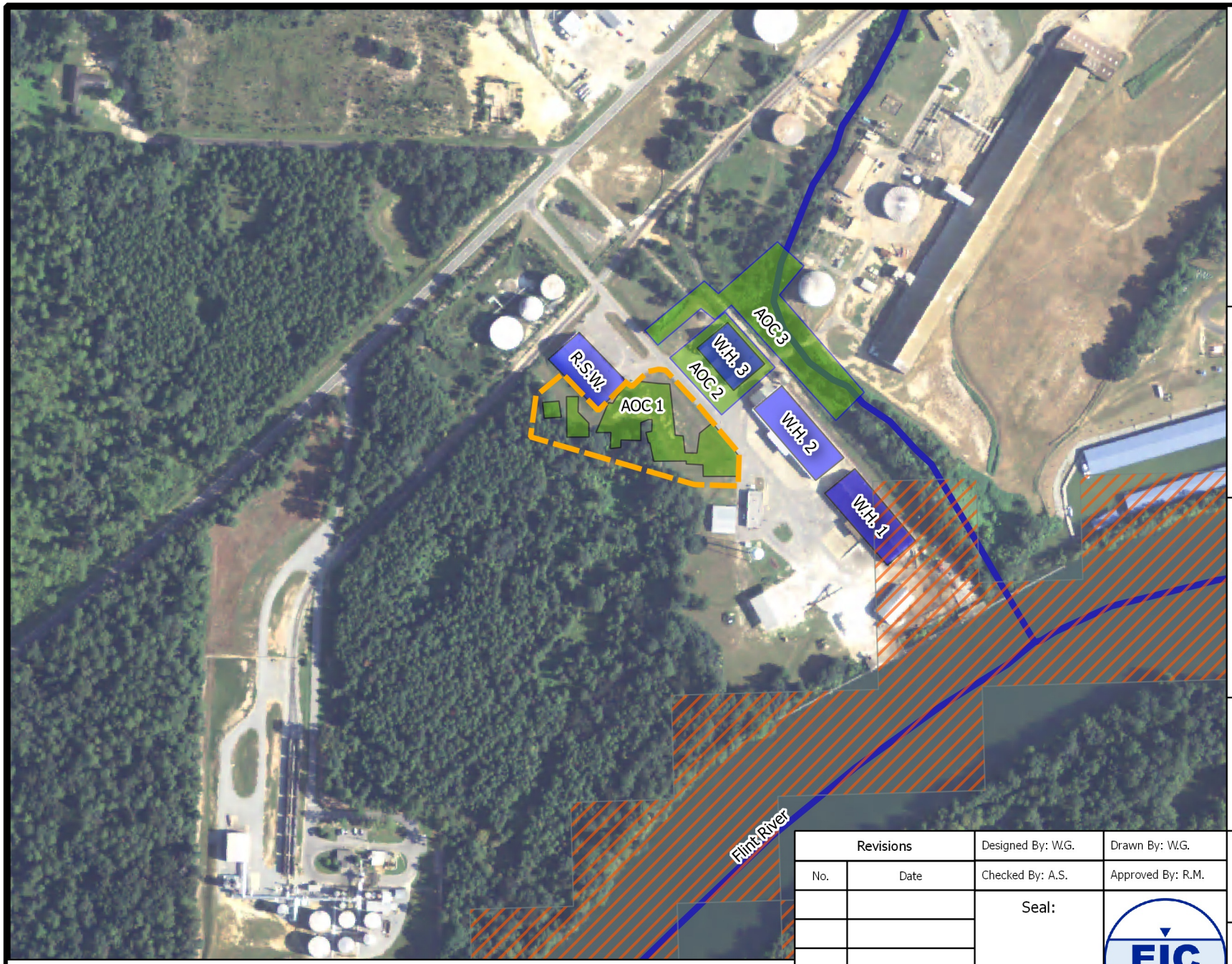
Figure 3: Bulrush, Wetland Plant Habitat Area

Revisions		Designed By: W.G.	Drawn By: W.G.
No.	Date	Checked By: A.S.	Approved By: R.M.
		Seal:	EIC

