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January 17, 2017

Dr. Montague McPherson
Georgia Department of Natural Resources
Response and Remediation Program
2 Martin Luther King, Jr. Drive, S.E.
Suite 1054 East Tower
Atlanta, Georgia 30334

Subject: **Compliance Status Report and Uniform Environmental Covenant**
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:

In a letter dated November 2, 2012, the Georgia Environmental Protection Division (EPD) approved a Voluntary Investigation and Remediation Plan (VIRP) for the above referenced site. On behalf of Georgia Ports Authority (GPA), Environmental International Corporation (EIC) is pleased to submit the Compliance Status Report (CSR) and Uniform Environmental Covenant (UEC) in compliance with the VIRP.

Enclosed are the following materials concerning the CSR and UEC:

1. One duly endorsed bound original copy of the Compliance Status Report (CSR).
2. One Compact Disc containing the CSR Exhibits in searchable PDF format.
3. A signed original Uniform Environmental Covenant (UEC) documents.
4. Two Compact Discs each containing the complete CSR and UEC documents in searchable PDF format.

If you have any questions regarding this submittal, please contact Mr. Christopher Novack of GPA at 912-964-3922 or me at the above location.

Sincerely,
ENVIRONMENTAL INTERNATIONAL CORPORATION

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

Cc: Christopher Novack, GPA

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

COMPLIANCE STATUS REPORT

January 17, 2017

Submitted to:

GEORGIA DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

Response and Remediation Program, Land Protection Branch

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Prepared for:

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EXECUTIVE SUMMARY

The Georgia Ports Authority (GPA) owns and operates a truck and railroad terminal in Bainbridge, Georgia. An east-west oriented railroad within the property divides the site into North and South parcels. During a Phase I assessment conducted in 1993, pesticide constituents of concern (COCs) were discovered at the site, which primarily consisted of α, β, δ, and γ isomers of benzenehexachloride (BHC). Upon reporting this finding, the Georgia Environmental Protection Division (EPD) listed the site on the state Hazardous Site Inventory (HSI) in 1994. In 2009, GPA prepared and submitted a draft corrective action plan (CAP) to the EPD. Additional site investigations progressively revealed more soil with COCs in both the North and South parcels. GPA conducted soil excavation in the North Parcel and divested a portion of that parcel. The excavated soils were transferred to the Decatur County landfill for disposal.

To address the remaining soil contamination and groundwater contamination, GPA retained Environmental International Corporation (EIC). EIC developed a Voluntary Investigation and Remediation Plan (VIRP) under the Georgia Voluntary Remediation Program Act. In July 2012, EIC submitted the VIRP which was approved by EPD in November 2012. The VIRP proposed the delineation of COCs in soil and the implementation of institutional and engineering control measures to mitigate potential exposure of contaminated soils and groundwater to onsite workers and visitors. The VIRP also proposed management of contaminated soils and monitored natural attenuation (MNA) of contaminated groundwater as final remedy under Type 5 risk reduction standards (RRS).

Immediately after the VIRP was approved, EIC implemented the VIRP tasks on behalf of GPA. In implementing the tasks, EIC successfully delineated the soil and groundwater contamination within the GPA property. EIC also successfully implemented the proposed remedy for soil and groundwater, as discussed in the accompanying compliance status report (CSR).

Referring to the site conceptual model, include in the VIRP, the only remaining site risk pertaining to the BHC contamination would be the potential incidental contact of contaminated soil or groundwater to onsite workers or contractors. These types of exposure are only expected to occur during intrusive activities such as soil excavation. To address these risks, EIC developed institutional controls that will be implemented by GPA.

The results of the fate and transport model, as discussed in the CSR, indicates that the potential migration of dissolved COC in groundwater would have a negligible impact on the water quality of the Flint River. Also, any potential COC migration to the River from this site would not result in downstream river concentrations in excess of either federal or state surface water quality standards - even under the most conservative worst-case scenario utilized in the model. Nevertheless, as described in the VIRP, GPA will implement annual groundwater monitoring to evaluate the attenuation of dissolved COCs and monitor the stability of the prevailing COC groundwater plumes. Since EIC has successfully implemented the tasks defined in the VIRP, GPA petition's EPD to delist the site from the State of Georgia Hazardous Site Response Act (HSRA) Site Inventory.

COMPLIANCE STATUS REPORT

CERTIFICATION OF COMPLIANCE 391-3-19-.06(4)(a)

"I certify under penalty of law that this report and all attachments were prepared under my direction in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, 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. Based on my review of the findings of this report with respect to the risk reduction standards of the Rules for Hazardous Site Response, Rule 391- 3-19-.07, I have determined that this site is in compliance with Type 5 risk reduction standards."

Christopher B. Novack, P.E.
Printed Name

Director of Engineering and Facilities Maint.
Title

Georgia Ports Authority
2 Main Street
Garden City, Georgia 31408
912-964-3922

Signature

1/9/2017
Date

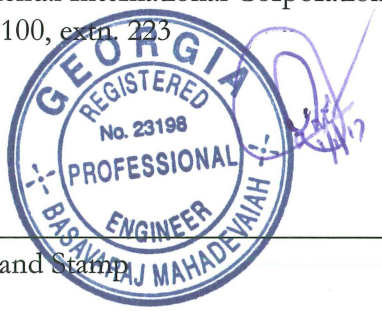
COMPLIANCE STATUS REPORT

QUALIFIED GROUNDWATER SCIENTIST CERTIFICATION

"I certify that I am a qualified groundwater scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in groundwater hydrology and related fields as demonstrated by state registration and completion of accredited university courses that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by myself or by a subordinate working under my direction."

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

1/17/17
Date



Signature and Stamp

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LIST OF ATTACHMENTS

1-1 Draft Uniform Environmental Covenant

1-2 CSR Review Checklist

1-3 Deeds and Legal Description

1-4 Current Decatur County Tax Plat Map

1-5 Current Site Property and Surrounding Properties Owner Database

1-6 Original Site Property Boundaries

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4-1 Publishing Notice for CSR

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A VIRP Application (CD)

B First VIRP Semi-annual Progress Report (CD)

C Second VIRP Semi-annual Progress Report (CD)

D Third VIRP Semi-annual Progress Report (CD)

E Fourth VIRP Semi-annual Progress Report (CD)

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G Sixth VIRP Semi-annual Progress Report (CD)

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SECTION

1

1 INTRODUCTION

The Georgia Ports Authority (GPA) owns and operates a railway and truck terminal in Bainbridge, Georgia. The facility was formerly also a barge terminal and an unused dock remains at the southern edge of the property on the Flint River. A railroad within the property, that runs parallel to the Spring Creek Road, divides the GPA terminal property (site) into North and South parcels.

During a Phase I assessment, conducted in 1993, pesticide constituents of concern (COCs) were discovered at the site which primarily consisted of benzenehexachloride (BHC). Based on additional investigations, EPD listed the site on the state Hazardous Site Inventory (HSI) in 1994. Subsequently, additional site investigations progressively revealed soil COCs in other areas. In compliance with the Georgia EPD regulations, GPA prepared a corrective action plan (CAP), which was submitted to the EPD to address the on-site liabilities.

Pending the approval of the CAP, GPA site contractors indicated that 720 cubic yards of contaminated soil in the North Parcel required remediation. Ultimately, however, the contractors excavated 4,000 cubic yards of contaminated soil from the North Parcel that was transferred to the Decatur County Landfill. Subsequently, in 2011, GPA divested an eastern portion of the North Parcel to Agrium.

In the South Parcel, additional soil investigations resulted in the delineation of additional horizontal and vertical extent of pesticide COCs. In an area adjacent to a warehouse, known as the Rock Salt Warehouse (RSW), located in the South Parcel, COCs in soil extended much deeper than originally defined. COCs in Soil were also detected beneath another warehouse, known as Warehouse 3 (WH3), located to the east of the RSW. Also, one of several shallow soil samples collected within a drainage swale and a ditch lying north and east of Warehouse 3, respectively, indicated the presence of pesticide COCs. Based on these findings, Environmental International Corporation (EIC) determined that the excavation and disposal of vast quantities of soil material, proposed by the former contractor, would increase potential risks to receptors, be impractical, and cost-prohibitive. Therefore, EIC prepared an alternative technical approach under the Georgia Voluntary Remediation Program (VRP).

Under the VRP, EIC prepared a Voluntary Investigation and Remediation Plan (VIRP) and application dated July 27, 2012. The VIRP, submitted to EPD, summarized the alternative technical approach for addressing the prevailing COCs in soil and groundwater at the site. The VIRP is included as Exhibit A.

The comprehensive VIRP also provided a pathway for GPA to reach a remedial endpoint for both soil and groundwater COCs within a proposed five-year timeframe. In compliance with the VIRP timeline, GPA submitted seven VIRP semi-annual progress reports to document the remedial progress at the site. These reports are included as Exhibits B through H.

Although the original VIRP proposed a five-year plan, GPA was able to complete the VIRP tasks within four years. With the establishment of Type V RRS for both soil and groundwater and in conjunction with a separate draft Uniform Environmental Covenant (UEC) document, GPA is effectively managing both the soil and groundwater COCs at the site.

This Compliance Status Report (CSR) chronicles the tasks completed under the VRP, defines the current state of compliance, and establishes a long-term management plan for soil and groundwater monitoring. The completed CSR Review Checklist for this report is provided as Attachment 1-1.

1.1 SITE LOCATION AND DESCRIPTION

The Georgia Ports Authority (GPA) Bainbridge Terminal facility (site) is located at 1321 Spring Creek Road in Bainbridge, Decatur County, Georgia. GPA constructed the facility in 1958 and it is currently located on an approximately 65-acre parcel at the Apalachicola-Chattahoochee-Flint Waterway, or Tri-Rivers System in Decatur County, Georgia.

The facilities at the site currently consist of a bulkhead/dock formerly used for loading and unloading goods from barges, an office building, a maintenance shed, five closed warehouses, one open warehouse, a railroad spur, asphalt paved driveway and parking lots, grass lawns, and a forested area. Figure 1-1 is a site layout map that illustrates the North and South parcels. Prior to Agrium's acquisition of a portion of GPA property on July 31, 2011, the North Parcel extended further towards the northeast between Spring Creek road and the railroad to Parcel 20B, currently owned by the City of Bainbridge. Figure 1-2 presents a milestone chart with key terminal activities pertaining to the environmental issues at the site.

GPA has historically utilized the facility to ship and receive a variety of bulk cargo via barge traffic, as an economical alternative to other methods of transport in the region. The terminal is used for the storage and distribution of various agricultural products and other commodities. Various buildings at the terminal provide long- and short-term storage for a total of 93,000 square feet (9,292 square meters) of covered storage. Currently the facility stores non-hazardous solid bulk materials. CSX Transportation provides Class I rail service from a railroad spur located at the facility.

1.2 LEGAL DESCRIPTION & TAX PLAT

The available two warranty deeds describing the original 91.25 acres of property purchased on March 18, 1959 and a deed describing the purchase of an additional 13.75 acres on July 23, 1986 are located in Attachment 1-2. Attachment 1-2 also contains a legal description prepared by GPA that describes the extent of the current GPA property. Attachment 1-3 is a current Decatur County tax plat map provided to EIC on June 25, 2012 by the Decatur County Board of Tax Assessors office. This map illustrates the parcel numbers and property boundaries of the site and of surrounding properties, as currently defined by this office. Attachment 1-4, derived from the tax assessors' office website, is a table listing the current property owners of the site and each parcel adjacent to the site as defined by this office. Attachment 1-5 illustrates the original site property boundaries as described in the two 1959 deeds and one 1986 deed. According to GPA, in addition to the properties purchased in the attached deeds, GPA has acquired two other properties, transferred a railroad right-of-way (ROW), and has sold seven portions of its property. EIC was unable to obtain each deed regarding each of these property transfers, however, based on GPA's description of the current property, EIC prepared Attachment 1-6, which illustrates the current extent of GPA property (at a total of 64.6 acres, according to GPA's legal description) and of the adjacent Agrium property. According to GPA, this legal description more accurately illustrates the site boundaries than the boundaries shown on the county tax plat map.

Referring to Attachments 1-4 and 1-6, the site property itself consists of parcel numbers 20, 21A, and small portions of parcels 18 and 19. Also referring to these attachments, the properties immediately adjacent to the site are currently owned by Agrium and the City of Bainbridge to the northeast; the Flint River to the southeast; the Ergon Terminal to the west; and the Spring Creek Road to the northwest. Several land parcels are located immediately to the north of Spring Creek Road. From west-to-east, these parcels are owned by Barber Thurman (wooded undeveloped), Sweetriver Land, LLC (wooded undeveloped), Jackson Glaphrey and Etal (undeveloped), Valbay, Inc., and Georgia Gulf Sulfur.

1.3 PRESENT AND FUTURE LAND USE

The site and surrounding properties are zoned for heavy industrial use with no reported plans for future rezoning. The Flint River is classified as a recreational waterway with applicable water quality standards. Section 2.7 describes potential receptors, given these conditions.

SECTION

2

2 SITE CONCEPTUAL MODEL

A Site Conceptual Model (SCM), also known as Conceptual Site Model, is a summary of the site conditions as they pertain to a COCs release. Typically, the model defines release sources, extent of the plume, likely fate and transport mechanisms, potential exposure pathways, and potential receptors that could be impacted. EIC included a preliminary SCM in the VIRP. The SCM was subsequently updated in subsequent semi-annual reports to reflect the knowledge gained during the implementation of the VIRP tasks. The following sections are derived from the latest SCM update, which was submitted in the Fifth VIRP Semi-annual Progress Report (Exhibit F).

2.1 SITE HYDROGEOLOGY

EIC characterized the subsurface geology at the site and an adjacent property utilizing available monitoring well lithological boring logs. Based on these logs, EIC correlated the lithology between selected wells and prepared three hydrogeological cross-sections to illustrate the subsurface at the site. Figure 2-1 depicts a plan view of the cross-section traces across the site. Cross Section A-A' extends primarily from northwest to southeast across the entire length of the GPA property and is illustrated in Figure 2-2. Cross Sections B-B' and C-C', illustrated in Figure 2-3 and Figure 2-4, respectively, extend from southwest to northeast. Cross Section B-B' extends along the northwestern GPA and northwestern Agrium property boundaries that abut and are parallel to the Spring Creek Road ROW and Cross Section C-C' extends along the southeastern GPA property boundary near and parallel to the Flint River.

From Figures 2-2, 2-3, and 2-4, it is apparent that the site is generally underlain by unconsolidated alluvial deposits. The primary water-bearing strata consist of medium-to-fine sand with some gravel deposits near the Flint River. A more in-depth evaluation of the site geology and hydrogeology is included in the most recent SCM (Exhibit F).

To characterize the aquifer characteristics, GPA conducted a series of slug tests in March 2014 in three wells (MW-6, MW-17, and MW-21). From these tests, GPA determined that the average hydraulic conductivity at the site is $2.345E^{-02}$ cm/second. GPA also computed the hydraulic gradient by utilizing the September 2013 potentiometric surface map. From this computation, GPA

determined that the hydraulic gradient at the site is 0.0006 feet per feet (dimensionless). Explicit details of the aquifer characterization is included in the most recent SCM (Exhibit F).

2.2 CONSTITUENTS OF CONCERN

As discussed in the VIRP, the primary constituents of concern (COCs) at the site, in both soil and groundwater, are pesticides. The predominant pesticide COC is benzenehexachloride (BHC), also known as hexachlorocyclohexane, which is composed of isomers, α-, β-, δ-, and γ-BHC. γ-BHC is also known by the former trade name Lindane. Data from historical report also indicate presence of two metal constituents namely chromium and lead. In a comments letter dated November 2, 2012, EPD specified that sampling for metals was not required. As such, the VIRP tasks discussed in this report only address the pesticide COCs.

2.3 RELEASE SOURCES

The actual source of the COCs present in the subsurface beneath the site is unknown but is likely to be a result of both on-site and off-site releases. Consistently, however, the highest concentrations of COCs in groundwater were found at hydraulically up-gradient locations of the site – in the vicinity of the north shoulder of the Spring Creek Road ROW. It is noteworthy that no groundwater monitoring wells are known to exist on the properties immediately to the north of this ROW.

2.3.1 On-Site Sources

According to GPA, at least one shipment of solid BHC was received at the site several decades ago. Historical records necessary to confirm this event have not become available. In the 1960's, an undisclosed paved location in the northwest portion of the site was reportedly used for the storage of the BHC. During site redevelopment activities in the early 1970s, top soil from that location were reportedly excavated and transferred to the southern portion of the current warehouse identified as the Rock Salt Warehouse (RSW) in Figure 1-1 and the area immediately south of the RSW. During to the construction of the RSW in 1988, site leveling/grading operation apparently resulted in a soil mound currently located to the south of the RSW (Exhibit A).

2.3.2 Off-Site Sources

Based on historical reports and testimonials, it appears that hydraulically upgradient offsite facilities used BHC in manufacturing or in the distribution of pesticide material. In particular, two off-site facilities were identified as potential source(s) of the COCs present in the North Parcel of the GPA property (Exhibit A).

The first facility was identified as Georgia Gulf Sulfur (GGS) that manufactures sulfur-based pesticide products. According to a company description provided on the GGS website, GGS acquired its site for manufacturing sulfur fungicides and miticides and initiated production in 1959. During a previous site investigation, Mr. Butch Wilson (former Manager of Royster-Clark with 37 years of service) reported that GGS was routinely storing and handling pesticides at its plant. The Royster-Clark facility currently owned by Agrium is located adjacent to GPA. A second eye witness, Mr. Rambo (retired GPA employee) corroborated Mr. Wilson's testimony. In particular, Mr. Rambo stated that he had previously served as a part-time temporary laborer for GGS for packaging BHC material at its facility.

Valbay, Inc., a warehouse facility located at the intersection of Spring Creek Road and Mount Olive Church Road, was identified as a second facility. The actual site activities at this location is unknown.

During the VIRP implementation, EIC has observed a disproportionally large amount of groundwater COCs along the up-gradient north edge of the site and within the Spring Creek Road ROW. This indicates that a potential offsite source may be contributing BHC to the COC plume observed at GPA.

2.3.3 Third-Party Sources

Considering that the site is located in an agricultural area, it is also conceivable that other third-party sources could have contributed additional pesticides that are now found on the site. For instance, BHC, toxaphene, DDT, Aldrin, dieldrin, and other pesticides were historically applied to cotton fields to treat boll weevil infestations in Georgia (Haney, Lewis, and Lambert, 2009). Also, BHC, Guthion, DDT, and other pesticides were routinely sprayed on pine trees in the southeast to treat for cone worm infestation in the 1960s (Merkel, 1964). Other experiments were performed in the Southland Experiment Forest located in the general area where the GPA site is located (Kinloch and Stonecypher, 1969).

2.4 DELINEATION CRITERIA AND RRS

During the draft CAP review, the EPD had approved Type 1 through 4 risk reduction standards (RRS) for both soil and groundwater COCs (CH2M Hill, 2009). The established delineation criteria for both soil and groundwater are tabulated in Tables 2-1 and 2-2, respectively. The established RRS values for both soil and groundwater are tabulated in Tables 2-3 and 2-4, respectively. In preparing the VIRP, EIC obtained EPD approval for utilizing the established RRS values for delineating the extent of COCs in soil and groundwater at the site and to demonstrate compliance. For the site remedy, however, EIC proposed Type 5 RRS. In approving the VIRP, EPD approved Type 5 RRS to demonstrate site compliance.

The final site remedy, therefore, required implementation of Type V RRS with site institutional and engineering controls to manage the COCs.