Georgia Ports Authority
Bainbridge Terminal
Bainbridge, Georgia

Environmental International Corp.
161 Kimball Bridge Road
Alpharetta, Georgia 30009

Scale: 1:4,700 | Date: 11/13/2013 | File: 400007 - 4.2 - GPA Bainbridge | Sheet No.: 1



Legend

- AOC - 1 Fence Line
- Buildings On Site
- Areas of Concern
- Flow Lines

Barbour's Map Turtle

- Habitat Area

Notes:

W.H. = Warehouse

R.S.W. = Rock Salt Warehouse

AOC = Area of Concern

Sources: Barbour's Map Turtle habitat area information derived from the University of Georgia, College of Environment and Design, Natural Resources Spatial Analysis Laboratory (NARSAL) ESRI binary grid habitat model, 1998.

N

100 0 100 200 300 ft

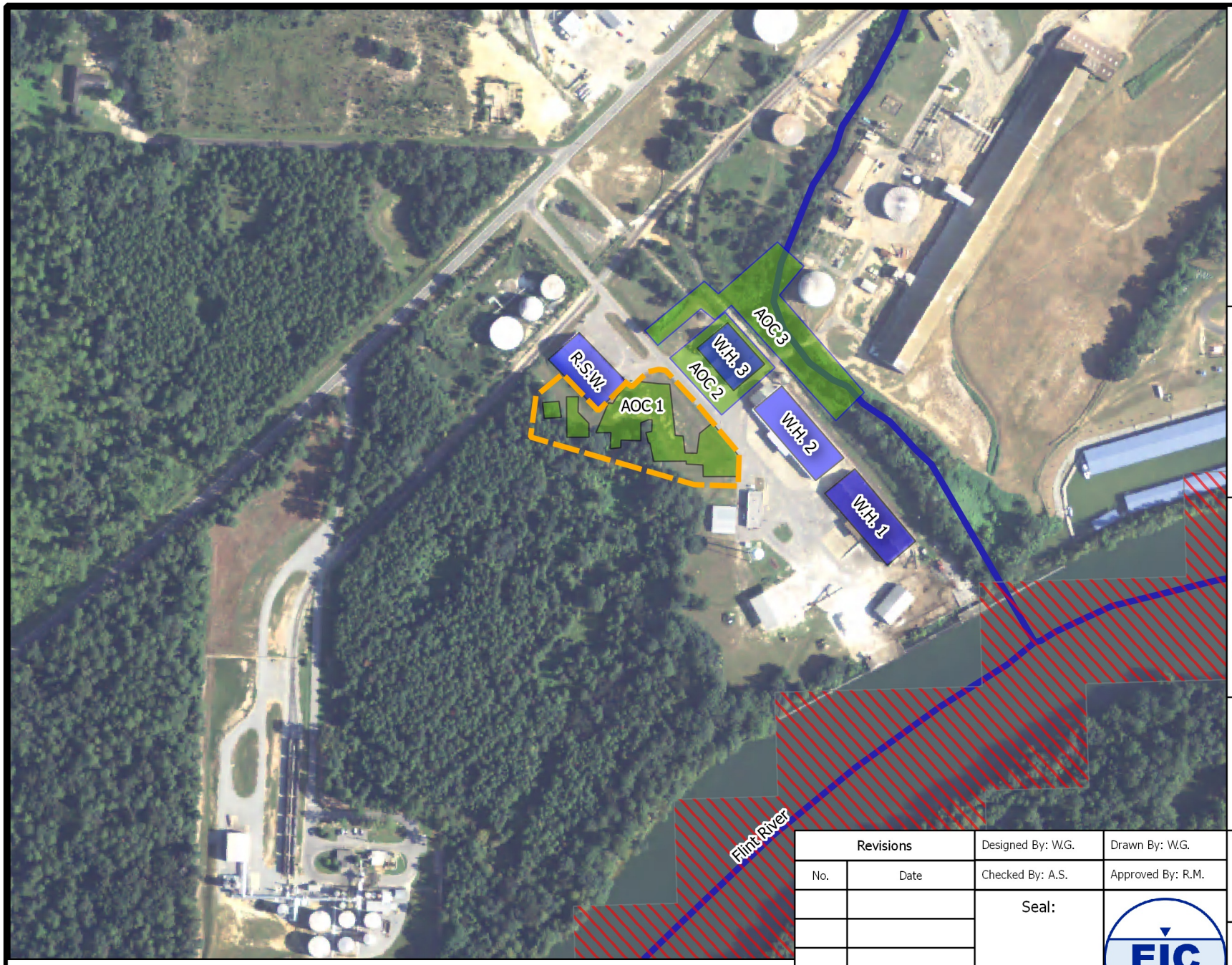
Figure 4: Barbour's Map Turtle Habitat

Revisions		Designed By: W.G.	Drawn By: W.G.
No.	Date	Checked By: A.S.	Approved By: R.M.
		Seal:	

Georgia Ports Authority
Bainbridge Terminal
Bainbridge, Georgia

Environmental International Corp.
161 Kimball Bridge Road
Alpharetta, Georgia 30009

Scale: 1:4,700	Date: 11/13/2013	File: 400007 - 4.2 - GPA Bainbridge	Sheet No.: 1



Legend

- AOC - 1 Fence Line
- Buildings On Site
- Areas of Concern
- Flow Lines

Aligator Snapping Turtle

- Habitat Area

Notes:

W.H. = Warehouse

R.S.W. = Rock Salt Warehouse

AOC = Area of Concern

Sources: Aligator Snapping Turtle habitat area information derived from the University of Georgia, College of Environment and Design, Natural Resources Spatial Analysis Laboratory (NARSAL) ESRI binary grid habitat model, 1998.

N

100 0 100 200 300 ft

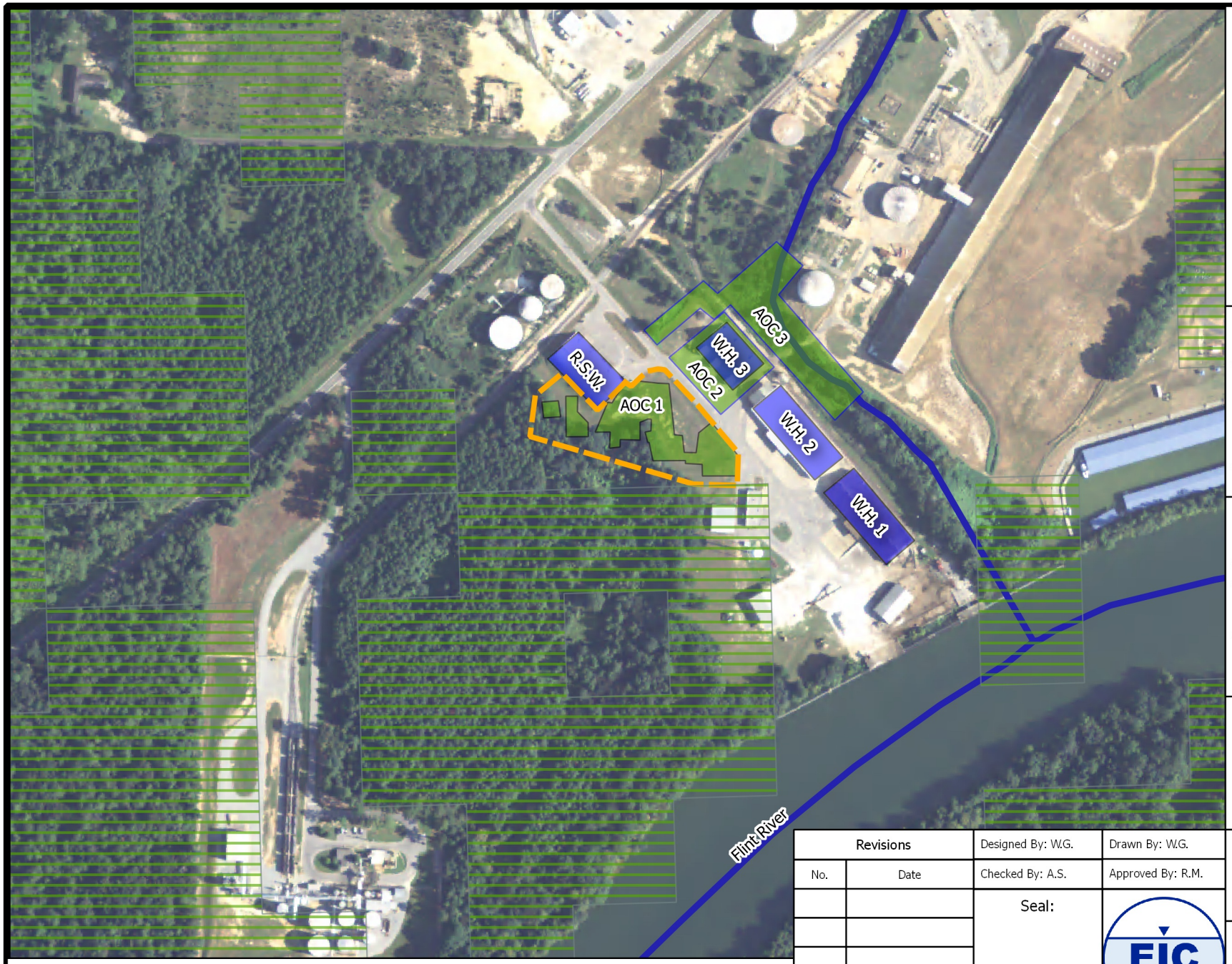
Figure 5: Aligator Snapping Turtle Habitat