2.5 EXTENT OF COCs

Characterizing the extent of a release entails delineating the horizontal and vertical extent of the COCs in a multimedia environment. The following paragraphs describe the extents and delineation of constituents of concern (COCs) in soil and groundwater at the site. A more in-depth discussion of sampling techniques, analysis procedures, and sampling handling procedures utilized for delineation is included in Section 3.0.

2.5.1 Soil Delineation

Based on historical sampling events, pesticide COCs were detected in soil samples obtained from both the North and South parcels of the GPA property. A total of 14 sampling events were completed during the period from 1993 through 2012, prior to the VIRP. From these sampling events, a total of 1,468 samples were collected for laboratory analysis from hundreds of soil borings and excavations. These sampling events identified several small "hot spots" in the North Parcel and three hot spots in the South Parcel.

2.5.1.1 Horizontal Delineation

Referring to the 2011 Draft Removal Action and Completion Report (RACR), all soil COCs hot spots in the North Parcel were apparently delineated and remediated (CH2M Hill, 2011a). Following the initiation of the VIRP, the EPD requested that missing soil sampling data be submitted to confirm that soil in the North Parcel had been remediated to RRS standards. EIC compiled historical data from GPA archives and submitted the associated soil and groundwater analytical data in the Fourth VIRP Semi-annual Progress Report (Exhibit E). In the October 2015 VIRP comments letter, EPD indicated that North Parcel remediation was deemed complete. Consequently, soil remediation in the North Parcel is in compliance with RRS (Exhibit E).

In the South Parcel, three hot spots of soil COCs were identified prior to the implementation of the VIRP (GPA, 2012). In preparing the VIRP, EIC designated these hot spots as three areas of concern (AOC). Figure 2-5 illustrates the location of each AOC and former AOC at the site. The first hot spot, designated as AOC-1, is located to the south of the RSW and consists mostly of a grass-covered soil mound. It has been a focus of extensive investigation since 2009. The second hot spot, designated as AOC-2, was defined to be the subsurface soils beneath an asphalt-paved parking lot and WH3, which it surrounds. However, during the VIRP and as per the EPD's request, GPA expanded the boundaries of AOC-2 to extend west to abut a security fence surrounding AOC-1 and to the south to include the footprint of Warehouse 2 (WH2). The third hot spot, based on a single soil sample collected from a single soil boring within a drainage ditch east of WH3, was

designated as AOC-3. Based on subsequent soil sampling, at the previously identified hot spot in AOC-3, however, EIC found no evidence of COCs that exceeded RRS in AOC-3. Based on that sampling data, the EPD stated that AOC-3 is no longer an area of concern.

Figures 2-6 through 2-8 identify sampling locations in AOC-1, AOC-2, and AOC-3, respectively. Table 2-5 tabulates the associated sampling data for all AOCs. From Figure 2-6, soil in AOC-1 is been horizontally delineated. As discussed in Section 3.2, GPA installed a security fence in 2014 along the perimeter of AOC-1 - as an engineering control measure consistent with the approved VIRP (Exhibit A). Referring to Figure 2-7, it is apparent that the soil contamination in AOC-2 was horizontally delineated and the prevailing soil contamination within AOC-1 and AOC-2 can be managed under Type 5 RRS. From Figure 2-8, it is also apparent that the soil in AOC-3 is horizontally delineated.

2.5.1.2 Vertical Delineation

According to the RACR, the vertical extent of soil COCs in the North Parcel was delineated to below RRS levels, since all soil material exceeding the RRS standards were excavated and transferred offsite to an approved landfill (CH2M Hill, 2011a). As discussed in the VIRP, GPA determined that the vertical extent of soil COCs at AOC-1 have been delineated except for two small areas located at depths ranging from 21 to 24 feet below grade. The vertical extent of soil COCs at AOC-2 remains undefined. Since the soils in AOC-1 and AOC-2 are being managed with engineering and institutional controls, no further vertical soil delineation is proposed. The vertical extent of soil contamination in AOC-3 is delineated. In a letter dated July 2, 2014, EPD concurred with EIC that the soils in AOC-3 were fully delineated and no further action was necessary in this area.

2.5.2 Groundwater Delineation

As discussed in the VIRP, based on historical groundwater sampling events, pesticide COCs were detected in groundwater samples obtained from monitoring wells located in both the North and South parcels. A total of 13 groundwater monitoring (sampling and water level gauging) events were completed during the period from 1993 to 2012, prior to the VIRP. To-date, 26 monitoring wells have been installed at the site and currently 25 are being utilized in the site groundwater monitoring program. One well, identified as MW-9, has not been located even after several attempts culminating in an extensive reconnaissance survey. Figure 1-1 illustrates the current monitoring well network at the site.

2.5.2.1 Horizontal Delineation

To review the overall horizontal extent of groundwater COCs, EIC compiled available laboratory analytical data from all sampling events completed at the site. The compiled analytical data is tabulated in Table 3-4. The latest COC maps developed from the data collected during the March 2016 sampling event are illustrated as Figures 2-9 through 2-11.

Based on Figures 2-9 and 2-11, the horizontal extent of the α-BHC and δ-BHC isomers have been delineated within the GPA's site boundary with the exception of the northern boundary of the site, where the plume extends hydraulically up-gradient beyond Spring Creek Road. From Figure 2-10, the β-BHC plume is delineated within the site property boundary with exception to the southern boundary, towards the Flint River, and beyond the northern up-gradient boundary within the Spring Creek Road ROW.

2.5.2.2 Vertical Delineation

Vertical delineation at the site is completed by deep wells MW-14 and MW-17. These wells show that COCs are confined above 50 feet below ground surface. In a July 2, 2014 VIRP comments letter the EPD concurred that vertical delineation of groundwater COCs is complete (EPD, 2014).

2.6 FATE & TRANSPORT

As discussed in the VIRP and subsequent SCM updates, the main purpose of the environmental fate and transport evaluation is to assess the migration potential and related attenuation processes of the released COCs in a multimedia setting. During the implementation of the VIRP, GPA updated and refined this evaluation to determine the potential impacts to possible receptors. The following is GPA's current understanding of fate and transport mechanisms effecting the prevailing BHC soil and groundwater COCs.

Typically, the BHC isomers identified at the site are subject to the following mechanisms

- Physical separation of released product into other states of matter due to sorption, solubility and other equilibrium reactions. Considering that BHC isomers are comprised of solid material, most released material may remain in a solid state mixed in with the native soil material.
- Sorption of the solid constituent of the released product into soil particles – primarily clay and silt;
- Dispersion involving horizontal and vertical spreading of partitioned or leached constituents;
- Dissolution of a small portion of the solid product (solute) into infiltrating precipitation (solvent);
- Diffusion of the dissolved constituent in groundwater - consisting of spreading from concentration gradients;
- Biodegradation by native microorganisms of the dissolved constituent along the migration pathway;
- Other attenuation processes that reduce the dissolved concentrations with time and distance.

Although BHC contaminated soil and groundwater may be subject to the aforementioned mechanisms, soil leachate potential is minimal due to the relative chemical insolubility of BHC in water. Consequently, GPA has identified only three potential transport mechanisms for COCs at the site. The first transport mechanism is the physical separation of the BHC mixing with the soil matrix. The second transport mechanism is the prevailing groundwater COCs that resulted from potential on and off-site sources. Based on BHC's properties, advection or bulk movement of the soil COCs is not possible. Groundwater COCs are therefore subject to dispersion/dissolution, diffusion, and biodegradation. Additional mechanisms could be dust and vapor phase.

2.6.1 Migration Pathways

As discussed in Section 2.6, GPA identified four potential COC migration pathways for the α-BHC, β-BHC, and δ-BHC isomers. The following sections present the latest knowledgebase for each respective mechanism identified.

2.6.1.1 Physical Separation

Typically, surface runoff can carry soil COCs to drainage ditches or swales that ultimately discharge to surface waters. Contaminated sediments deposited in the drainage ditches or swales can leach dissolved contaminants to surface water. However, based on confirmatory sampling conducted in AOC-3, BHC was not found in sediments or soils within either the drainage ditch or swales.

Considering that the BHC is relatively insoluble in water, soil leachate potential is minimal at the GPA site. As discussed in the latest SCM update, included in the Fifth VIRP Semi-annual Progress Report (Exhibit F), the relative insolubility was substantiated through three lines of evidence discussed below.

Laboratory Testing Data

The first line of evidence was derived from an evaluation of laboratory testing data. This evaluation consisted of synthetic precipitation leaching procedure (SPLP) and toxicity characteristic leaching procedure (TCLP) data (GPA, 2012). Both sets of data indicated that the COCs in soil at the site is relatively insoluble and does not easily dissolve.

Soil and Groundwater Analytical Results

The second line of evidence included an in-depth comparison of concentrations of soil and groundwater COCs at the site. Typically soil COCs in the vadose zone have a potential to leach dissolved contaminants from precipitation events or other driving forces. Such a leachate can migrate through the vadose zone by gravity and ultimately reach groundwater. The resulting COCs concentrations in the groundwater would be typically based on the COCs flux in the overlying

zones. Although substantially higher concentrations of soil COCs were present in the South Parcel for several decades, the groundwater COCs detected near the possible source areas have been historically low, indicating minimal soil leachate potential. This finding substantiates that the BHC material in the vadose zone is relatively insoluble during normal precipitation events.

Soil Leachate Potential Evaluation with Comparative Data

The third line of evidence entails a comparison of on-site and off-site soil and groundwater COCs concentrations. Given similar hydrogeological conditions, as well as similar physical, chemical, and biological conditions in the vadose zone, COCs would be expected to have a similar leachate potential at both on and off site locations. EIC therefore compared the vadose zone soil COCs concentrations to groundwater concentrations at two locations with similar subsurface stratigraphy. The first location was the MW-6 area, within the GPA property in the AOC-1 area, and the second location was the MW-22 area, located hydraulically up-gradient of the GPA property to the north of Spring Creek Road.

The deepest soil sample at the MW-22 soil boring was collected from a depth of 10 feet below grade. As such, EIC utilized soil sample data from the sample that most closely represents the same depth in the vicinity of MW-6 in the South Parcel. The water table elevations at MW-6 and MW-22 are 77.27 ft (21.41 ft below TOC) and 77.50 feet (24.79 feet below TOC), respectively (CH2M Hill, 2012).

Referring to the most recent SCM included in Exhibit F, dissolved β-BHC concentrations in groundwater in MW-6 have been as low as 1.6 parts per billion (ppb), although the β-BHC concentrations in the vadose zone at an adjacent soil boring was 14,200 ppb at a depth of 11 to 12 ft below ground surface (bgs). Also, in a soil boring from the adjacent sampling grid in AOC-1, the COCs concentrations were significantly higher at 1,580,000 ppb at 10 feet bgs. Meanwhile, the β-BHC concentration in the groundwater at MW-22 (hydraulically up-gradient of the GPA site) was as high as 33.2 ppb. Such a high groundwater concentration would be expected from a proportionately higher soil COCs in the overlying vadose zone at that location. Referring to the soil sampling data from the MW-22 soil boring, however, the β-BHC concentration in the overlying vadose zone was only 4.18 ppb at 10 feet below grade (GPA, 2012).

The striking contrast in soil and groundwater data between the on-site location at MW-6 versus the hydraulically up-gradient off-site location at MW-22 indicates that high soil COCs levels in the vadose zone at GPA's south parcel in AOC-1 do not equate to higher groundwater concentrations. Consequently, the groundwater COCs beneath the GPA property appears to have originated from a hydraulically up-gradient source. Based on the aforementioned findings, it is also clear that potential leachate from the prevailing contaminated soils in AOC-1 and AOC-2 does not present a significant threat to groundwater.

2.6.1.2 Dissolved Phase Groundwater Transport

Typically, contaminants dissolved in groundwater tend to move with the groundwater flow. Consequently, the peak (area of highest concentration) of the plume would be subject to a migration consistent with seepage velocity through porous media. Depending on the COCs flux, dissolved contaminants can reach down-gradient water wells or discharge to surface water. According to the 2009 Corrective Action Plan (CAP), no drinking water wells were found down-gradient of the GPA site (CH2M Hill, 2009).

Although, as discussed above, the soil leachate potential is minimal, GPA evaluated the current groundwater plume conditions to determine the potential impact of groundwater migrating to surface water bodies. This evaluation included an analysis of complete groundwater mixing into the nearest surface water body down-gradient of the site, the Flint River. From this analysis, further described in Section 3.4, it is apparent that potential COC migration to the River from the site would not result in downstream concentrations in excess of either federal or state surface water quality standards.

2.6.1.3 Dust/Vapor Phase Transport

Dust or vapor phase BHC is a possible transportation mechanism at the site, due to the physical sorption properties of BHC to soil particles. However, as a majority of the contaminated soil at the site is covered by either concrete, stable grass cover, or grassy-woodland land cover, this mechanism is assumed to be minimal. Dust/vapor transport which could be the result of digging or hauling activities are addressed in a contractor health and safety plan developed by GPA and is included in the draft UEC legal instrument created for the site.

2.6.2 Degradation Pathways

Based on a cursory review of published literature, biodegradation appears to be a dominant attenuation mechanism for BHC. The four isomers of BHC (α, β, δ, and γ) are known to degrade under certain subsurface conditions. BHC bioremediation can occur under either aerobic or anaerobic conditions (Langenhoff et al, 2002). In general, under both aerobic and anaerobic conditions, the α and γ isomers biodegrade more rapidly than the δ and β isomers. A more in-depth discussion of both aerobic and anaerobic degradation pathways for BHC are included in the most recent SCM, included in Exhibit F.

2.6.2.1 Natural Attenuation Potential Evaluation with Empirical Data

Regardless of the predominant mechanism for BHC degradation at the site, empirical data collected prior to and during the VRP is invaluable in determining the actual degradation or attenuation occurring at the site. Therefore, in an attempt to define the natural attenuation potential, GPA has

evaluated empirical COC concentration data collected at the site through historical site monitoring and the VIRP program. In this evaluation, GPA utilized the Man Kendall trend analysis tool. To factor out the potential effect of water level fluctuations, GPA only utilized analytical data corresponding to relatively similar groundwater elevations. Since the Mann Kendall analysis tool requires at least four comparable sampling events for trend analysis, GPA utilized the March and April data from 2012 to 2016 for select wells. The only data that met these conditions were derived from samples collected during the spring season (March, April, and May).

Referring to Figure 2-12, the monitoring wells are arranged in order from left to right based on their location relative to the highest concentration at the site - near the Spring Creek Road - to the lowest concentration near the Flint River. As such, wells MW-22 and MW-20 represent the up-gradient portion of the plume that contain the highest total BHC concentrations, wells MW-15, MW-6, and MW-5A represent the mid-gradient portion of the plume, and wells MW-8 and MW-12 represent the down-gradient portion of the plume.

From Figure 2-12, it is apparent that in all three sections of the plume, the concentrations are either decreasing, stable, or have no trend. This indicates that natural attenuation is occurring at a relatively moderate rate at the site.

2.7 POTENTIAL RECEPTORS

2.7.1 Human Health Receptors

According to Agency for Toxic Substance and Disease Registry (ATSDR), humans can be exposed to BHC only through direct contact such as inhalation, ingestion, or dermal contact of BHC contaminated media (ATSDR, 2005). ATSDR also states that BHC has not been produced or used in the United States since 1985. Considering that the only potential BHC storage took place in the 1960s and the soil-related activities took place in the 1980s, vapor-phase COCs are not likely to be persistent in surface soils, eliminating the vapor inhalation hazard. The CAP states, "The alluvial soils and terrace deposits present in the site are not typically used as sources of drinking water." (CH2M Hill, 2009). Additionally, according to the CAP, there are no drinking water wells within the GPA property or within 0.5 to 1 miles from the affected area (CH2M Hill, 2009) eliminating the ingestion hazard. Also, there is no evidence of COCs in surface water resulting from the COCs at the site. Considering that the GPA has implemented engineering controls, the potential for direct human exposure to BHC in soil is limited at the site.

Future exposure would be limited to COCs in groundwater and any portion that can potentially migrate to Flint River or from excavations of the controlled soil areas (AOC-1 and AOC-2) of the site. There are no site drinking water wells or water supply wells used for any other purposes. Also, as discussed in Section 3.4, potential COC migration from site groundwater into the Flint River will

not cause concentrations within the River to exceed either state or federal surface water quality standards. As such, COCs in surface water is not a concern.

2.7.2 Ecological Receptors

According to ATSDR, BHC in soil, sediments, and water, is degraded to less toxic substances by algae, fungi, and bacteria, over a period of time (ATSDR, 2005). To determine if there was a potential for rare, impaired, or critically impaired species to become receptors at the site, EIC conducted a spatial analysis of known species habitat areas and the current AOCs. This analysis was performed utilizing the Georgia Natural Heritage Program (GNHP) database for locations of rare, impaired, and critically impaired species, as well as the Natural Resources Spatial Analysis Laboratory data for species habitat area.

From these data sources, GPA was able to determine that there are no rare, impaired, or critically impaired ecological receptors to the COCs at the site. A full description of each species that was analyzed, as well as maps, which illustrate the locations of the AOCs and the potential habitat areas for each species, are included in EIC's "Potential Ecological Receptors Report" in the most recent SCM included in Exhibit F.

SECTION

3

3 VIRP REMEDIAL PROGRESS

Prior to the VIRP, soil removal and disposal operations were conducted by GPA in the North Parcel of the site. However, soil and groundwater COCs still remained in the South Parcel. Based on a detailed review of the site history and prevailing site conditions, EIC determined that the excavation and disposal of vast quantities of soil material (proposed by the former contractor for the South Parcel) would not only increase potential risks to receptors but was also impractical and cost-prohibitive. Furthermore, groundwater contamination would remain persistent at the site even after soil removal. Therefore, EIC prepared an alternative technical approach under the VRP. On July 27, 2012, EIC submitted the final VIRP and application, on behalf of GPA, which outlined an effective and feasible five-year plan to reach a remedial endpoint for both soil and groundwater COCs at the site.

In the VIRP, the GPA proposed management of contaminated soils and monitored natural attenuation (MNA) program to address groundwater contamination. This strategy entailed implementation of several tasks as discussed in the following subsections.

3.1 SOIL DELINEATION AND SAMPLING PROGRAM

In approving the VIRP strategy, the EPD required further soil sampling and analysis within AOC-2 and AOC-3 to delineate the soil COCs at the site as part of the VIRP program. The following paragraphs describe the general sampling procedures followed to complete the soil delineation sampling at each AOC.

3.1.1 Sample Locations

3.1.1.1 AOC-2

Prior to the initiation of the VIRP, GPA conducted 12 borings within the original footprint of AOC-2, as established in the VIRP. The analytical results from the soil samples indicated that soil within AOC-2 was not horizontally delineated to the north, south, east, or west. However, as stated

in the VIRP, since the contaminated soil within AOC-2 lies beneath either asphalt pavement or the concrete slab of Warehouse 3 (WH3), the potential exposure of contaminated soil to visitors was determined to be limited. Nevertheless, in the November 2, 2012 VIRP comments letter, the EPD required GPA to determine the appropriate limits of the contaminated soil within AOC-2 for the proposed engineering and institutional controls.

As required by EPD, EIC collected additional soil delineation samples in unpaved areas near former soil boring locations. Figure 2-7 illustrates a close-up of the area north of AOC-2 and of all soil boring locations within and near the AOC-2 footprint. EIC conducted VIRP soil sampling during two separate events. The first event that occurred in June 2013 entailed the installation of 10 soil borings to a depth of 5 feet below ground surface. A more in-depth discussion of this sampling event is included in the Second VIRP Semi-annual Progress Report (Exhibit C). These borings were installed with a direct-push technology (DPT) Geoprobe® with a 5-foot long 2-inch diameter core sampler with a disposable acetate sleeve.