Revisions		Designed By: W.G.	Drawn By: W.G.
No.	Date	Checked By: A.S.	Approved By: R.M.
		Seal:	

Georgia Ports Authority
Bainbridge Terminal
Bainbridge, Georgia

Environmental International Corp.
161 Kimball Bridge Road
Alpharetta, Georgia 30009

Scale: 1:4,700	Date: 11/13/2013	File: 400007 - 4.2 - GPA Bainbridge	Sheet No.: 1



Legend

- AOC - 1 Fence Line
- Buildings On Site
- Areas of Concern
- Flow Lines

Eastern Diamondback Rattlesnake

- Habitat Area

Notes:

W.H. = Warehouse

R.S.W. = Rock Salt Warehouse

AOC = Area of Concern

Sources: Eastern Diamondback Rattlesnake habitat area information derived from the University of Georgia, College of Environment and Design, Natural Resources Spatial Analysis Laboratory (NARSAL) ESRI binary grid habitat model, 1998.

N

100 0 100 200 300 ft

Figure 6: Eastern Diamondback Rattlesnake Habitat

Revisions		Designed By: W.G.	Drawn By: W.G.
No.	Date	Checked By: A.S.	Approved By: R.M.
		Seal:	EIC

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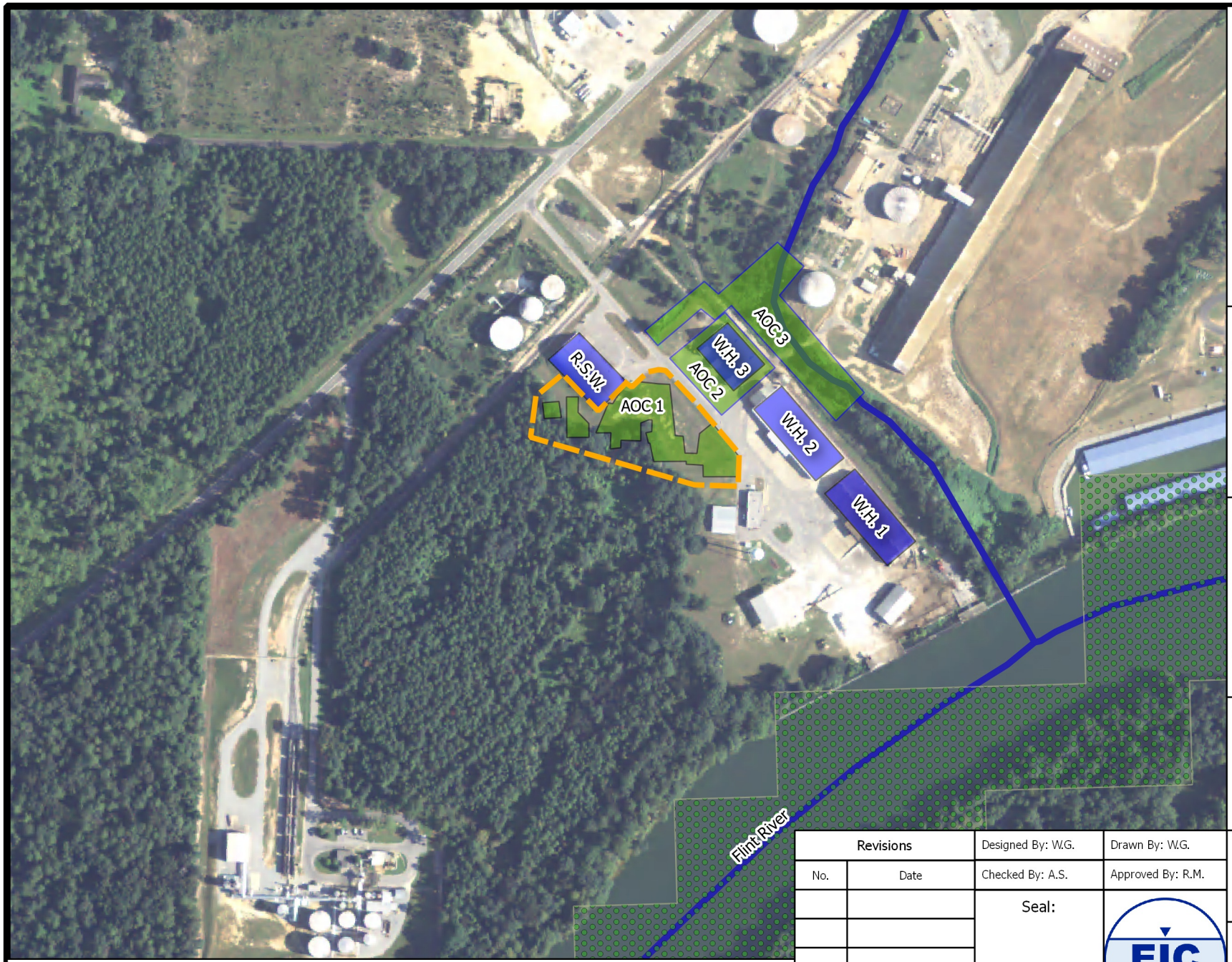

Legend

- AOC - 1 Fence Line
- Buildings On Site
- Areas of Concern
- Flow Lines

Bald Eagle

- Habitat Area

Notes:

W.H. = Warehouse

R.S.W. = Rock Salt Warehouse

AOC = Area of Concern

Sources: Bald Eagle habitat area information derived from the University of Georgia, College of Environment and Design, Natural Resources Spatial Analysis Laboratory (NARSAL) ESRI binary grid habitat model, 1998.

N

100 0 100 200 300 ft

Figure 7: Bald Eagle Habitat

Revisions		Designed By: W.G.	Drawn By: W.G.
No.	Date	Checked By: A.S.	Approved By: R.M.
		Seal:	EIC

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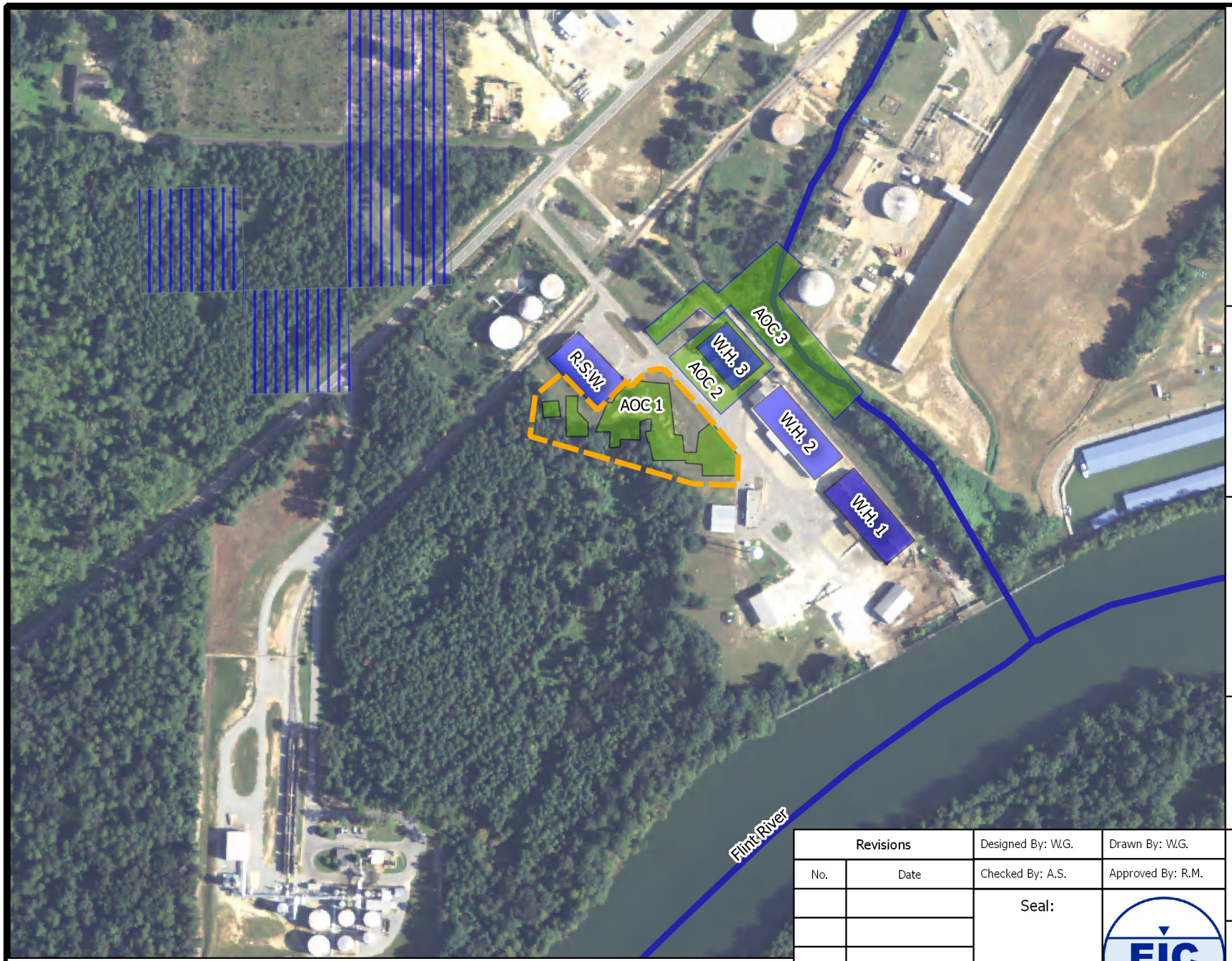
161 Kimball Bridge Road
Alpharetta, Georgia 30009

Scale: 1:4,700	Date: 11/13/2013	File: 400007 - 4.2 - GPA Bainbridge	Sheet No.: 1



Legend

- AOC - 1 Fence Line
- Buildings On Site
- Areas of Concern
- Flow Lines

Barn Owl

- Habitat Area

Notes:

W.H. = Warehouse

R.S.W. = Rock Salt Warehouse

AOC = Area of Concern

Sources: Barn Owl habitat area information derived from the University of Georgia, College of Environment and Design, Natural Resources Spatial Analysis Laboratory (NARSAL) ESRI binary grid habitat model, 1998.

N

100 0 100 200 300 ft

Figure 8: Barn Owl Habitat

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PHOTOS

Photo 1: AOC-1 Southeastern Corner of Grass Field – Facing Northwest Showing AOC-1

Photo 2: AOC-2 West Side Panoramic View – Facing East Showing AOC-2

Photo 3: AOC-3 West Side Bank of Drainage Ditch Near WH 2 – Facing East Showing AOC-3 Drainage Ditch

Photo 4: AOC-3 Intersection of Southern Drainage Ditch and Flint River – Facing South Showing Lacustrine Habitat Area

Photo 5: AOC-3 Railroad Thruway West of Drainage Ditch – Facing North Showing High Berms On West Side Bank of AOC-3 Drainage Ditch

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THIRD VIRP SEMI-ANNUAL PROGRESS REPORT

APPENDIX B (CD)
THIRD VIRP SEMI-ANNUAL PROGRESS REPORT