As illustrated in Figure 2-7, eight soil boring locations (shown with orange shading) were conducted in a grid pattern. Four of these soil borings (WH3 S1, WH3 S2, WH3 S3 and WH3 S4) were plotted 20 feet from and perpendicular to the north edge of the pavement of the WH3 parking lot. The remaining four soil borings (WH3 N1, WH3 N2, WH3 N3 and WH3 N4) were conducted 20 feet away from the parking lot. Since the pavement of a former driveway still exists northwest of the northeast corner of Warehouse 3 (WH3), the locations of the soil borings on either side of this paved area are spaced further apart, from west-to-east than the rest of the borings. Within the grassy island between the Rock Salt Warehouse (RSW) parking lot and main driveway, two more soil borings (RSW Island S and RSW Island N) were located at each end of the island between a ditch and the driveway.

In response to a July 2014 VIRP comment letter, in which the EPD requested that the limits of the AOC-2 be extended to the east to include the railroad spur (EIC, 2015a), EIC conducted a second soil boring event in December 2014. The second event entailed the installation of 4 additional soil delineation borings with a hand auger with a 1.5-inch sand auger bit. The four additional borings were installed approximately 40 to 50 feet away from a concrete platform (lying between WH3 and the railroad spur) and along the eastern edge of an unpaved road running along the eastern side of the railroad tracks. Additionally, the 4 borings were spaced north-to-south, to remain consistent with the spacing of former soil sample locations along the concrete platform.

Since the EPD requested (in its July 2014 VIRP comments letter) that the limits of AOC-2 be expanded to the west to abut AOC-1 and to the south to include the footprint of Warehouse 2 (WH2) (EPD, 2014), no additional soil delineation samples were collected to the west or south of AOC-2. GPA complied with this request and, revised AOC-2, accordingly, as shown in Figures 2-7. This boundary had been originally proposed in Figure 4-1 of the Sixth VIRP Semi-annual Progress Report (Exhibit G).

3.1.1.2 AOC-3

Prior to the EPD's approval of the submitted VIRP, 10 soil borings had been installed within a swale north of WH3 and within a drainage ditch east of the railroad spur east of WH3 within AOC-3 to delineate potential soil COCs. Figure 2-8 illustrates the locations of all soil borings within the former AOC-3. From Figure 2-8, one soil sample was collected from each boring at depths ranging from 0 to 0.5 feet. Only one of the 10 soil samples collected contained concentrations of BHC above Type IV RRS.

Based on the results of the pre-VIRP sampling program, discussed above, the VIRP had proposed hot spot remediation to remediate soil in this area. To define the extent of soil - requiring remediation within AOC-3 - EIC conducted additional confirmatory and delineation sampling within AOC-3.

Referring to Figure 2-8, EIC installed five additional soil borings within AOC-3 in November 2013. One was installed near the approximate location of the original hot spot (the central boring location) and four additional samples were installed in each cardinal direction approximately 10 feet away from this central boring location. Since all samples collected during this event had concentrations below laboratory detection limits for all BHC isomers, no additional soil delineation samples were collected. The sample results were submitted to the EPD in the Third VIRP Semi-annual Progress Report on (Exhibit D). Following the submittal of this report, in a July 2014 comments letter, the EPD concurred no additional action was required within AOC-3 (EPD, 2014).

3.1.2 Soil Sampling Protocols

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-R3, or equivalent procedure at the time of sampling, under the FBQSTP (EPA, 2014). Following is a general description of soil sampling procedures by which all soil sampling was conducted during each sampling event discussed in Section 3.1.

3.1.2.1 DPT Borings

At each boring location, EIC utilized direct-push technology (DPT), specifically a Geoprobe® rig, to advance a 5-foot long 2-inch core sampler equipped with a thin-walled acetate sleeve. The core sampler collected a continuous 5-foot soil core beginning at the ground surface. At each boring location, the surficial grass layer was first scraped off to expose bare soil. The driller then advanced the core sampler to a depth of 5 feet below grade. Each core was primarily advanced hydraulically by direct-push without rotation. As a precaution against striking any unknown underground utilities, the hydraulic hammer available on the Geoprobe was used periodically only when it became

necessary to penetrate through more resistant layers, such as that caused by rocks or clay. No refusal was encountered in any of the 10 boring locations installed with the Geoprobe unit.

The first sampled interval was from a depth of from zero to two (0-2) feet and the second interval was from a depth of from three to five (3-5) feet. These depth intervals were consistent with the previous sampling intervals in the AOC-2 area.

Core samples from each sampled interval was retrieved and laid out onto disposable sheet-plastic-lined work surface. The acetate liner of each core sample was subsequently cut open, the soil characterized by EIC's field geologist and prepared for sampling. Soil from each interval was then collected and separately homogenized to collect two depth-discrete homogenized soil core samples.

The homogenization was completed in accordance with EPD's guidance document SESDPROC-300-R3. Soil for each 2-foot core interval was placed into a decontaminated stainless steel homogenization bowl and thoroughly mixed. The soil samples were thoroughly mixed to ensure that each sample was as representative as possible of the sample media utilizing the quartering procedure as follows: The material in the sampling bowl was divided into quarters and each quarter was mixed individually. These two quarters were then mixed to form halves. The two halves were then mixed to form a homogenous matrix. This procedure was then repeated several times until the sample was adequately mixed. The mixing was achieved by stirring the material in a circular fashion, reversing direction, and occasionally turning the material over.

An aliquot from each homogenized depth-discrete sample was then placed into a four-ounce, labeled, glass jar using the alternate shoveling method and the jar cap secured tightly. The alternate shoveling method involved placing a spoonful of soil in each container in sequence and repeating until each of the containers was full. Threads on the containers and lids were cleaned to ensure a tight seal when closed. Each portion of the composite soil matrix was of the same approximate volume. All sample bottles were then labeled and placed in a laboratory-supplied insulated cooler with ice for storage and the ice maintained until the samples were delivered to a state-certified laboratory for analysis.

All excess soil was transferred to a DOT-rated steel 55-gallon drums. The drums were then sealed with a lid. A nonhazardous label was placed on each drum which listed the accumulation date and investigation derived waste (IDW) contents as soil - pending further classification based on sampling analytical results. The drums were staged at the southern corner of the RSW parking lot. Used acetate sleeves were disposed of by the drilling contractor. Per SESDPROC-300-R3, after each soil boring was completed, each bore hole was abandoned by filling the respective bore hole with a 30% solids bentonite grout to ground surface.

3.1.2.2 Hand Augered Borings

Prior to the beginning of each soil boring, each location was cleared of any surface debris such as tree limbs, leaves, or other forms of detritus. After all vegetation cover had been cleared, EIC utilized a decontaminated stainless steel hand auger to advance a 1.5-inch diameter sand bucket auger to collect discrete samples from the 0 to 2 feet and from the 3 to 5 feet intervals below ground surface.

After each soil sample was retrieved, the collected samples were deposited into separate decontaminated stainless steel bowls for homogenization. The homogenization was completed in accordance with EPD's guidance document SESDPROC-300-R3 as discussed in Section 3.1.2.1. The soil samples were thoroughly mixed to ensure that each sample was representative of each respective depth-discrete interval. Each homogenized sample was then collected, stored, and delivered to a laboratory for analysis, as described in Section 3.1.2.1. Following all soil boring activities, in accordance with EPD's guidance document SESDPROC-300-R3, unused soil was placed back into each respective borehole from which it originated.

3.1.3 Decontamination Procedures

Prior to collecting each discrete soil sample with either the Geoprobe® rig or hand auger, all reused equipment was decontaminated by washing with a phosphate-free detergent, rinsing with deionized water, and allowing it to dry before reuse, in accordance with EPD's Field Equipment and Decontamination guidelines SESDPROC-205 (EPA, 2011).

3.1.4 Sample Submittal and Analysis

Prior to submitting the soil samples to the laboratory, EIC completed chain-of-custody forms and these forms accompanied all samples. EIC submitted all soil samples and chain-of-custody forms to a Georgia Department of Natural Resources-certified laboratory for analysis. The laboratory analyzed the soil samples for organochlorine pesticides contaminants using EPA Method 8081B/3660B (sulfur cleanup). The respective laboratory reports for the June 2013, November 2013, and December 2014 sampling events are included in the second (Exhibit C), third (Exhibit D), and fifth (Exhibit F) VIRP semi-annual progress reports, respectively.

3.1.5 Quality Assurance and Quality Control

To maintain the quality of samples collected in the field, EIC collected equipment rinsate samples for any reused equipment during each soil delineation sampling event. The equipment blanks were stored in the same cooler containers as the rest of the samples submitted to the lab. The analytical results of the equipment rinsate samples are included in each respective laboratory report for each

soil sampling event. These reports are included as attachments in the respective semi-annual reports. According to these reports, no COCs were detected above method detection limits (MDLs) in any of the equipment rinsate samples collected.

3.1.6 Data Evaluation

The analytical results for all three soil sampling events are tabulated in Table 2-5 and are also represented on Figure 2-7 and Figure 2-8 for AOC-2 and AOC-3, respectively. A more in-depth discussion for each individual sampling event (June 2013, November 2013, and December 2014) is included in the second (Exhibit C), third (Exhibit D), and fifth (Exhibit F) VIRP semi-annual progress reports, respectively.

3.1.6.1 AOC-2

From Figure 2-7, it is apparent that the concentrations of the COCs in soil collected from both the 0 to 2 foot and 3 to 5 foot intervals of each of the 4 soil borings along the eastern boundary of AOC-2 are below RRS limits. Additionally, concentrations of COCs in all samples on the eastern boundary are below the delineation standard, with the concentrations of COCs in several samples also lying below MDLs. Considering that the COCs in AOC-2 have been delineated towards the east, GPA extended the eastern boundary of AOC-2 to the delineation points along these borings. Also, since both the northern and eastern unpaved boundaries of AOC-2 have been delineated, it is clear that the site engineering and institutional controls fully address the contaminated soil management objectives, described in the VIRP application, for AOC-2.

3.1.6.2 AOC-3

From to Figure 2-8 it is apparent that COCs above RRS limits in pre-VIRP samples were previously detected at one soil sample location within the drainage ditch. Referring to Table 2-5 and Figure 2-8, it is clear that there were no COCs detected above RRS or the delineation criteria (nor above laboratory MDLs either) in any of the 10 post-VIRP samples that EIC collected within AOC-3. Based on these findings, it is evident that the RRS exceedance originally observed within the soil of the drainage ditch is no longer present. Therefore, the horizontal extent of contaminated soil media within AOC-3 is considered to be fully delineated. GPA presented these findings in the Third VIRP Semi-annual Progress Report (Exhibit D). In a July 2014 VIRP comments letter, the EPD concurred with this conclusion and stated that AOC-3 no additional action was required for this AOC (EPD, 2014).

3.2 MANAGEMENT OF CONTAMINATED SOILS

As a part of the VIRP remedial plan, GPA proposed that prevailing contaminated soil in the South Parcel would be managed at the site. The following subsections further describe the overall soil

management strategy, installation of the security fence for AOC-1, and the development of the UEC for the site.

3.2.1 North Parcel Soil Management

As discussed in Section 1, following the submittal of the CAP in 2009, GPA initiated certain investigatory and remedial activities outlined in the CAP. Initially, GPA understood that 720 cubic yards of contaminated soil required excavation and disposal within the North Parcel. During initial excavation activities, however, additional environmental COCs were progressively discovered that significantly expanded the overall scope of the project. Ultimately, 4,000 cubic yards of contaminated soil were excavated from the North Parcel and transferred to a local landfill. GPA also collected confirmatory soil samples from the excavations to demonstrate that residual soils do not contain pesticide COCs in excess of the Type 4 RRS listed in Table 2-3. As discussed in Section 2.0, the RACR documents the soil excavation was submitted to EPD (CH2M Hill, 2009). In 2011, GPA divested an eastern portion of the North Parcel to Agrium. The current property boundary is outlined in Figure 1-1 and in Attachment 1-6.

Following the approval of the VIRP, in a November 2012 VIRP comments letter, the EPD requested GPA to provide a compilation table of soil confirmatory sampling results to confirm that the soil in the North Parcel had been remediated. Consequently, EIC compiled soil confirmatory sampling results for the North Parcel from historical data and submitted a spreadsheet in the Fourth VIRP Semi-annual Progress Report (Exhibit E). In a letter dated October 2015 letter, the EPD concurred that the North Parcel had been remediated and met Type 4 RRS (EPD, 2015).

3.2.2 South Parcel Soil Management

In the South Parcel, additional soil investigations conducted prior to the VIRP approval had identified additional pesticide COCs that extended the horizontal and vertical extent. In AOC-1, soil COCs were determined to extend to depths of up to 24 feet below ground surface. Soil COCs discovered in AOC-2, underneath asphalt pavement and a concrete slab, on which Warehouse No. 3 rests, extended to a depth of more than 5 feet. In AOC-3, certain soil COCs in AOC-3 were found above RRS in one boring location at a depth of from 0 to 2 feet. The following subsections describe the soil management program within the South Parcel.

3.2.2.1 AOC -1

AOC-1 encompasses a grass-covered mound lying south of the RSW building. As discussed in Section 2.5.1, the horizontal extent of contaminated soil within AOC-1 has been delineated since 2011. Figure 2-5 illustrates the delineated outline of COCs for AOC-1. AOC-1 contains the highest concentrations of BHC in soil at the site. As such, limiting the exposure of the BHC in the soil within AOC-1 is required. As proposed in the VIRP, GPA installed a security fence around the

perimeter of the known horizontal extent of COCs above RRS with an approximately 20-foot buffer zone between the contaminated area and the fence line. The installation of the security fence and the associated design specifications is discussed in the Third VIRP Semi-annual Progress Report (Exhibit D). Figure 2-5 illustrates the aerial extent of the security fence line around AOC-1.

In addition to the security fence installed around AOC-1, the South Parcel is also subject to an environmental covenant, which restricts the access to any soil disturbance within each of the AOCs. This effectively limits the exposure of site workers and visitors to contaminated soil. Additionally, GPA contractors who work on the site and are planning to perform subsurface work within the AOCs are required to attend a comprehensive health and safety briefing, prior to beginning work. The briefing addresses the limits of the contaminated soil and the hazards associated with BHC and BHC contaminated soil. With these measures in place, the contaminated soil within AOC-1 is effectively managed, such that the risk of exposure to GPA employees, site visitors, and GPA contractors is minimized.

An engraved granite marker was installed by EIC in February 2016 near and outside the southwestern corner of the security fence surrounding AOC-1 and near an access gate in this fence to notify site visitors and contractors of the soil COCs contained within the security fence. Figure 2-5 illustrates the location of the monument relative to other site features. The granite marker states that the area is restricted and is subject to an environmental covenant requiring approval and training prior to any digging in the area. A more detailed discussion of the of the granite monument installation near AOC-1 is included in the attached Seventh VIRP Semi-annual Progress Report (Exhibit H).

3.2.2.2 AOC-2

When the VIRP was submitted, the proposed AOC-2 boundary consisted of a square-shaped area including Warehouse 3 (WH3), a concrete railroad loading platform and a portion of a surrounding asphalt paved parking lot. However, at that time, the horizontal delineation of the contaminated soil within AOC-2 had not yet been completed by GPA. As such, following the approval of the VIRP by the EPD, GPA conducted additional soil delineation sampling north and east of AOC-2, as described in Section 3.1.

Subsequently, GPA completed horizontal delineation of soil within AOC-2 in December 2014. Following the delineation of AOC-2, in a February 2016 VIRP comments letter, the EPD requested that the aerial extent of AOC-2 be extended to include all concrete and asphalt-covered surfaces surrounding and including WH2 and WH3 and extending to the security fencing around AOC-1 (EPD, 2016). Consequently, GPA increased the aerial extent of AOC-2 to include these items as documented in the Seventh VIRP Semi-annual Progress Report (Exhibit H). The updated aerial extent of AOC-2 is illustrated in Figure 2-5.

In addition to the concrete and asphalt covering soil within AOC-2, the site is also subject to an environmental covenant, which restricts the access to and disturbance of soil within each of the two AOCs. This effectively limits exposure to contaminated soil by site workers and visitors. Additionally, GPA contractors who work at the site and are planning to perform subsurface work within the AOCs, are presented with a comprehensive health and safety briefing, prior to beginning work, to address the hazards associated with BHC and BHC contaminated soil. With the combination of covered impermeable surfaces and environmental covenants, the contaminated soil within AOC-2 is effectively managed such that the risk of exposure to GPA employees, site visitors, and GPA contractors is limited.

An engraved granite marker was installed by EIC in February 2016 within AOC-2 in the asphalt parking lot near WH3 to notify site visitors and contractors of the soil COCs underlying the concrete and asphalt surfaces in AOC-2. Figure 2-5 illustrates the location of the monument relative to other site features. The granite marker states that the area is restricted and is subject to an environmental covenant and that, prior to any digging in the area, the property owner and EPD should be contacted. A more detailed discussion of the installation of the granite monument within AOC-2 is included in the attached Seventh VIRP Semi-annual Progress Report (Exhibit H).

3.2.2.3 AOC-3

As stated in Section 2, AOC-3 has been eliminated as an AOC. As such, the management of soil within the area of former AOC-3 is not necessary.

3.3 Monitored Natural Attenuation Program

Considering that the prevailing BHC groundwater plume is stable and naturally degrading over time, the VIRP proposed monitored natural attenuation (MNA) as the most practical remedial strategy to address groundwater contamination. This strategy required implementation of several action items to delineate the horizontal and vertical extent of groundwater COCs, evaluate the performance of MNA as a remedial strategy through performance metrics, and to observe trends in concentrations of COCs in groundwater over time. A complete list of these proposed actions is included in the "Scope and Schedule" section of the VIRP (Exhibit A).

The following sections describe the actions that GPA performed during the VRP and the results of the proposed VIRP actions on the groundwater COCs. Each of the groundwater monitoring events conducted at the site is discussed in greater detail in each of the seven VIRP semi-annual reports that GPA submitted to the state. In total, eight groundwater sampling events were conducted during the VRP.

3.3.1 Rehabilitation of the Monitoring Well Network

Prior to the initiation of the VIRP, 24 wells had been installed on-site and off-site in an attempt to complete the horizontal and vertical delineation of the prevailing BHC groundwater plumes. However, at the initiation of VIRP groundwater monitoring, three monitoring wells, MW-2, MW-3, and MW-9 were un-located. Therefore, in March and June of 2013 EIC attempted to locate these wells. Through these efforts, EIC was able to locate wells MW-2 and MW-3, however, MW-9 was never found.

Even after the discovery of the two missing wells, the horizontal and vertical delineation of groundwater COCs at the site remained undefined. Consequently, EIC installed two additional monitoring wells (MW-23 in April and MW-24 in December 2014) to horizontally and vertically delineate the COC plumes. In addition to installing the new monitoring wells, EIC also repaired several wells in the monitoring well network. The well rehabilitation tasks have been documented in several semi-annual reports presented to EPD.

By locating wells MW-2 and MW-3, as well as installing the two new monitoring wells, the total number of located monitoring wells in good condition at the site reached 25. These wells were utilized for a better definition of the horizontal and vertical extents of the COC plumes. Table 3-1 summarizes known well construction and other data (e.g. development, filter sand type, etc.) for all wells included in the VIRP monitoring well network.

3.3.2 Sampling Protocol

Each groundwater sampling event was conducted in accordance with the current U.S. EPA 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, 2014). As required in the SOP, EIC recorded the field water quality parameters until the groundwater purged from the well indicated that stabilization had occurred. The field water quality parameters from each sampling event are summarized in Table 3-2. The gauging data from each event is included in Table 3-3. Each respective VIRP semi-annual report contains a more in-depth discussion of sampling protocols for each sampling event.

3.3.3 Sampling Handling and Analysis

Following the collection of each sample, GPA placed each sample in an insulated cooler with ice until all samples were submitted to a Georgia certified environmental laboratory. During the implementation of the VIRP, each groundwater sample was submitted for analysis via EPA Method 8081B (organochlorine pesticides). In addition, during the first four quarterly groundwater sampling events, GPA collected MNA indicator parameters groundwater samples for analysis via EPA

Methods 6010C (manganese), 9056A (chloride, nitrate, and sulfate), 9060A (total organic carbon), and RSK-175 (methane, ethane, and ethene). The results for each groundwater sampling event analyzed via EPA Method 8081B are included in Table 3-4. The results of the samples collected for MNA analysis criteria are included in Table 3-5.

3.3.4 Quality Assurance and Quality Control

During each groundwater sampling event, EIC collected additional samples for quality assurance and quality control (QA/QC) evaluation and for the validation of analytical results. For organochlorine pesticides laboratory matrix spike analysis, one additional sample from two wells was collected. A duplicate sample and an equipment rinsate (blank) sample were also collected. The equipment blank sample was collected by pumping laboratory-supplied de-ionized water through a 10-foot section of Teflon™-lined tubing and approximately 6-inches of silicone tubing.

Each QA sample collected at the site was stored with ice in coolers and delivered to the laboratory along with the groundwater samples. These samples were analyzed via EPA method 8081B/3660B. All sample bottles were properly sealed and labeled in the field.

To prevent cross-contamination, new disposable Teflon-lined tubing and disposable silicone tubing were used to collect all samples. EIC's oil/water interface probe and tubing cutter tool were field decontaminated prior to use and between sample locations by washing with pressurized 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, also with pressurized phosphate-free detergent.

An in-depth discussion of the results of the QA/QC evaluation for each groundwater sampling event is included in the respective VIRP semi-annual progress reports.

3.3.5 Data Evaluation

Following the completion of each groundwater monitoring event, GPA evaluated the analytical and gauging results from the sampling event, by comparing the data to the historical site data from previous events completed at the site including the VIRP baseline sampling event of March 2013. Each respective VIRP semi-annual progress report contains a detailed discussion for each successive sampling event leading up to the latest sampling event conducted in March 2016.

3.3.5.1 Groundwater Potentiometric Surface

Utilizing the gauging data presented in Table 3-3, GPA prepared groundwater potentiometric surface maps for each groundwater monitoring event conducted from March 2013 to March 2016. Each potentiometric surface map was presented in the subsequent semi-annual report following each event (Exhibits B through H). The first (March 2013) and latest (March 2016) VIRP groundwater potentiometric surface maps are included in this report as Figures 3-1 and 3-2, respectively. From Figures 3-1 and 3-2, it is apparent that the potentiometric surface generally slopes downward from the northwest to southeast towards the Flint River indicating groundwater flow in the same direction. From Table 3-3, groundwater surface elevations vary significantly over time with seasonal changes. In general, groundwater surface gauging data indicates the groundwater elevation high occurs during March and the groundwater elevation low occurs during the period from September to December.

3.3.5.2 BHC Plume Extent and Stability

The baseline March 2013 sampling results for the monitored α-, β-, and δ-BHC isomers are included as Figures 3-3, 3-4, and 3-5, respectively. Since there have been no detections of γ-BHC in groundwater (above delineation or RRS levels) prior to or during the VIRP, γ-BHC was not included in this analysis. The most recent March 2016 sampling results for α-, β-, and δ-BHC isomers are included as Figures 2-9, 2-10, and 2-11, respectively. As discussed in Section 2, and as illustrated in the latest COC plume maps, the horizontal and vertical extent of each groundwater COC has been delineated to the east, west, and south, with the exception of β-BHC. β-BHC remains un-delineated beyond the southern edge of the site property along the north bank of the Flint River. Additionally, all COCs remain un-delineated hydraulically up-gradient and north of the northern edge of the GPA property and Spring Creek Road.

Based on the results from each VIRP groundwater sampling event, as compared to the baseline sampling event, it is apparent that the horizontal extents and concentrations of the COC plumes have remained relatively stable over time with minor fluctuations mainly due to seasonal variations of groundwater. To determine the potential impact of the COC plumes to the Flint River, GPA initiated a groundwater-to-river mixing model. The model inputs, calculations, and results are discussed further in the following Section 3.4. From this analysis, GPA determined that the prevailing COC plumes do not present a current or potential threat to the water quality in the Flint River.

3.4 FLINT RIVER MIXING MODEL

In the VIRP, GPA had proposed development of a fate and transport model for the BHC isomer plumes. To accomplish this objective, EIC developed a groundwater mixing zone model. The results of this model was submitted to the EPD in the Seventh VIRP Semi-annual Report (Exhibit H).

The model utilizes groundwater flow, groundwater COC concentrations, and river flow rates to estimate the maximum potential COC concentrations in the Flint River that forms the southern boundary of the site. The model was executed under several different river flow rates and groundwater COC concentration scenarios to evaluate and compare the resultant concentrations to national and state water quality standards. The following subsections discuss the general approach to the mixing model. A more in-depth discussion of the model inputs, calculations, and results is included in the Seventh VIRP Semi-annual Progress Report (Exhibit H).

3.4.1 Model Setup

Utilizing several groundwater flow parameters determined under the VIRP (hydraulic conductivity, hydraulic gradient, etc.), EIC developed a groundwater-to-river mixing model based on the Dupuit Equation for estimating steady flow in an unconfined aquifer. For the model inputs, EIC assumed the following: the entire mass of groundwater leaving the site is uniformly contaminated, groundwater enters the River along the entire length of the site, and groundwater completely mixes with surface water in the River.

For the purposes of this model, EIC chose three sets of COC concentrations ranging from prevailing groundwater concentrations (i.e. at the leading edge) to a worst-case scenario (i.e. maximum groundwater COC concentration ever recorded at the site), presented in Table 3-6, to compute varying degrees of potential downstream surface water quality levels in the River.

3.4.2 Results

Tables 3-7 and 3-8 list the results from the model as well as the state and national water quality regulatory levels for each COC. The regulatory levels considered for this evaluation are the Georgia Instream Water Quality Standard (EPD, 2013) and the National Primary Drinking Water Standard (EPA, 2009). Table 3-7 considers the Georgia standards under average river flow conditions, while Table 3-8 considers the special case of acute criteria for γ-BHC under low river flow (1Q10) conditions.

Referring to the estimated downstream river concentrations listed in Table 3-7 and 3-8, it is apparent that the potential impact from groundwater discharge from the site into the River would be negligible. In addition, these downstream river concentrations are several orders of magnitude lower than the state or federal water quality standards. Considering that this is a conservative worst-case scenario, potential COC migration to the River from this site would not result in downstream river concentrations in excess of either federal or state surface water quality standards.

SECTION 4

4 SITE CLOSURE

The VIRP outlined a plan of action to reach a remedial endpoint for the site in a five-year time-frame. However, GPA has successfully implemented the proposed actions ahead of schedule and is now petitioning the EPD to delist the site in accordance with the Class V approach outlined in the VIRP.

4.1 TYPE 5 RRS

As discussed in the previous sections, the contaminated soil within the site is delineated and contained with engineering controls. COC plumes in groundwater have been fully delineated to the east, west, and south of the site with the exception of β-BHC, which is not delineated at the southern edge of the site that is bound by the Flint River. None of the COCs in groundwater are delineated beyond the northern (hydraulically up-gradient) edge of the site or beyond the Spring Creek Road ROW. Nevertheless, GPA has fully delineated the extent of the COCs within the site property boundaries.

The results of the fate and transport model, discussed in Section 3.4, indicates that potential migration of dissolved COC in groundwater will not impact the water quality of the Flint River. As discussed in the site conceptual model, the only remaining risk would be potential incidental contact of contaminated soil or groundwater to contractors. These types of exposure are only expected to occur during intrusive activities such as soil excavation. Therefore, with the implementation of institutional and engineering controls at the site, GPA has elected to pursue the Type 5 RRS in accordance with the terms of the VIRP.

4.2 STAKEHOLDER ENDORSEMENT

To discuss the state of the site, EIC arranged a meeting between GPA and EPD that was held at the EPD office, on August 25, 2015. In the meeting, EIC presented the results of the VIRP program and proposed Type 5 RRS as a site remedy for the residual COCs. EPD acknowledged that such an option would be feasible and directed GPA to prepare a compliance status report (CSR) along with a Uniform Environmental Covenant (UEC) to address the prevailing site risks.

4.3 UNIFORM ENVIRONMENTAL COVENANT

The UEC requires engineering and or institutional controls to manage potential risks - such as the residual soil and groundwater COCs remaining at the site. The following subsections describe each of these control mechanisms.

4.3.1 Engineering Controls

As part of the VIRP, two engineering controls were established for soil - a security fence was installed around AOC-1 and a concrete/asphalt pavement as well as stabilized grass cover is maintained within and adjacent to AOC-2. To maintain the engineering controls, GPA has developed a comprehensive maintenance and monitoring plan (MMP). The MMP of the UEC establishes procedures for maintaining the engineering controls at the site. This includes proper inspection and maintenance of the security fence surrounding AOC-1. This fence in addition to the pavement covering the majority of AOC-2 limit the potential for direct contact with contaminated soil. In addition, GPA has installed two permanent engraved granite markers at AOC-1 and AOC-2 to notify visitors, contractors, and on-site workers about the establishment of the UEC and exposure risk,

4.3.2 Institutional Controls

GPA will notify contractors about special stipulations that apply for any intrusive work such as excavation activities within the residual COC foot-print. Construction workers performing such activities that may result in exposure to soil and/or groundwater contamination within the foot-print would be required to meet contractor appropriate health and safety training and perform the work in accordance with a Health and Safety Plan prepared by a qualified environmental/safety professional. contractor health and safety plan. In addition, the contractor will be required to attend a BHC awareness program and abide by all stipulations of GPA's contractor health and safety plan. GPA will also require the contractor to maintain and dispose any impacted soil or groundwater in accordance with all applicable local, state, and federal rules and regulations governing the management of such material.

4.3.2.1 Contractor Health and Safety Plan

The MMP includes a contractor health and safety plan (CHASP) that establishes proper health and safety protocols for any contractor performing intrusive work that can potential expose them to soil or groundwater contamination within the COC foot-print. As an institutional control, GPA will require such contractors to attend a health and safety briefing prior to site activities. This policy will be implemented with a special stipulation in GPA's contracts that cover intrusive work within the COC foot-print.

4.3.2.2 Continued Monitoring

As described in the VIRP, annual groundwater monitoring will be conducted to evaluate the attenuation and stability of the prevailing COC groundwater plumes.

4.4 PETITION TO DELIST

Based on this CSR, the site is in compliance with Georgia's Type 5 risk reduction standards (RRS) for soil and groundwater. Consequently, GPA petitions EPD to delist the site from the State of Georgia Hazardous Site Response Act (HSRA) Site Inventory.

4.5 PUBLIC NOTICE

With the submittal of this CSR, in accordance with O.C.G.A 391-3-19-.06(5), GPA will publish a notice in a major local newspaper of general circulation (local newspaper), the legal organ of Decatur County (legal organ for Decatur), and the City of Bainbridge, Georgia (legal organ for Bainbridge). The original statement is included as Attachment 4-1. Supporting material will be transmitted to EPD within the prescribed time limits.

SECTION 5

5 REFERENCES

Agency for Toxic Substances and Disease Registery (ATSDR), 2005. *Public Health Statement Hexachlorocyclohexane, CAS # 608-73-1*, Department of Health And Human Services, Public Health Service, Agency for Toxic Substances and Disease Registry. August 2005.

CH2M Hill, 2009. *Corrective Action Plan for the Bainbridge Terminal, Hazardous Site Inventory Number 10071.* Bainbridge, Georgia, November 2009.

CH2M Hill, 2011a. *Draft Removal Action Completion Report For the Northern and MW20 Areas, Georgia Ports Authority, Bainbridge Terminal*, *Bainbridge, Georgia*., January 2011.

CH2M Hill, 2012. *First Annual Groundwater Monitoring Report, Georgia Ports Authority, Bainbridge Terminal, Bainbridge, Georgia*., May 17, 2012.

U. S. Environmental Protection Agency (EPA), 2009. *National Primary Drinking Water Regulations*. Washington, D.C., May 2009.

EPA, 2011. *Field Equipment Cleaning and Decontamination, Operating Procedure, Number SESDPROC-205-R2*, Region 4, U.S. Environmental Protection Agency, Science and Ecosystem Support Division. Athens, Georgia. December 20, 2011.

EPA, 2013. *Groundwater Sampling, Operating Procedure, Number SESDPROC-301-R3*, Region 4, U.S. Environmental Protection Agency, Science and Ecosystem Support Division. Athens, Georgia, March 6, 2013.

EPA, 2014. *Soil Sampling, Operating Procedure, Number SESDPROC-300-R3,* Region 4, U.S. Environmental Protection Agency, Science and Ecosystem Support Division. Athens, Georgia. December 20, 2011.

Georgia Environmental Protection Division (EPD), 2013. *Rules and Regulations for Water Quality Control, Chapter 391-3-6-.03*. Atlanta, Georgia, August 27, 2013.

EPD, 2014. Letter from GA EPD to GPA. *First, Second, and Third VIRP Semi-Annual Progress Reports, Groundwater Monitoring Report July 2, 2014, Comment Letter, Georgia Ports Authority – Bainbridge Terminal, Hazardous Site Inventory Number 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19*. Atlanta, Georgia, July 2, 2014.

EPD, 2015. Letter from GA EPD to GPA. *Fourth and Fifth VIRP Semi-Annual Progress Reports, Georgia Ports Authority–Bainbridge Terminal, HSI Site No. 10071, 1321 Spring Creek Road, Bainbridge, Decatur County*. Atlanta, Georgia, October 6, 2015.

EPD, 2016. Letter from GA EPD to GPA. *Sixth VIRP Semi-Annual Progress Report, Georgia Ports Authority–Bainbridge Terminal, HSI Site No. 10071, 1321 Spring Creek Road, Bainbridge, Decatur County*. Atlanta, Georgia, February 16, 2016.

Georgia Ports Authority (GPA), 2012. *Personal Communications on Additional Soil Investigation*. Savannah, Georgia, June 1, 2012.

Haney, P. B. , Lewis, W. J., and Lambert, W. R., 2009. *Cotton Production and the Boll Weevil in Georgia: History, Cost of Control, and Benefits of Eradication*, Research Bulletin Number 428, The Georgia Agricultural Experiment Stations, College of Agricultural and environmental Sciences, The University of Georgia. Athens, Georgia, March 2009.

Kinloch, B.B. Jr., and Stonecypher, R.W., 1969. *Genetic Variation in Susceptibility to Fusiform Rust in Seedlings from a Wild Population of Loblolly Pine*, Phytopathology, Vol. 59, No. 9, 1246-1255. September 1969.

Langenhoff, A., Staps, S., Pijis, C., Alphenaar, A., Zwelp, G., Rijnaarts, H., 2002. *Intrinsic and stimulated in situ biodegradation of hexachlorocyclohexane (HCH),* Water, Air, and Soil Pollution. 2002.

Merkel, E.P., 1964. *Hydraulic Spray Applications of Insecticides for the Control of Slash Pine Cone and Seed Insects, Southeastern Forest Experiment Station.* Asheville, North Carolina, May 1964.

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

COMPLIANCE STATUS REPORT

TABLES

Table 2-1: Site Delineation Concentration Criteria for Soil

Constituents	CAS No.	Concentration, (µg/kg)
alpha-BHC	319-84-6	660
beta-BHC	319-85-7	660
delta-BHC	319-86-8	100
gamma-BHC	56-89-9	660
DDD	72-54-8	660
DDE	72-55-9	660
DDT	50-29-3	660
Aldrin	309-00-2	660

Derived from Table 2-5 from the "Corrective Action Plan for the Bainbridge Terminal"

Table 2-2: Site Delineation Concentration Criteria for Groundwater

Constituents	CAS No.	Concentration, (µg/L)
alpha-BHC	319-84-6	0.1
beta-BHC	319-85-7	0.1
delta-BHC	319-86-8	0.1
gamma-BHC	56-89-9	0.2
DDD	72-54-8	0.1
DDE	72-55-9	0.1
DDT	50-29-3	0.1
Aldrin	309-00-2	0.1
Chromium	18540-29-9	100
Lead	7439-92-1	15

Derived from Table 2-4 from the "Corrective Action Plan for the Bainbridge Terminal"

Table 2-3: Current Risk Reduction Standards (RRS) for Soil (CH2M Hill, 2009)

Constituents	CAS No.	Soil, mg/kg		Soil, mg/kg	
		Residential		Non-Residential	
		Type 1	Type 2	Type 3	Type 4
alpha-BHC	319-84-6	**0.66**	**0.11**	**0.66**	**0.35**
beta-BHC	319-85-7	**0.66**	**0.94**	**0.66**	**3.1**
delta-BHC	319-86-8	**0.01**	**0.10**	**0.01**	**0.10**
gamma-BHC	56-89-9	**0.66**	**3.5**	**0.66**	**12**
DDD	72-54-8	**0.66**	**3.2**	**0.66**	**11**
DDE	72-55-9	**0.66**	**2.3**	**0.66**	**7.7**
DDT	50-29-3	**0.66**	**3.3**	**0.66**	**11**
Aldrin	309-00-2	**0.66**	**0.032**	**0.66**	**0.11**

Note:

BHC = benzenehexachloride
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
RRS = Risk Reduction Standards
mg/kg = milligrams per Kilogram

Table 2-4: Current Risk Reduction Standards (RRS) for Groundwater (CH2M Hill, 2009)

Constituents	CAS No.	Ground Water, mg/L		Ground Water, mg/L	
		Residential		Non-Residential	
		Type 1	Type 2	Type 3	Type 4
alpha-BHC	319-84-6	**0.0001**	**0.0001**	**0.0001**	**0.0005**
beta-BHC	319-85-7	**0.0001**	**0.0005**	**0.0001**	**0.0016**
delta-BHC	319-86-8	**0.0001**	**0.0001**	**0.0001**	**0.0001**
gamma-BHC	56-89-9	**0.0002**	**0.0008**	**0.0002**	**0.0026**
DDD	72-54-8	**0.0001**	**0.0035**	**0.0001**	**0.0120**
DDE	72-55-9	**0.0001**	**0.0025**	**0.0001**	**0.0084**
DDT	50-29-3	**0.0001**	**0.0025**	**0.0001**	**0.0084**
Aldrin	309-00-2	**0.0001**	**0.0001**	**0.0001**	**0.0002**
Chromium	18540-29-9	**0.1000**	**0.0470**	**0.1000**	**0.3100**
Lead	7439-92-1	**0.0200**	**0.0015**	**0.0200**	**0.0150**

Note:

BHC = benzenehexachloride
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
RRS = Risk Reduction Standards
mg/L = milligrams per Liter

Table 2-5: Cumulative Soil Analytical Results

Sample ID (Sample Depth, ft.)	Sample Date/Time	Alpha-BHC		Beta-BHC		Delta-BHC		Gamma-BHC	
		Result (mg/kg)	Flag	Result (mg/kg)	Flag	Result (mg/kg)	Flag	Result (mg/kg)	Flag
		Site-Specific RRS Value* 0.66 (mg/kg)		Site-Specific RRS Value*[2] 3.1 (mg/kg)		Site-Specific RRS Value*[2] 0.1 (mg/kg)		Site-Specific RRS Value*[2] 12 (mg/kg)	
		Delineation Criteria 0.66 (mg/kg)		Delineation Criteria 0.66 (mg/kg)		Delineation Criteria 0.01 (mg/kg)		Delineation Criteria 0.66 (mg/kg)	
AOC-2 Soil Sampling Results									
NW-SB-01 (0.0 -2.0)	12/2011	3.26		2.72		0.0235	J	0.0888	
NW-SB-01 (3.0 - 5.0)	12/2011	0.00258	J	0.0696		< 0.00336	U	< 0.00298	U
NW-SB-02 (0.0 -2.0)	12/2011	0.0143	J	< 0.0058		< 0.00356	U	< 0.00316	U
NW-SB-02 (3.0 - 5.0)	12/2011	0.0199	J	0.0199	J	0.00354		0.00476	J
NW-SB-03 (0.0 -2.0)	12/2011	16.1		7.54		< 0.18300	U	0.53300	J
NW-SB-03 (3.0 - 5.0)	12/2011	0.127		0.0593		0.0372		0.083	
NW-SB-04 (0.0 -2.0)	12/2011	0.568		0.312		0.112		0.365	
NW-SB-04 (3.0 - 5.0)	12/2011	0.233		0.0269	J	0.106		0.389	
NW-SB-05 (0.0 -2.0)	12/2011	6,170		815		74.9		1,430	
NW-SB-05 (3.0 - 5.0)	12/2011	0.209		0.161		0.577		0.884	
NW-SB-06 (0.0 -2.0)	12/2011	7.7		6.24		0.164	J	1.27	
NW-SB-06 (3.0 - 5.0)	12/2011	0.0846		0.017	J	< 0.00359	U	0.0628	
NW-SB-07 (0.0 -2.0)	12/2011	< 0.0106	U	< 0.0229	U	< 0.0141	U	< 0.0125	U
NW-SB-07 (3.0 - 5.0)	12/2011	< 0.0106	U	< 0.023	U	< 0.0141	U	< 0.0125	U
NW-SB-08 (0.0 -2.0)	12/2011	< 0.0544	U	5.28		< 0.0725	U	< 0.0643	U
NW-SB-08 (3.0 - 5.0)	12/2011	0.0237		0.0804		< 0.00359	U	0.00341	J
NW-SB-09 (0.0 -2.0)	12/2011	23.9		4.06	J	0.374	J	0.761	J
NW-SB-09 (3.0 - 5.0)	12/2011	0.261		0.348		0.0587		0.152	
NW-SB-10 (0.0 -2.0)	12/2011	1.69		10.7		1.67		0.429	J
NW-SB-10 (3.0 - 5.0)	12/2011	0.166	J	4.83		0.136	J	0.0663	J
NW-SB-11 (0.0 -2.0)	12/2011	0.192		7.19		0.0369	J	0.0967	
NW-SB-11 (3.0 - 5.0)	12/2011	< 0.0112	U	< 0.0242	U	< 0.0149	U	< 0.0132	U
NW-SB-12 (0.0 -2.0)	12/2011	52.1		8.62	J	4.33	J	9.43	
NW-SB-12 (3.0 - 5.0)	12/2011	0.182		0.114		0.0455		0.0324	
RSW Island N (0.0-2.0)	6/10/2013 9:38	NA		NA		NA		NA	
RSW Island N (3.0-5.0)	6/10/2013 9:52	NA		NA		NA		NA	
RSW Island S (0.0-2.0)	6/10/2013 10:24	0.00183	J	0.00757		<0.000138	U	<0.000166	U
RSW Island S (3.0-5.0)	6/10/2013 10:39	0.503	D	0.186	D	0.0536	D	0.0636	D
WH3-S-4 (0.0-2.0)	6/10/2013 11:02	0.00136	J	0.00626		<0.000138	U	<0.000165	U
WH3-S-4 (3.0-5.0)	6/10/2013 11:11	<0.000159	U	0.00154	J	<0.000136	U	<0.000164	U
WH3-N-4 (0.0-2.0)	6/10/2013 11:45	NA		NA		NA		NA	
WH3-N-4 (3.0-5.0)	6/10/2013 11:58	NA		NA		NA		NA	

Table 2-5: Cumulative Soil Analytical Results

Sample ID (Sample Depth, ft.)	Sample Date/Time	Alpha-BHC		Beta-BHC		Delta-BHC		Gamma-BHC	
		Result (mg/kg)	Flag	Result (mg/kg)	Flag	Result (mg/kg)	Flag	Result (mg/kg)	Flag
		Site-Specific RRS Value* 0.66 (mg/kg)		Site-Specific RRS Value*[2] 3.1 (mg/kg)		Site-Specific RRS Value*[2] 0.1 (mg/kg)		Site-Specific RRS Value*[2] 12 (mg/kg)	
		Delineation Criteria 0.66 (mg/kg)		Delineation Criteria 0.66 (mg/kg)		Delineation Criteria 0.01 (mg/kg)		Delineation Criteria 0.66 (mg/kg)	
WH3-S-3 (0.0-2.0)	6/10/2013 12:20	**0.478**	D	**0.612**	D	**0.00511**		**0.0152**	
WH3-S-3 (3.0-5.0)	6/10/2013 12:55	<0.000215	U	**0.00759**		<0.000184	U	<0.000221	U
WH3-N-3 (0.0-2.0)	6/10/2013 13:19	**0.00343**		**0.14**	D	**0.00276**		**0.00265**	
WH3-N-3 (3.0-5.0)	6/10/2013 13:32	<0.000153	U	**0.00959**		<0.000131	U	<0.000157	U
WH3-S-2 (0.0-2.0)	6/10/2013 14:02	<0.00016	U	**0.0722**	D	<0.000137	U	<0.000164	U
WH3-S-2 (3.0-5.0)	6/10/2013 14:18	<0.000151	U	<0.000197	U	<0.000129	U	<0.000155	U
WH3-N-2 (0.0-2.0)	6/10/2013 14:40	<0.000161	U	**0.00641**		<0.000138	U	<0.000166	U
WH3-N-2 (3.0-5.0)	6/10/2013 14:47	<0.000154	U	<0.000201	U	<0.000132	U	<0.000158	U
WH3-S-1 (0.0-2.0)	6/10/2013 15:38	**0.0047**		0.732	D	**0.00417**		<0.000168	U
WH3-S-1 (3.0-5.0)	6/10/2013 15:51	<0.000155	U	<0.000203	U	<0.000133	U	<0.00016	U
WH3-N-1 (0.0-2.0)	6/10/2013 16:15	<0.000164	U	**0.0477**	D	0.0112		<0.000169	U
WH3-N-1 (3.0-5.0)	6/10/2013 16:20	<0.000156	U	<0.000205	U	<0.000134	U	<0.000161	U
WH3 E1 (0.0-2.0)	12/22/2014 0:00	**0.000221**	J	**0.000800**	J	<0.000204	U	<0.0000978	U
WH3 E1 (3.0-5.0)	12/22/2014 0:00	<0.0000926	U	**0.000259**	J	<0.000206	U	<0.0000987	U
WH3 E2 (0.0-2.0)	12/22/2014 0:00	**0.00241**		**0.0151**		**0.000851**	J	**0.00112**	J
WH3 E2 (3.0-5.0)	12/22/2014 0:00	<0.0000942	U	**0.000321**	J	<0.000209	U	<0.000100	U
WH3 E3 (0.0-2.0)	12/22/2014 0:00	**0.00288**		**0.0199**		**0.0016**	J	**0.00211**	
WH3 E3 (3.0-5.0)	12/22/2014 0:00	<0.0000937	U	<0.000186	U	<0.000208	U	<0.0001000	U
WH3 E4 (0.0-2.0)	12/22/2014 0:00	**0.00134**	J	**0.00852**		**0.000565**	J	**0.00191**	J
WH3 E4 (3.0-5.0)	12/22/2014 0:00	<0.000109	U	**0.000611**	J	<0.000243	U	<0.000117	U
AOC-3 Soil Sampling Results									
SD-01 (0.0 - 0.5)	12/2011	**0.0126**		**0.0286**		**0.00304**	J	**0.0023**	J
SD-02 (0.0 - 0.5)	12/2011	**0.0161**	J	**0.113**	J	< 0.116	U	< 0.116	U
SD-03 (0.0 - 0.5)	12/2011	**0.0333**	J	**0.146**		0.0116	J	**0.00836**	J
SD-04 (0.0 - 0.5)	12/2011	**0.0215**	J	**0.294**		0.0128	J	**0.0139**	J
SD-05 (0.0 - 0.5)	12/2011	**0.0798**		**0.0174**	J	< 0.0424	U	< 0.0424	U
SD-06 (0.0 - 0.5)	12/2011	**0.14**	J	14.4		< 1.07	U	< 1.07	U
SD-07 (0.0 - 0.5)	12/2011	< 0.043	U	< 0.0861	U	< 0.043	U	< 0.043	U
SD-08 (0.0 - 0.5)	12/2011	**0.00673**	J	**0.205**		< 0.0423	U	< 0.0423	U
SD-09 (0.0 - 0.5)	12/2011	**0.0085**	J	**0.0391**	J	< 0.0483	U	< 0.0483	U
SD-10 (0.0 - 0.5)	12/2011	**0.0345**	J	**0.342**		0.0203	J	< 0.0473	U
S1 (0.1-0.5)	11/5/2013 10:43	<0.00199	U	<0.00186	U	<0.00186	U	<0.00319	U

Table 2-5: Cumulative Soil Analytical Results

Sample ID (Sample Depth, ft.)	Sample Date/Time	Alpha-BHC		Beta-BHC		Delta-BHC		Gamma-BHC	
		Result (mg/kg)	Flag	Result (mg/kg)	Flag	Result (mg/kg)	Flag	Result (mg/kg)	Flag
		Site-Specific RRS Value* 0.66 (mg/kg)		Site-Specific RRS Value*[2] 3.1 (mg/kg)		Site-Specific RRS Value*[2] 0.1 (mg/kg)		Site-Specific RRS Value*[2] 12 (mg/kg)	
		Delineation Criteria 0.66 (mg/kg)		Delineation Criteria 0.66 (mg/kg)		Delineation Criteria 0.01 (mg/kg)		Delineation Criteria 0.66 (mg/kg)	
S1 (0.5-1.0)	11/5/2013 10:55	<0.00186	U	<0.00173	U	<0.00173	U	<0.00297	U
S2S A (0.1-0.5)	11/5/2013 11:46	<0.00194	U	<0.00181	U	<0.00181	U	<0.0031	U
S2S A (0.5-1.0)	11/5/2013 11:56	<0.00193	U	<0.0018	U	<0.0018	U	<0.00309	U
S3 N (0.1-0.5)	11/5/2013 12:07	<0.0018	U	<0.00168	U	<0.00168	U	<0.00288	U
S3 N (0.5-1.0)	11/5/2013 12:18	<0.00178	U	<0.00166	U	<0.00166	U	<0.00285	U
S4 E (0.1-0.5)	11/5/2013 12:32	<0.00179	U	<0.00167	U	<0.00167	U	<0.00287	U
S4 E (0.5-1.0)	11/5/2013 12:43	<0.00179	U	<0.00167	U	<0.00167	U	<0.00286	U
S5 W (0.1-0.5)	11/5/2013 12:56	<0.00174	U	<0.00162	U	<0.00162	U	<0.00278	U
S5 W (0.5-1.0)	11/5/2013 13:03	<0.00653	U	<0.00619	U	<0.00619	U	<0.0106	U

Notes:

RRS = Risk Reduction Standard.
mg/kg = Milligrams per kilogram
NA = sample not analyzed
U = Analyte was not detected.
J = Target analyte concentration was positively identified below the quantization limit and above the detection limit.
D = Diluted

0.00512 = Result is above detection limit
1.60 = Result exceeds delineation criteria
14.4 = Result exceeds RRS
* = Type 3 RRS
*[2] = Type 4 RRS

Table 3-1: Well Construction Information

Well I.D. (dia, in.)	TOC Elevation (ft.)	Measured Total Depth (BTOC) (ft.)	Stick Up Height (ft.)	Measured Total Depth (BGS) (ft.)	Screen Length (ft.)	Screen Slot Size (in.)	Well Casing and Screen Material	Filter Pack	Filter Pack Diameter (in.)	Filter Pack Interval (BGS) (ft.)	Filter Pack Seal	Date of Installation	Installation Type	Well Development Procedure
MW-1 (2)	105.22	32.80	2.51	30.29	10.00	0.01	Schedule 40 PVC screen and casing	UNK	4.25	17.5 - 29.5	Bentonite	6/16/1993	CME 55, 4 1/4-in ID, HSA	UNK
MW-1A (2)	105.33	36.81	2.85	33.96	10.00	0.01	Schedule 40 PVC screen and casing	UNK	3.25		Bentonite	11/8/1993	CME 55, 3 1/4-in ID, HAS	UNK
MW-2 (2)	98.86	29.20	2.85	26.35	10.00	0.01	Schedule 40 PVC screen and casing	UNK	4.25	11.0 - 23.0	Bentonite	6/16/1993	CME 55, 4 1/4-in ID, HSA	UNK
MW-3 (2)	97.12	27.32	2.83	24.49	10.00	0.01	Schedule 40 PVC screen and casing	UNK	4.25	13.0 - 25.0	Bentonite	6/16/1993	CME 55, 4 1/4-in ID, HSA	UNK
MW-4U (2)	103.51	32.38	2.05	30.33	15.00	UNK	Schedule 40 PVC screen and casing	UNK	8	16.0 - 31.0	Bentonite	7/17/2001	CME 75, 8-in ID, Hollow Stem Auger	UNK
MW-5A (2)	96.67	22.82	-0.3	23.12	10.00	UNK	UNK	UNK	UNK	UNK	UNK	UNK	UNK	UNK
MW-5D (2)	96.12	24.88	-0.2	25.08	10.00	UNK	Schedule 40 PVC screen and casing	UNK	8	16.0 - 25.0	Bentonite	7/18/2001	CME 75, 8-in ID, Hollow Stem Auger	UNK
MW-6 (2)	102.25	51.81	-0.2	52.01	5.00	UNK	Schedule 40 PVC screen and casing	UNK	8	47.0 -52.0	Bentonite	9/11/2001	CME 75, 8-in ID, Hollow Stem Auger	UNK
MW-7 (2)	98.10	22.25	0.5	21.75	11.00	UNK	Schedule 40 PVC screen and casing	UNK	8	15.0 - 26.0	Bentonite	9/12/2001	CME 75, 8-in ID, Hollow Stem Auger	UNK
MW-8 (2)	93.54	21.96	-0.3	22.26	11.00	UNK	Schedule 40 PVC screen and casing	UNK	8	12.0 - 23.0	Bentonite	9/12/2001	CME 75, 8-in ID, Hollow Stem Auger	UNK
MW-9 (2)	NL	NL	NL	NL	NL	UNK	Schedule 40 PVC screen and casing	UNK	8	14.0 - 25.0	Bentonite	9/13/2001	CME 75, 8-in ID, Hollow Stem Auger	UNK
MW-10 (2)	99.83	30.75	0.1	30.65	10.00	UNK	Schedule 40 PVC screen and casing	UNK	8	20.0 - 30.0	Bentonite	4/16/2002	CME 550, 8-in ID, Hollow Stem Auger	UNK
MW-11 (2)	100.87	27.50	-0.3	27.80	10.00	UNK	Schedule 40 PVC screen and casing	UNK	8	17.0 - 27.0	Bentonite	4/16/2002	CME 550, 8-in ID, Hollow Stem Auger	UNK
MW-12 (2)	94.06	22.53	-0.25	22.78	10.00	UNK	Schedule 40 PVC screen and casing	UNK	8	12.0 - 22.0	Bentonite	4/16/2002	CME 550, 8-in ID, Hollow Stem Auger	UNK
MW-13 (2)	93.55	22.03	-0.3	22.33	10.00	UNK	Schedule 40 PVC screen and casing	UNK	8	12.0 - 22.0	Bentonite	4/16/2002	CME 550, 8-in ID, Hollow Stem Auger	UNK
MW-14 (2)	102.11	71.50	-0.15	71.65	5.00	UNK	Schedule 40 PVC screen and casing	UNK	1.67	67.0 - 72.0	Bentonite	4/10/2003	CME-75 (Auto-Hammer), I0/6-in ID, Mud Rotary	UNK
MW-15 (2)	98.13	21.51	0.00	21.51	10.00	UNK	Schedule 40 PVC screen and casing	UNK	8	13.0 - 23.0	Bentonite	4/10/2003	CME 75 (Auto-Hammer, 8-in ID, Hollow Stem Auger	UNK
MW-16 (2)	97.15	23.83	-0.2	24.03	10.00	UNK	Schedule 40 PVC screen and casing	UNK	8	14.0 - 24.0	Bentonite	4/10/2003	CME 75 (Auto-Hammer, 8-in ID, Hollow Stem Auger	UNK
MW-17 (2)	93.65	59.55	-0.45	60.00	10.00	2	Schedule 40 PVC screen and casing 10 Slot	DSI #1 filter sand	6.25	50.0 - 60.0	Bentonite/ Portland Cement	4/15/2008	6 1/4-in ID, Hollow Stem Auger	Typhoon pump and surge block
MW-18 (2)	95.56	32.83	-0.4	33.23	10.00	2	Schedule 40 PVC screen and casing 10 Slot	#5 sand	6	22.0 - 32.0	Bentonite/ Portland Cement	7/28/2009	MiniSonic Rig w/ 4x6" Tooling	Typhoon pump and surge block
MW-19 (2)	96.60	32.43	-0.35	32.78	10.00	2	Schedule 40 PVC screen and casing 10 Slot	#5 sand	6	22.0 - 32.0	Bentonite/ Portland Cement	7/29/2009	MiniSonic Rig w/ 4x6" Tooling	Typhoon pump and surge block
MW-20 (2)	96.57	32.80	-0.25	33.05	10.00	2	Schedule 40 PVC screen and casing 10 Slot	#5 sand	6	22.0 - 32.0	Bentonite/ Portland Cement	7/29/2009	MiniSonic Rig w/ 4x6" Tooling	Typhoon pump and surge block
MW-21 (2)	97.55	31.50	-0.075	31.58	10.00	2	Schedule 40 PVC screen and casing 10 Slot	#5 sand	6	22.0 - 32.1	Bentonite/ Portland Cement	7/30/2009	MiniSonic Rig w/ 4x6" Tooling	Typhoon pump and surge block
MW-22 (2)	98.88	33.54	-0.2	33.74	10.00	0.01	2 - inch PVC	#2 sand	UNK	25.0 - 35.0	Bentonite	3/8/2012	UNK	Whale Pump

Table 3-1: Well Construction Information

Well I.D. (dia, in.)	TOC Elevation (ft.)	Measured Total Depth (BTOC) (ft.)	Stick Up Height (ft.)	Measured Total Depth (BGS) (ft.)	Screen Length (ft.)	Screen Slot Size (in.)	Well Casing and Screen Material	Filter Pack	Filter Pack Diameter (in.)	Filter Pack Interval (BGS) (ft.)	Filter Pack Seal	Date of Installation	Installation Type	Well Development Procedure
MW-23 (2)	93.61	24.00	0	24.00	10.00	0.01	Schedule 40 PVC screen and casing	10/30 Silica Sand	8.25	14.0 - 24.0	Bentonite	4/23/2013	6620DT Geoprobe with Hollow Stem Auger	Surge and Block
MW-24 (2)	93.07	22.81	0.18	22.63	10.00	0.01	Schedule 40 PVC screen and casing	20/30 Silica Sand	8.25	12.5 - 22.5	Bentonite	12/3/2014	6620DT Geoprobe with Hollow Stem Auger	Surge and Block

Notes:

All well information is derived from historical well installation logs prepared by previous consultants or Environmental International Corporation.

TOC = Top of Casing

GS = Ground Surface

BTOC = Below Top of Casing

BGS = Below Ground Surface

NL = Not Located

UNK = Unknown

ft. = feet

in. = inches

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

Well ID # (Well Diameter, in.)	Sample Date	Groundwater Quality Field Parameters					
		Temp (Celsius)	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	0.72	2.20	4.58
	3/25/2014	19.10	4.07	377.00	0.55	0.00	4.99
	9/4/2014	23.21	3.70	382.00	0.63	4.50	4.99
	3/3/2015	18.94	3.06	354.00	0.51	0.00	2.65
	9/15/2015	23.20	3.48	321.00	0.41	0.00	2.64
	3/1/2016	19.61	3.19	301.00	0.53	0.00	1.31
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
	3/25/2014	17.97	4.01	400.00	0.761	0.00	2.26
	9/4/2014	22.15	3.78	372.00	0.818	35.40	3.61
	3/3/2015	20.02	3.17	334.00	0.704	0.00	1.80
	9/15/2015	21.78	3.48	331.00	0.51	0.00	1.80
	3/1/2016	19.42	3.21	318.00	0.806	0.00	0.82
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
	3/25/2014	17.33	4.84	295.00	0.065	0.00	4.16
	9/3/2014	18.94	3.86	226.00	0.075	0.00	1.16
	3/2/2015	18.38	4.14	275.00	0.066	0.00	2.58
	9/14/2015	19.41	4.45	268.00	0.076	0.00	0.79
	2/29/2016	18.51	4.44	244.00	0.053	0.00	5.25
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
	3/25/2014	19.18	5.57	220.00	0.065	0.00	6.43
	9/4/2014	19.98	4.65	231.00	0.072	17.50	4.97
	3/3/2015	16.34	4.47	665.00	0.077	0.00	7.00
	9/15/2015	20.00	4.78	223.00	0.067	0.00	4.04
	3/1/2016	18.33	4.26	221.00	0.070	0.00	7.80

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

Well ID # (Well Diameter, in.)	Sample Date	Groundwater Quality Field Parameters					
		Temp (Celsius)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
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
	3/25/2014	20.85	4.44	308.00	0.262	0.00	3.76
	9/4/2014	20.30	3.68	309.00	0.198	0.00	4.95
	3/3/2015	17.80	3.48	325.00	0.284	0.00	4.80
	9/15/2015	21.52	3.91	280.00	0.169	0.00	3.93
	3/1/2016	19.97	3.41	278.00	0.218	0.00	5.41
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
	3/26/2014	20.00	4.22	260.00	0.608	0.00	3.24
	9/5/2014	23.84	4.03	308.00	0.829	0.00	1.47
	3/5/2015	22.58	3.37	259.00	1.070	0.00	3.37
	9/17/2015	26.67	3.96	271.00	0.680	0.00	0.91
	3/2/2016	22.71	4.14	153.00	0.401	0.00	4.20
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
	3/26/2014	18.91	3.53	275.00	1.870	0.00	0.60
	9/3/2014	24.94	3.62	300.00	0.988	0.00	0.71
	3/5/2015	21.45	3.17	286.00	2.040	0.00	1.30
	9/17/2015	26.48	3.84	270.00	0.465	0.00	0.37
	3/2/2016	22.62	3.37	213.00	2.010	0.00	2.95

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

Well ID # (Well Diameter, in.)	Sample Date	Groundwater Quality Field Parameters					
		Temp (Celsius)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
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
	3/26/2014	21.58	5.80	61.00	1.760	15.20	0.71
	9/4/2014	22.84	5.70	65.00	1.870	86.00	0.66
	3/4/2015	22.52	5.67	43.00	1.610	2.70	0.45
	9/16/2015	21.93	5.41	46.00	1.710	0.00	0.47
	3/2/2016	21.05	5.10	22.00	1.770	1.80	0.33
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
	3/26/2014	18.95	3.91	284.00	0.541	0.00	1.63
	9/3/2014	24.29	3.45	304.00	0.926	0.00	1.47
	3/4/2015	23.72	7.91	288.00	0.524	0.00	1.25
	9/16/2015	25.04	3.99	240.00	0.477	0.00	0.98
	3/3/2016	21.18	4.10	242.00	0.332	2.70	2.11
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	0.64	0.00	1.31
	3/26/2014	18.72	3.93	274.00	0.734	1.10	3.57
	9/3/2014	27.23	3.41	311.00	0.730	0.00	1.29
	3/5/2015	21.74	3.25	244.00	1.220	0.00	1.31
	9/16/2015	27.08	3.91	248.00	0.642	0.00	1.85
	3/2/2016	22.41	3.59	206.00	0.747	0.00	1.29

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

Well ID # (Well Diameter, in.)	Sample Date	Groundwater Quality Field Parameters					
		Temp (Celsius)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
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
	3/25/2014	NL	NL	NL	NL	NL	NL
	9/3/2014	NL	NL	NL	NL	NL	NL
	9/15/2015	NL	NL	NL	NL	NL	NL
	3/2/2016	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
	3/26/2014	20.16	3.88	320.00	0.823	0.00	1.71
	9/3/2014	23.99	3.63	288.00	0.911	0.00	1.43
	3/5/2015	20.05	3.11	297.00	1.430	0.00	2.08
	9/17/2015	23.42	3.83	290.00	0.708	0.00	1.14
	3/3/2016	21.85	3.80	257.00	0.744	7.50	2.10
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
	3/25/2014	18.20	4.19	351.00	0.190	6.70	5.06
	9/3/2014	20.20	3.30	300.00	0.182	0.00	4.85
	3/5/2015	18.46	3.44	320.00	0.181	0.00	4.68
	9/14/2015	21.22	3.92	311.00	0.155	0.00	4.81
	2/29/2016	19.32	3.61	296.00	0.156	0.00	4.66
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
	3/26/2014	18.64	5.93	213.00	1.070	0.00	1.38
	9/2/2014	23.31	6.87	117.00	0.619	0.00	0.62
	3/4/2015	22.47	5.89	101.00	0.846	0.00	3.27
	9/16/2015	24.46	6.93	65.00	0.894	0.00	0.44
	3/2/2016	20.75	5.81	40.00	1.070	0.00	0.89

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

Well ID # (Well Diameter, in.)	Sample Date	Groundwater Quality Field Parameters					
		Temp (Celsius)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
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
	3/26/2014	17.75	4.95	77.00	0.42	0.00	0.91
	9/2/2014	22.57	5.93	211.00	0.48	0.00	1.69
	3/5/2015	18.20	4.53	68.00	0.93	0.00	1.45
	9/16/2015	20.62	5.15	109.00	0.48	0.00	1.28
	3/2/2016	18.59	4.81	94.00	0.45	0.00	1.45
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
	3/25/2014	18.53	7.40	-146.00	0.267	5.80	0.66
	9/4/2014	22.27	7.51	-163.00	0.290	1.90	0.51
	3/4/2015	21.41	7.67	-180.00	0.250	0.00	2.65
	9/16/2015	22.01	7.35	-139.00	0.252	0.00	0.60
	3/2/2016	20.78	6.88	-115.00	0.242	0.00	0.42
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
	3/26/2014	16.50	4.30	292.00	4.94	0.00	1.32
	9/3/2014	24.75	4.29	250.00	3.77	0.00	1.75
	3/4/2015	21.30	4.51	237.00	2.60	0.00	0.68
	9/15/2015	23.92	4.09	236.00	3.44	0.00	0.43
	3/1/2016	22.07	4.65	156.00	5.54	0.00	0.61
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
	3/26/2014	19.59	4.96	236.00	0.030	0.00	4.99
	9/3/2014	28.38	4.75	259.00	0.026	0.00	4.33
	3/3/2015	20.72	4.53	183.00	0.025	0.00	6.34
	9/16/2015	23.92	4.59	199.00	0.025	0.00	4.43
	3/3/2016	20.44	4.82	203.00	0.030	8.00	6.91

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

Well ID # (Well Diameter, in.)	Sample Date	Groundwater Quality Field Parameters					
		Temp (Celsius)	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
	3/27/2014	19.70	7.50	2.00	0.413	9.60	0.48
	9/2/2014	25.89	7.17	-118.00	0.401	11.10	0.40
	3/3/2015	20.04	6.74	-58.00	0.498	0.00	0.52
	9/14/2015	21.63	7.20	105.00	0.460	17.90	0.55
	3/2/2016	19.41	6.74	93.00	0.458	0.00	0.42
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
	3/26/2014	21.36	6.79	124.00	1.880	0.80	1.36
	9/4/2014	25.62	6.27	221.00	1.910	0.80	0.60
	3/4/2015	22.61	6.68	112.00	1.430	7.90	0.68
	9/15/2015	24.44	6.45	134.00	1.480	19.50	0.37
	3/1/2016	23.75	6.05	75.00	1.850	0.00	0.51
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
	3/25/2014	20.52	4.31	282.00	1.380	95.00	0.85
	9/3/2014	25.69	4.00	313.00	1.320	13.20	0.63
	3/4/2015	21.20	3.95	331.00	1.130	98.10	0.58
	9/15/2015	23.40	3.64	322.00	0.936	5.30	0.60
	3/1/2016	22.56	3.51	303.00	0.974	72.00	0.53

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

Well ID # (Well Diameter, in.)	Sample Date	Groundwater Quality Field Parameters					
		Temp (Celsius)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
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
	3/27/2014	17.58	4.34	308.00	0.253	0.00	6.49
	9/5/2014	23.44	3.84	304.00	0.394	0.00	6.74
	3/5/2015	17.67	3.72	273.00	0.445	0.00	6.53
	9/17/2015	23.38	4.13	273.00	0.282	0.00	4.99
	3/3/2016	21.45	4.02	253.00	0.177	0.00	6.44
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
	3/27/2014	21.74	5.17	194.00	0.222	14.10	3.55
	9/5/2014	25.15	3.83	305.00	0.889	0.00	4.24
	3/5/2015	19.01	3.54	282.00	1.110	0.00	4.09
	9/17/2015	22.94	4.30	254.00	0.265	0.00	4.75
	3/3/2016	21.50	4.85	208.00	0.201	0.00	5.36
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
	3/27/2014	18.50	3.86	356.00	0.650	9.90	2.99
	9/5/2014	25.73	3.83	337.00	0.697	0.00	2.90
	3/6/2015	18.55	3.58	295.00	0.742	23.30	2.76
	9/17/2015	24.47	3.79	288.00	0.481	3.50	2.71
	3/3/2016	21.96	3.76	269.00	0.510	0.00	3.23

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

Well ID # (Well Diameter, in.)	Sample Date	Groundwater Quality Field Parameters					
		Temp (Celsius)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
MW-23 (2)	7/8/2014	24.94	3.74	358.00	1.310	0.00	1.34
	9/2/2014	26.47	4.67	154.00	1.040	0.00	0.55
	3/5/2015	23.11	4.47	177.00	1.470	0.00	0.93
	9/17/2015	24.95	5.33	216.00	0.925	0.00	0.53
	3/3/2016	21.48	4.60	187.00	0.899	0.00	0.29
MW-24 (2)	3/3/2015	20.86	5.72	189.00	0.214	0.00	2.14
	9/14/2015	19.62	6.30	188.00	0.260	0.00	2.56
	3/2/2016	17.82	5.50	167.00	0.204	0.00	3.58

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 March 2013 to March 2016, 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 3-3: Historical Groundwater Potentiometric Surface Elevations

Well ID # (Well Diameter, in.)	Current TOC Elevation (ft.)	Groundwater Potentiometric Surface Elevation (ft.)															MW Min.*	MW Max.*	MW Range*	MW Avg.*	MW Var.*
		Aug-99	Sep-01	Apr-02	Apr-08	Aug-09	Jul-11	Apr-12	Mar-13	Jun-13	Sep-13	Dec-13	Mar-14	Sep-14	Mar-15	Sep-15	Mar-16					
MW-1 (2)	105.22	NM	NM	NM	79.59	78.22	76.32	77.48	79.63	78.07	79.60	78.00	79.77	77.51	79.11	77.29	80.27	76.32	80.27	3.95	78.53	1.46
MW-1A (2)	105.33	76.54	77.22	77.38	79.57	78.47	76.33	77.48	79.62	78.06	79.58	77.97	79.88	77.50	79.11	77.29	80.26	76.33	80.26	3.93	78.27	1.57
MW-2 (2)	98.86	76.48	77.13	77.36	79.45	78.16	78.25	NM	79.54	77.97	79.41	77.89	79.83	77.39	78.98	77.20	80.16	76.48	80.16	3.68	78.35	1.30
MW-3 (2)	97.12	76.42	77.11	77.39	NL	NL	NL	NL	NL	NL	79.20	77.78	79.69	77.28	78.95	77.19	79.92	76.42	79.92	3.50	78.09	1.52
MW-4U (2)	103.51	NI	77.12	77.3	79.64	78.36	NM	77.51	79.60	78.16	79.59	77.98	79.81	77.55	78.99	77.25	80.28	77.12	80.28	3.16	78.51	1.23
MW-5A (2)	96.67	NI	NM	NM	78.96	77.91	76.35	77.32	79.12	77.71	79.07	77.71	79.38	77.24	78.94	77.22	79.67	76.35	79.67	3.32	78.20	1.08
MW-5D (2)	96.12	NI	77.1	77.36	78.40	77.92	76.37	77.36	79.16	77.77	79.10	77.76	79.36	77.31	78.94	77.24	79.66	76.37	79.66	3.29	78.05	0.97
MW-6 (2)	102.25	NI	77.17	77.7	79.24	78.70	76.40	77.46	79.53	77.87	79.25	77.81	79.59	77.39	78.96	77.30	79.93	76.40	79.93	3.53	78.29	1.17
MW-7 (2)	98.1	NI	77.09	77.49	79.74	78.50	DRY	77.56	79.67	78.11	79.75	78.19	80.01	77.58	79.41	77.42	80.38	77.09	80.38	3.29	78.64	1.31
MW-8 (2)	93.54	NI	76.6	77.4	78.75	77.79	76.34	77.25	78.64	77.52	78.88	77.69	79.20	77.22	78.90	77.18	79.49	76.34	79.49	3.15	77.92	0.96
MW-9 (2)	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NA	NA	NA	NA	NA	NA
MW-10 (2)	99.83	NI	NI	77.45	79.75	78.52	76.33	77.58	79.72	78.10	79.76	78.12	80.07	77.58	79.08	77.51	80.22	76.33	80.22	3.89	78.56	1.47
MW-11 (2)	100.87	NI	NI	77.46	79.88	76.67	79.57	77.6	79.83	78.16	79.83	78.1	80.1	77.58	79.50	77.39	80.47	76.67	80.47	3.80	78.72	1.61
MW-12 (2)	94.06	NI	NI	77.35	78.23	77.39	76.25	76.88	78.39	77.06	78.14	77.36	78.51	76.80	78.66	76.83	78.93	76.25	78.93	2.68	77.63	0.70
MW-13 (2)	93.55	NI	NI	77.38	78.10	77.13	DRY	DRY	78.53	76.98	77.87	76.98	78.31	76.58	78.47	76.71	79.09	76.58	79.09	2.51	77.68	0.68
MW-14 (2)	102.11	NI	NI	NI	79.30	78.16	76.36	77.45	78.72	76.72	78.97	77.95	78.59	76.86	79.11	77.33	79.97	76.36	79.97	3.61	78.11	1.24
MW-15 (2)	98.13	NI	NI	NI	78.88	78.01	DRY	77.40	79.24	78.10	79.18	78.10	79.35	77.37	78.93	77.30	79.67	77.30	79.67	2.37	78.46	0.72
MW-16 (2)	97.15	NI	NI	NI	79.66	78.50	76.45	77.56	79.73	78.18	79.91	78.12	79.99	77.71	79.22	77.50	80.35	76.45	80.35	3.90	78.68	1.46
MW-17 (2)	93.65	NI	NI	NI	79.03	77.90	76.24	75.26	79.17	77.58	79.04	77.80	79.30	77.25	79.12	77.23	79.72	75.26	79.72	4.46	78.05	1.78
MW-18 (2)	95.56	NI	NI	NI	NI	78.15	76.43	77.42	79.39	77.91	79.42	77.92	79.56	77.43	79.02	77.38	79.93	76.43	79.93	3.50	78.33	1.22
MW-19 (2)	96.6	NI	NI	NI	NI	78.07	76.35	77.35	79.40	77.80	79.47	77.89	79.68	77.39	79.06	77.30	79.97	76.35	79.97	3.62	78.31	1.35
MW-20 (2)	96.57	NI	NI	NI	NI	78.48	76.38	77.49	79.68	78.08	79.73	78.08	79.93	77.57	79.29	77.47	80.36	76.38	80.36	3.98	78.55	1.53
MW-21 (2)	97.55	NI	NI	NI	NI	78.41	76.34	77.53	79.71	78.05	79.79	78.08	79.98	77.53	79.36	77.44	80.36	76.34	80.36	4.02	78.55	1.60
MW-22 (2)	98.88	NI	NI	NI	NI	NI	NM	77.47	79.74	78.10	79.75	78.12	79.96	77.57	79.28	77.50	80.43	77.47	80.43	2.96	78.79	1.33
MW-23 (2)	93.61	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	77.03	78.73	76.98	79.17	76.98	79.17	2.19	77.98	1.29
MW-24 (2)	93.07	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	78.72	76.86	79.03	76.86	79.03	2.17	78.20	1.38
Event Min.*[2]		76.42	76.60	77.30	78.10	76.67	76.24	75.26	78.39	76.72	77.87	76.98	78.31	76.58	78.47	76.71	78.93	**Global Min.*[3]**		75.26		
Event Max.*[2]		76.54	77.22	77.70	79.88	78.70	79.57	77.60	79.83	78.18	79.91	78.19	80.10	77.71	79.50	77.51	80.47	**Global Max.*[3]**		80.47		
Event Range*[2]		0.12	0.62	0.40	1.78	2.03	3.33	2.34	1.44	1.46	2.04	1.21	1.79	1.13	1.03	0.80	1.54	**Global Range*[3]**		5.21		
Event Avg.*[2]		76.48	77.07	77.42	79.19	78.07	76.65	77.32	79.35	77.82	79.32	77.89	79.56	77.34	79.03	77.25	79.91	**Global Avg.*[3]**		78.10		
Event Var.*[2]		0.00	0.04	0.01	0.31	0.25	0.78	0.26	0.19	0.17	0.27	0.08	0.26	0.08	0.06	0.04	0.22	**Global Var.*[3]**		1.26		

Notes:

NI - Not Installed

NL - Not Located

NA - Not Applicable

*** = Event Min, Max, Range, Avg., and Var.** - are the minimum, maximum, range, average, and total variance for each respective groundwater gauging event.

***[2] = MW Min., Max., Range, Avg., and Var.** - are the minimum, maximum, range, average, and total variance for each monitoring well throughout all gauging events from March 2013 to March 2016 where available.

***[3]= Global Min., Max., Range, Avg., and Var.** - are the minimum, maximum, range, average, and total variance for all monitoring wells throughout all events from March 2013 to March 2016

Groundwater elevations prior to March 2013 are derived from historical groundwater monitoring reports by previous consultants

Top of casing (TOC) elevations are based on the most recent survey by Donaldson Garrett and Associates in April 2015

Table 3-4: Groundwater Pesticides Analytical Results

Test 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	
Site-Specific RRS Values (ug/L)		0.5		1.6		0.1		2.6		NA		0.2		NA		NA		NA		8.4		NA		NA		12		NA		8.4		NA		NA		NA		NA		NA		NA	
Type RRS		4		4		4		4		NA		4		NA		NA		NA		4		NA		NA		4		NA		4		NA		NA		NA		NA		NA		NA	
Well ID	Sample Date	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag
MW-1	4/15/2008	0.010	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	0.051	U	0.51	U		
	8/5/2009	**0.095**		**0.113**		0.051	U	**0.065**		0.051	U	0.051	U	0.051	U	**0.00462**	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	5.1	U		
	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00722	U	0.00742	U	0.00722	U	0.01320	U	0.0105	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
	3/25/2014	0.003	U	0.00232	U	0.00131	U	0.00169	U	0.00551	U	0.00323	U	0.00142	U	0.00099	U	0.001500	U	0.00598	U	0.00144	U	0.00175	U	0.00298	U	0.00115	U	0.03430	U	0.00176	U	0.00341	U	0.00484	U	0.00326	U	0.00141	U	0.0762	U
	9/4/2014	**0.0343**	J	**0.231**		0.002	U	**0.0362**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	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		
	3/3/2015	0.0101	U	0.0023	UF	0.002	UF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
	9/15/2015	0.0034	U	0.0090	U	0.0074	U	0.0035	U	0.00700	U	0.0071	U	0.00360	U	0.00340	U	0.003700	U	0.005	U	0.00520	U	0.00410	U	0.00620	U	0.00500	U	0.00690	U	0.0097	U	0.60000	U	0.09400	U	0.09400	U	0.00450	U	0.390	U
	3/7/2016	0.0034	U	**0.0100**	J P	0.0074	U	0.0036	U	0.00700	U	0.0071	U	0.00370	U	0.00350	U	0.003800	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00690	U	0.0097	U	0.00610	U	0.09400	U	0.09400	U	0.00460	U	0.400	U
MW-1A	9/1/2001	0.100	U	0.1	U	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	0.010	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	0.051	U	0.51	U		
	8/5/2009	**0.092**		**0.158**		0.051	U	**0.063**		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		
	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00711	U	0.00731	U	0.00711	U	0.01300	U	0.0104	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
	3/25/2014	0.003	U	0.00237	U	0.00134	U	0.00173	U	0.00562	U	0.00329	U	0.00145	U	0.00101	U	0.001530	U	0.0061	U	0.00147	U	0.00179	U	0.00304	U	0.00117	U	0.03500	U	0.0018	U	0.00347	U	0.00494	U	0.00333	U	0.00144	U	0.0777	U
	9/4/2014	**0.023**	J	**0.161**		**0.0046**	J	**0.0213**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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		
	3/3/2015	0.010	U	**0.021**	JF	0.0020	UF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
	9/15/2015	0.003	U	**0.008**	U	0.0069	U	0.0033	U	0.00660	U	0.0066	U	0.00340	U	0.00320	U	0.00350	U	0.0047	U	0.00490	U	0.00390	U	0.00580	U	0.00470	U	0.00650	U	0.009	U	0.00560	U	0.08800	U	0.08800	U	0.00420	U	0.37	U
	3/7/2016	**0.011**	J P	**0.033**	J	0.0075	U	**0.0054**	J	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
MW-2	4/16/2008	0.010	U	**0.0099**	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	0.51	U		
	7/14/2011	0.050	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00711	U	0.00731	U	0.00711	U	0.01300	U	0.0104	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	0.01040	U	0.0107	U	0.00822	U	0.00711	U	0.00822	U	0.00731	U	0.00508	U
	3/25/2014	0.003	U	0.00231	U	0.00131	U	0.00168	U	0.00548	U	0.00321	U	0.00142	U	0.00099	U	0.001490	U	0.00595	U	0.00143	U	0.00175	U	0.00269	U	0.00115	U	0.03420	U	0.00176	U	0.00339	U	0.00482	U	0.00324	U	0.00141	U	0.0758	U
	9/3/2014	0.0101	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/2/2015	0.0101	U	0.0023	UF	0.002	UF	0.0016	U	0.00290	U	0.0026	U	0.00208	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.02200	U	0.00450	UF	0.423	U
	9/14/2015	0.0034	U	0.0090	U	0.0074	U	0.0036	U	0.00700	U	0.0071	U	0.00370	U	0.00350	U	0.00380	U	0.005	U	0.00520	U	0.00420	U	0.00620	U	0.00500	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00460	U	0.40	U
	3/7/2016	0.0034	U	0.0090	U	0.0074	U	0.0036	U	0.00700	U	0.0071	U	0.00370	U	0.00350	U	0.00370	U	0.005	U	0.00410	U	0.00410	U	0.00620	U	0.00500	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00450	U	0.39	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		NS	
	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.009	U	0.00824	U	0.00847	U	0.00824	U	0.01510	U	0.012	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
	3/25/2014	0.003	U	0.00235	U	0.00133	U	0.00171	U	0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.001510	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	U
	9/4/2014	0.0101	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	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
	3/3/2015	0.0101	U	0.0023	UF	0.002	UF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
	9/15/2015	0.0034	U	0.0091	U	0.0074	U	0.0036	U	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.003800	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610		0.09500	U	0.09500	U	0.00460	U	0.40	U
	3/7/2016	0.0034	U	0.0094	U	0.0074	U	0.0036	U	0.00700	U	0.0071	U	0.00370	U	0.00350	U	0.003800	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00690	U	0.0097	U	0.00610	U	0.09400	U	0.09400	U	0.00460	U	0.40	U
MW-4U	9/1/2001	0.100	U	0.1	U	**0.1**	U	0.1	U	NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM			U
	4/15/2008	0.010	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.52	U
	8/5/2009	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.101	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	U
	3/28/2013	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00788	U	0.008	U	0.00778	U	0.01420	U	0.0113	U	0.00922	U	0.00878	U	0.00050	U	0.009	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
	3/25/2014	0.003	U	0.00235	U	0.00133	U	0.00171	U	0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	U
	9/4/2014	0.0101	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	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
	3/3/2015	0.0101	U	0.0023	UF	0.002	UF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
	9/15/2015	0.0034	U	0.0090	U	0.0074	U	0.0036	U	0.00700	U	0.0071	U	0.00370	U	0.00350	U	0.003800	U	0.0051	U	0.00520	U	0.00420	U	0.00620	U	0.00510	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00460	U	0.40	U
	3/7/2016	0.0033	U	0.0089	U	0.0073	U	0.0035	U	0.00700	U	0.0071	U	0.00360	U	0.00340	U	0.003700	U	0.0050	U	0.00520	U	0.00410	U	0.00620	U	0.00500	U	0.00690	U	0.00960	U	0.00600	U	0.09300	U	0.09300	U	**0.0650**		0.39	U
MW-5A	4/16/2008	**0.120**		**2.4**		**0.63**		**0.04**	J	0.051	U	**0.023**	J	0.051	U	0.051	U	**2.7**		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	**0.14**		0.51	U
	8/4/2009	**0.510**	J	**18**		**2.2**		**0.155**	J	1.01	U	1.01	U	1.01	U	1.01	U	1.70	U	2.02	U	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	1.01	U	**0.340**	J	101	U
	7/15/2011	**0.130**		**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	0.208	U	1.04	U	0.208	U	0.104	U	0.104	U	0.208	U	10.4	U
	4/6/2012	**0.430**	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	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	**0.100**		**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	0.010	U	**0.389**		0.002	U	0.0016	U	0.00290	U	**0.0286**	J	**0.236**		0.00240	U	**2.75**	D	0.0035	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	0.009	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
	3/26/2014	**0.239**		0.00232	U	**0.668**		**0.24**		0.00551	U	0.0747	U	0.00142	U	0.00099	U	0.0015	U	0.00598	U	0.00144	U	0.00175	U	0.00298	U	0.00115	U	0.03430	U	0.00176	U	0.00341	U	0.00484	U	0.00326	U	0.244	U	0.0762	U
	9/5/2014	**0.322**		**7.47**	D	**1.01**	D	**0.298**		0.00290	U	**0.0787**		0.00280	U	0.00240	U	**1.99**	D	0.0035	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	**0.235**		0.423	U
	3/3/2015	**0.062**		**1.63**	DF	**0.255**	F	**0.0545**		0.00290	U	**0.0219**		0.00280	U	0.00240	U	**1.80**		0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	**0.070**	J	0.423	U
	9/17/2015	**0.59**		**8.6**		**1.2**		**0.20**	P	0.00690	U	**0.045**	J P	0.00360	U	0.00340	U	**1.60**		0.005	U	0.00520	U	0.00410	U	0.00610	U	0.00500	U	0.00680	U	0.0095	U	0.00590	U	0.09200	U	0.09200	U	**0.200**		0.39	U
	3/7/2016	**0.29**		**3.0**		**0.6**		**0.13**		0.00710	U	0.0072	U	0.00370	U	0.00350	U	**2.20**		0.005	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	**0.130**		0.40	U
MW-5D	7/1/2001	**1.000**		**8.7**		**3.7**		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/15/2008	**0.190**		**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	0.051	U	**0.061**		0.051	U
	8/3/2009	**1.180**	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	4.04	U	20.2	U	4.04	U	**2.02**		2.02	U	4.04	U	202	U
	7/15/2011	**0.500**	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	1	U	5	U	1	U	0.5	U	0.5	U	1	U	50	U
	4/6/2012	**0.660**		**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	1.02	U	5.1	U	1.02	U	5.1	U	5.1	U	**1.02**		51	U
	11/20/2012	**0.720**		**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	0.0098	U	0.0049	U	0.0049	U	0.0098	U	0.98	U
	3/26/2013	0.002	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	0.010	U	**0.12**		0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.012	U	0.00976	U	0.00929	U	**0.116**		0.00953	U	0.01330	U	0.01060	U	0.00

Table 3-4: Groundwater Pesticides Analytical Results

Test 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	
Site-Specific RRS Values (ug/L)		0.5		1.6		0.1		2.6		NA		0.2		NA		NA		NA		8.4		NA		NA		12		NA		8.4		NA		NA		NA		NA		NA		NA	
Type RRS		4		4		4		4		NA		4		NA		NA		NA		NA		NA		NA		NA		NA		4		NA		NA		NA		NA		NA		NA	
Well ID	Sample Date	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag
MW-6	4/1/2002	1.200		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	1.700		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
	8/4/2009	2.360		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	2.500		2.5		7.9		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	1.05	U	5.26	U	1.05	U	0.526	U	0.526	U	1.05	U	52.6	U
	4/5/2012	1.400		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	1.400	*	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	0.0049	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	1.290		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	1.230		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	1.510	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	0.0035	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	1.680		1.67		2.71	DX	0.035		0.0142	U	0.0113	U	0.00922	U	0.00878	U	0.000522	J	0.009	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	0.008	U	0.00556	U
	3/26/2014	0.797		1.16		1.98		0.00173	U	0.00562	U	0.00329	U	0.00145	U	0.00101	U	0.00153	U	0.0061	U	0.00147	U	0.00179	U	0.00304	U	0.00117	U	0.03500	U	0.0018	U	0.00347	U	0.00494	U	0.00333	U	0.00144	U	0.0777	U
	9/8/2014	0.907	D	1.15	D	1.81	D	0.00158	U	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/4/2015	0.348		0.594	F	1.17	DF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
	9/16/2015	0.92		1.3		2.1	P	0.014	J P	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0097	U	0.00610	U	0.09400	U	0.09400	U	0.00460	U	0.40	U
	3/7/2016	0.77		1.5		1.9	P	0.01	J P	0.00700	U	0.0071	U	0.0036	U	0.0035	U	0.00370	U	0.0050	U	0.0052	U	0.0041	U	0.0062	U	0.0050	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.04500	U	0.39	U
MW-7	9/1/2001	20.510		3.23		1.35		2.66		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	6/1/2002	4.300		1.2		1		1.3		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/14/2008	0.580		0.4		0.021	J	0.032	J	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.52	U
	8/5/2009	0.137		0.564		0.051	U	0.129		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	0.051	U	0.00823	J	0.101	U	5.05	U
	3/27/2013	0.030	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	0.002	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	0.061		0.365		0.002	U	0.0332	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.023		0.31		0.0126	J	0.0487		0.01420	U	0.0113	U	0.00922	U	0.00878	U	0.00184	J	0.009	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	0.008	U	0.00556	U
	3/26/2014	0.018		0.264		0.00133	U	0.034		0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/3/2014	0.0364	J	0.409		0.00198	U	0.0660		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/4/2015	0.0101	U	0.427	F	0.0132	JF	0.0334	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
	9/16/2015	0.0046	J P	0.23		0.0074	U	0.012	J	0.00700	U	0.0071	U	0.00380	J P	0.00350	U	0.00370	U	0.005	U	0.00520	U	0.00410	U	0.00620	U	0.00500	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00450	U	0.39	U
	3/7/2016	0.0130	J	0.14		0.0075	U	0.0036	U	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
MW-8	9/2/2001	0.100	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	0.310		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	0.210		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	0.032	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	0.0026	U	0.00280	U	0.00240	U	0.00961	J	0.0035	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	0.0113	U	0.00922	U	0.00878	U	0.0101	J	0.009	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	0.008	U	0.00556	U
	3/26/2014	0.061		0.829		0.0899		0.0392		0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/8/2014	0.179		1.31	D	0.272		0.145		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.0148	J	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/5/2015	0.013	J	0.542	F	0.0231	J F	0.0108	J	0.00180	U	0.0026	U	0.00280	U	0.00240	U	0.0071	J	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/16/2015	0.18		1.2		0.28		0.14		0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.0087	J	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
	3/7/2016	0.043	J	1.0		0.056		0.03		0.007	U	0.0071	U	0.00370	U	0.00350	U	0.0180	J	0.0051	U	0.00520	U	0.00420	U	0.00620	U	0.00510	U	0.00690	U	0.0097	U	0.00660	J	0.03	J	0.09400	U	0.09400	U	0.40	U
MW-9	9/1/2001	0.770		5.01		0.82		0.42		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NL	
	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	
	3/25/2014	NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL	
	9/4/2014	NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL	
	3/5/2015	NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL	
	9/15/2015	NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL	
	3/7/2016	NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL	
MW-10	4/1/2002	1.900		9		3.7		0.86		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	6/3/2002	1.500	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	0.5	U	NM		2	U
	4/14/2008	2.000		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	1.450		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	1.200		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	1.360		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	0.710		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		8.6	D	0.511		0.307		0.346		0.0026	U	0.00280	U	0.00240	U	0.00961	J	0.0035	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		0.064	U	0.051	U	0.04150	U	0.03950	U	0.00725	J	0.0405	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	0.025	U
	3/26/2014	0.315		0.00235	U	0.289		0.147		0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/3/2014	0.443		7.62	D	0.489		0.189		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/5/2015	0.243		4.75	DF	0.294	F	0.111		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/17/2015	0.48		7.1		0.48	P	0.22		0.00700	U	0.0071	U	0.37000	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00620	U	0.00510	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00460	U	0.40	U
	3/7/2016	0.40		6.8		0.38	P	0.18		0.00690	U	0.0070	U	0.00360	U	0.00340	U	0.00370	U	0.0050	U	0.00520	U	0.00410	U	0.00620	U	0.00500	U	0.00680	U	0.0096	U	0.00600	U	0.00930	U	0.09300	U	0.00450	U	0.39	U
MW-11	4/1/2002	0.100	U	0.1	U	0.1	U	0.1	U	NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		93		NM		NM		NM		NM		NM	
	4/16/2008	0.010	U	0.024	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	0.51	U
	7/14/2011	0.050	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00714	U	0.00735	U	0.00714	U	0.01310	U	0.0104	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	0.0051	U
	3/25/2014	0.003	U	0.027		0.00133	U	0.00171	U	0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.001510	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/3/2014	0.0101	U	0.0181	J	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/2/2015	0.0101	UK	0.0108	JKF	0.002	UKF	0.0016	UK	0.00290	UK	0.0026	UK	0.00280	UK	0.00240	UK	0.00430	UK	0.0035	UK	0.00460	UK	0.00450	UK	0.00370	UK	0.00700	UKF	0.00490	UK	0.0288	UK	0.00860	UKF	0.00180	UK	0.00220	UK	0.00450	UK	0.423	UK
	9/14/2015	0.0034	U	0.015	J	0.0075	U	0.0036	U	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
	3/7/2016	0.0033	U	0.0089		0.0073	U	0.0035	U	0.00700	U	0.0071	U	0.00360	U	0.00340	U	0.00370	U	0.0050	U	0.00520	U	0.00410	U	0.00620	U	0.00500	U	0.00690	U	0.0096	U	0.00600	U	0.09300	U	0.09300	U	0.00450	U	0.39	U

Table 3-4: Groundwater Pesticides Analytical Results

Test 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	
Site-Specific RRS Values (ug/L)		0.5		1.6		0.1		2.6		NA		0.2		NA		NA		NA		8.4		NA		NA		12		NA		8.4		NA		NA		NA		NA		NA		NA	
Type RRS		4		4		4		4		NA		4		NA		NA		NA		4		NA		NA		4		NA		4		NA		NA		NA		NA		NA		NA	
Well ID	Sample Date	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag
MW-12	4/1/2002	**0.390**		**1.3**		**0.43**		**0.18**		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	6/1/2002	**0.400**		**1.4**		**0.3**		**0.1**		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/15/2008	**0.034**		**0.44**		**0.022**	J	**0.024**	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	0.51	U
	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	0.5	U	0.1	U	0.05	U	0.05	U	0.1	U	5	U
	4/5/2012	**0.017**	J	**0.750**		**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	**0.710**		**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	0.002	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	**0.015**	J	**0.847**		0.002	U	**0.00783**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.077	U	**0.601**		0.075	U	0.0729	U	0.13300	U	0.106	U	0.08650	U	0.08230	U	0.00469	U	0.0844	U	0.11800	U	0.09380	U	0.08650	U	0.10100	U	0.11700	U	0.109	U	0.08440	U	0.07290	U	0.08440	U	0.07500	U	0.0521	U
	3/26/2014	**0.010**		**0.539**		**0.00532**		**0.0138**		0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/2/2014	**0.0227**	J	**0.660**		**0.0093**	J	**0.0107**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/4/2015	0.0101	U	**0.086**	F	0.002	UF	**0.0033**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/16/2015	**0.011**	J	**0.57**		0.0075	U	**0.0062**	J	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
	3/7/2016	**0.0063**	JP	**0.47**		0.0074	U	0.0036		0.0070	U	0.0071	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00620	U	0.00510	U	0.00690	U	0.0097	U	0.0060	U	0.0940	U	0.09400	U	0.00460	U	0.40	U
MW-13	4/1/2002	**0.260**		**8**		**0.6**		**0.16**		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	6/1/2002	**0.400**		**11**		**1.4**		**0.5**		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/14/2008	**0.059**		**9**		**0.12**		**0.045**	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	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.5	U
	8/4/2009	**0.120**	J	**11**		**0.63**	J	1.01	U	1.01	U	1.01	U	1.01	U	1.01	U	2.02	U	2.02	U	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	1.01000	U	2.02	U	101	U
	3/27/2013	0.002	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	**0.052**		**6.36**	D	**0.0849**		**0.0307**	J	**0.454**		0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	
	3/26/2014	**0.022**		**4**		**0.032**		**0.0571**		0.0107	U	0.00627	U	0.00276	U	0.00193	U	0.00290	U	0.0116	U	0.00280	U	0.00193	U	0.00579	U	0.00224	U	0.06670	U	0.00343	U	0.00661	U	0.00941	U	0.00633	U	0.00274	U	0.148	U
	9/2/2014	**0.0319**	J	**3.87**	D	**0.0782**		**0.0517**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/5/2015	**0.0206**	J	**3.29**	DF	**0.101**	F	**0.0507**		0.00290	U	0.0026	U	0.00280	U	0.00430	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/16/2015	**0.061**		**3.8**		0.0075	U	**0.049**	J P	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
	3/7/2016	**0.028**	J	**4.5**		**0.0380**	J P	**0.022**	J P	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.02200	U	0.09500	U	0.00460	U	0.40	U
MW-14	4/10/2003	**0.200**		**0.1**		**0.1**	U	0.1	U	0.1	U	0.1	U	0.1	U	0.5	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	NM		NM		NM		2.0	U
	4/14/2008	0.010	U	**0.18**		**0.004**	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	0.51	U
	8/4/2009	0.051	U	**0.028**	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	0.102	U	0.102	U	0.102	U	0.102	U	0.510	U	0.102	U	0.051	U	0.051	U	0.102	U	5.10	U
	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	5.10	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.076	U	0.0718	U	0.0738	U	0.0718	U	0.13100	U	0.105	U	0.08510	U	0.08100	U	0.00462	U	0.0831	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
	3/25/2014	0.003	U	**0.243**		0.00134	U	**0.00702**		0.00562	U	0.00329	U	0.00145	U	0.00101	U	0.00153	U	0.0061	U	0.00147	U	0.00179	U	0.00304	U	0.00117	U	0.03500	U	0.0018	U	0.00347	U	0.00494	U	0.00333	U	0.00144	U	0.0777	U
	9/4/2014	0.0101	U	0.311		0.002	U	**0.0025**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/4/2015	0.0101	U	**0.179**	F	**0.0026**	J F	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/16/2015	**0.0070**	J	**0.39**		0.0074	U	0.0036	U	0.00700	U	0.0071	U	0.00370	U	0.00350	U	0.00370	U	0.0050	U	0.00520	U	0.00410	U	0.00620	U	0.00500	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00450	U	0.39	U
	3/7/2016	0.0034	U	**0.13**		0.0075	U	0.0036	U	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
MW-15	4/10/2003	**6.800**		**1.1**		**0.7**		**1.3**		0.1	U	0.1	U	0.1	U	0.5	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	NM		NM		NM		2.0	U
	4/16/2008	**0.058**		**0.37**		**0.007**	J	**0.042**	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	0.51	U
	8/5/2009	**0.103**		**0.565**		**0.01**	J	**0.067**		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	0.051	U	0.051	U	0.101	U	5.05	U
	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	**0.080**		**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	DRY
	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	**0.057**		**0.221**		0.002	U	**0.0245**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	DRY
	12/3/2013	DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY	
	3/26/2014	**0.041**		**0.317**		0.00135	U	**0.0458**		0.00568	U	0.00333	U	0.00147	U	0.00102	U	0.00154	U	0.00616	U	0.00149	U	0.00181	U	0.00307	U	0.00119	U	0.03540	U	0.00182	U	0.00351	U	0.00499	U	0.00336	U	0.00146	U	0.0785	U
	9/5/2014	**0.139**		**0.587**		**0.0174**	J	**0.0865**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/4/2015	**0.0496**	J	**0.262**	F	0.00778	J F	**0.0339**	J	0.00293	U	0.0505	U	0.00283	U	0.00242	U	0.00434	U	0.00354	U	0.00465	U	0.00455	U	0.00374	U	0.00707	UF	0.00495	U	0.0291	U	0.00869	U	0.00182	U	0.00222	U	0.00455	U	0.428	U
	9/15/2015	**0.078**		**0.43**		**0.0078**	J P	**0.040**	J	0.00700	U	0.0071	U	0.00360	U	0.00340	U	0.00370	U	0.005	U	0.00520	U	0.00410	U	0.00620	U	0.00500	U	0.00690	U	0.0096	U	0.00600	U	0.09300	U	0.09300	U	0.00450	U	0.39	U
	3/7/2016	**0.110**		**0.41**		**0.0130**	J P	**0.065**		0.00690	U	0.0070	U	0.00360	U	0.00340	U	0.00370	U	0.005	U	0.00520	U	0.00410	U	0.00620	U	0.00500	U	0.00680	U	0.0096	U	0.00600	U	0.09300	U	0.09300	U	0.00450	U	0.39	U
MW-16	4/10/2003	**11.400**		**0.9**		**0.9**		**2.3**		0.1	U	0.1	U	0.1	U	0.5	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	NM		NM		NM		2.0	U
	4/16/2008	0.010	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	0.051	U	0.051	U	0.51	U
	8/5/2009	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.101	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
	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.076	U	0.0235	U	0.0133	U	0.0489	U	0.05560	U	0.0326	U	0.01440	U	0.01000	U	0.01510	U	0.0604	U	0.01460	U	0.01770	U	0.03010	U	0.01160	U	0.34700	U	0.0178	U	0.03440	U	0.04890	U	0.03290	U	0.01430	U	0.769	U
	3/26/2014	0.031	U	0.0235	U	0.0133	U	0.0489	U	0.05560	U	0.0326	U	0.01440	U	0.01000	U	0.01510	U	0.0604	U	0.01460	U	0.01770	U	0.03010	U	0.01160	U	0.34700	U	0.0178	U	0.03440	U	0.04890	U	0.03290	U	0.01430	U	0.769	U
	9/3/2014	0.0101	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/3/2015	0.0100	U	0.00228	UF	0.00198	UF	0.00158	U	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	UF	0.00257	U	0.0285	U	0.00851	UF	0.00178	U	0.00218	U	0.00446	U	0.419	U
	9/16/2015	0.0034	U	0.0091	U	0.0075	U	0.0036	U	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
	3/7/2016	0.0034	U	0.0091	U	0.0075	U	0.0036	U	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
MW-17	4/16/2008	0.010	U	**0.25**		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	0.051	U	0.51	U
	8/4/2009	**0.017**	J	**0.37**		**0.36**		**0.011**	J	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
	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	**0.010**	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	0.002	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	0.002	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	0.010	U	**0.39**		**0.0162**	J	**0.00748**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.077	U	**0.264**		0.0746	U	0.0725	U	0.13300	U	0.106	U	0.08600	U	0.08190	U	0.00466	U	0.0839	U	0.11700	U	0.09330	U	0.08600	U	0.10100	U	0.11600	U	0.109	U	0.08390	U	0.07250	U	0.08390	U	0.07460	U	0.0518	U
	3/27/2014	0.031	U	**0.159**		0.0133	U	0.0171	U	0.05560	U	0.0326	U	0.01440	U	0.01000	U	0.01510	U	0.0604	U	0.01460	U	0.01770	U	0.03010	U	0.01160	U	0.34700	U	0.0178	U	0.03440	U	0.04890	U	0.03290	U	0.01430	U	0.769	U
	9/2/2014	0.010	U	**0.218**		**0.0105**	J	**0.00287**	J	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/3/2015	0.010	U	**0.357**	F	**0.0849**	F	**0.006**	J	0.00290	U	0.0026	U	0.00280	U	0.00430	U	0.00430	U	0.0035	U	0.00446	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/14/2015	0.0034	U	**0.18**		**0.0074**	J P	0.0036	U	0.00700	U	0.0071	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00690	U	0.0097	U	0.00610	U	0.09400	U	0.09400	U	0.00460	U	0.40	U
	3/7/2016	**0.0054**	J P	**0.24**		**0.012**	J P	**0.0053**	J	0.00710	U	0.0071	U	0.00370	U	0.00350	U	0.00380	U	0.0051

Table 3-4: Groundwater Pesticides Analytical Results

Test 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	
Site-Specific RRS Values (ug/L)		0.5		1.6		0.1		2.6		NA		0.2		NA		NA		NA		8.4		NA		NA		12		NA		8.4		NA		NA		NA		NA		NA		NA	
Type RRS		4		4		4		4		NA		4		NA		NA		NA		4		NA		NA		4		NA		4		NA		NA		NA		NA		NA		NA	
Well ID	Sample Date	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag
MW-18	8/6/2009	0.051	U	**0.375**		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	0.051	U	0.051	U	0.101	U	5.05	U
	7/15/2011	0.050	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	**0.025**	J	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
	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	0.002	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	0.010	U	**0.409**	J	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	**0.00680**	J	0.0035	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	0.076	U	**0.463**		0.0742	U	0.0722	U	0.13200	U	0.105	U	0.08560	U	0.08140	U	0.00464	U	0.0835	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
	3/26/2014	0.030	U	**0.356**		0.0127	U	0.0164	U	0.05350	U	0.0313	U	0.01380	U	0.00963	U	0.01450	U	0.0581	U	0.01400	U	0.01700	U	0.02890	U	0.01120	U	0.33300	U	0.0171	U	0.03310	U	0.04700	U	0.48100	U	0.01370	U	0.74	U
	9/4/2014	0.010	U	**0.102**		0.00198	U	**0.00327**	J	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.004260	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	UX	0.00218	U	0.00446	U	0.419	U
	3/4/2015	0.010	U	**0.111**	F	0.00198	U	0.00158	U	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.004260	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	UF	0.00485	U	0.0285	U	0.00851	UF	0.00178	U	0.00218	U	0.00446	U	0.419	U
	9/15/2015	0.0034	U	**0.19**		0.0074	U	0.0036	U	0.00700	U	0.0071	U	0.00370	U	0.00350	U	0.003800	U	0.005	U	0.00520	U	0.00420	U	0.00620	U	0.00500	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00460	U	0.40	U
	3/7/2016	0.0034	U	**0.18**		0.0075	U	0.0036	U	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.003800	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
MW-19	8/6/2009	**0.009**	J	**0.113**		0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	**0.012**	J	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
	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.076	U	0.0718	U	0.0738	U	0.0718	U	0.13100	U	0.105	U	0.08510	U	0.08100	U	0.00462	U	0.0831	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
	3/27/2014	0.003	U	**0.074**		0.0013	U	**0.0109**		0.00545	U	0.0032	U	0.00141	U	0.00098	U	0.00148	U	0.00592	U	0.00143	U	0.00174	U	0.00295	U	0.00114	U	0.03400	U	0.00175	U	0.00337	U	0.00480	U	0.00323	U	0.00140	U	0.0754	U
	9/4/2014	0.010	U	**0.0762**		**0.00515**	J	**0.00891**	J	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.004260	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	..00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/4/2015	0.010	U	**0.0288**	JF	**0.0175**	JF	0.00784	J	0.00291	U	0.00261	U	0.00281	U	0.00241	U	0.004320	U	0.00352	U	0.00462	U	0.00452	U	0.00372	U	0.00704	UF	0.00492	U	0.0289	U	0.00864	UF	0.00181	U	0.00221	U	0.00452	U	0.425	U
	9/15/2015	0.0034	U	**0.010**	J P	0.0075	U	0.0036	U	0.00710	U	0.0072	U	0.00370	F1	0.00350	U	0.003800	F2	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
	3/7/2016	0.0034	U	**0.058**		0.0075	U	0.0036	U	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.003800	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
MW-20	8/6/2009	**2.500**	U	**25.7**		**2.5**	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	5.00	U	5	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00	U	25	U	5.00	U	2.5	U	2.5	U	5.00	U	250	U
	7/12/2011	**0.460**	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	0.005	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	0.010	U	**2.21**	D	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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**		**0.148**	U	0.144	U	0.26400	U	0.21	U	0.17100	U	0.16300	U	**0.01880**	J	0.167	U	0.23300	U	0.18600	U	0.17100	U	0.20000	U	0.23100	U	0.216	U	0.16700	U	0.14400	U	0.16700	U	0.14800	U	0.103	U
	3/27/2014	0.031	U	**2.64**		**0.0229**		0.0169	U	0.05510	U	0.0323	U	0.01420	U	0.00991	U	0.01500	U	0.0598	U	0.01440	U	0.01750	U	0.02980	U	0.01150	U	0.34300	U	0.0176	U	0.03410	U	0.04840	U	0.03260	U	0.01410	U	0.762	U
	9/3/2014	**0.0803**		**12.4**	D	**0.469**		**0.074**		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.004260	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/5/2015	**0.0106**	J	**4.71**	DF	**0.0521**	F	**0.0171**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/17/2015	**0.11**		**13**		**0.98**		**0.034**	J P	0.00700	U	0.0071	U	0.00360	U	0.00350	U	0.003700	U	0.005	U	0.00520	U	0.00410	U	0.00620	U	**0.0092**	J P	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	**0.012**	J	0.39	U
	3/7/2016	**0.012**	J	**1.3**		**0.018**	J	0.0036	U	0.00710	U	0.0071	U	**0.00810**	J P	0.00350	U	0.003800	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.0051	U	0.00700	U	0.0097	U	0.00610	U	0.94000	U	0.09400	U	0.0046	U	0.40	U
MW-21	8/6/2009	**0.576**		**7.46**		**0.5**	U	**0.35**	J	0.5	U	0.5	U	0.5	U	0.5	U	1.0	U	1	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	1.00	U	0.5	U	0.5	U	1.00	U	50	U
	7/12/2011	**0.210**	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	**0.130**		**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	0.002	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	0.002	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	0.010	U	**0.286**		0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.076	U	**2.53**		0.0742	U	0.0722	U	0.13200	U	0.105	U	0.08560	U	0.08140	U	0.00464	U	0.0835	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
	3/27/2014	0.031	U	**0.856**		0.0133	U	0.0171	U	0.05560	U	0.0326	U	0.01440	U	0.01000	U	0.01510	U	0.0604	U	0.01460	U	0.01770	U	0.03010	U	0.01160	U	0.34700	U	0.0178	U	0.03440	U	0.04890	U	0.03290	U	0.01430	U	0.769	U
	9/5/2014	**0.359**		**5.52**	D	**0.574**		**0.280**		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/5/2015	**0.081**		**3.44**	DF	**0.283**	F	**0.088**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	**0.02090**	J	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/17/2015	0.0034	U	**1.8**		0.0074	U	**0.0047**	J P	0.00700	U	0.0071	U	0.00370	U	0.00350	U	0.00380	U	0.005	U	0.00520	U	**0.013**	J	0.00620	U	0.00500	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00450	U	0.40	U
	3/7/2016	0.0034	U	**1.7**		**0.01**	J	0.0036	U	0.00710	U	0.0072	U	**0.00620**	J P	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.0042	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
MW-22	4/5/2012	**1.520**	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	5.05	U	25.3	U	5.05	U	5.05	U	2.53	U	5.05	U	253	U
	11/20/2012	**1.300**	*	**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	0.0098	U	0.0049	U	0.0049	U	0.0098	U	**3.7**	
	3/27/2013	**1.090**		**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	**1.100**	D	**33.7**	DX	**0.725**		**0.382**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	**0.0521**	J	0.0035	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**		**0.489**		0.2610	U	0.208	U	0.1690	U	0.1610	U	**0.03040**	J	0.165	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
	3/27/2014	**0.284**		**14.3**		**0.212**		**0.166**		0.0535	U	0.0313	U	0.0138	U	0.0096	U	0.01450	U	0.0581	U	0.0140	U	0.0170	U	0.0289	U	0.0112	U	0.3330	U	0.0171	U	0.0331	U	0.0470	U	0.0317	U	0.0137	U	0.7400	
	9/5/2014*[4]	**1.01**	D	**37.098**	D	**22.4**	D	**0.365**		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/6/2015	**0.48**		**21.6**	DF	**9.53**	DF	**0.204**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/17/2015	**0.58**		**32**		**4.5**		**0.28**	F1	0.00660	U	0.0067	U	**0.021**	J P	0.00330	U	**0.048**	P	0.0048	U	0.00490	F1	0.00390	F1	0.00590	U	0.00480	U	0.00650	F1	0.0091	F1	0.00570	U	0.08900	U	0.08900	U	**0.056**		**4.7**	
	3/7/2016	**0.61**		**19**		**1.9**	J	**0.35**		0.00700	U	0.0071	U	0.0037	U	0.00350	U	0.0038	U	0.0051	U	0.00530	U	0.00420	U	0.00620	U	**0.02800**	J	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	**0.041**	J	0.40	U
MW-23	9/5/2014	**0.0227**	J	**5.17**	D	**0.0174**	J	**0.0517**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/5/2015	**0.0189**	J	**4.63**	DF	**0.0316**	JF	**0.0528**		0.00290	U	0.0026	U	0.00290	U	0.00430	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00460	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/17/2015	**0.012**	J	**4.5**		**0.011**	J	**0.051**	P	0.00700	U	0.0071	U	0.00370	U	0.00350	U	0.00380	U	0.005	U	0.00520	U	0.00410	U	0.00620	U	0.00500	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00450	U	0.40	U
	3/7/2016	**0.017**	J	**5.1**		**0.011**	J P	**0.048**	J	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
MW-24	3/3/2015	0.0101	U	**0.0041**	JF	0.002	UF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/14/2015	0.0034	U	**0.009**	U	0.0074	U	0.0036	U	0.00700	U	0.0071	U	0.00370	U	0.00350	U	0.00380	U	0.005	U	0.00520	U	0.00410	U	0.00620	U	0.00500	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00450	U	0.39	U
	3/7/2016	0.0034	U	0.0091	U	0.0075	U	0.0036	U	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U

Sources: Analytical results from March 2013 to March 2016 are from samples directly collected by EIC. Historical data prior to March 2013 from CH2MHill 2008, 2009, and 2012 Groundwater Reports and Law Engineering 2001-2003 Compliance Status Reports and Addendums

Notes:

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 limit.
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 laboratory QC deficiency was observed in quality control review of data
F = Relative percent difference exceeded lab control limits
P = The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
F1 = MS and/or MSD recovery is outside acceptance limits
F2= MS/MSD RPD exceeds control limits

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 correlation.
*[4] = Result for beta-BHC was adjusted based on tubing rinsate sample, see Xenco lab report number 492804

Table 3-5: MNA Groundwater Analytical Results

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	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
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	NM		NM		NM		1.88		1.50		45.4		19.8	D	75.7	D

Table 3-5: MNA Groundwater Analytical Results

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	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
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**
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**	

Table 3-5: MNA Groundwater Analytical Results

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	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
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**		**2.37**		**2.61**		**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**
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	
	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 2012.

Notes:

Samples delivered to laboratory within holding time.

* 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 limit.

1.50 = Result above detection limit.

NM = Contaminant Not Measured.

NL = Well not located

NS = Well not sampled

DRY = Well was dry and therefore could not be sampled

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

Table 3-6: Mixing Model Initial Groundwater Concentrations

Constituents of Concern	Leading Edge Concentration C_{gw1} (µg/L)	Maximum Concentration Recorded During the March 2016 Sampling Event C_{gw2} (µg/L)	Maximum Concentration Ever Recorded at the Site C_{gw3} (µg/L)
Alpha-BHC	1.70E-02	7.70E-01	2.05E+01
Beta-BHC	5.10E+00	1.90E+01	3.74E+01
Delta-BHC	1.10E-02	1.90E+00	2.24E+01
Gamma-BHC (Lindane)	4.80E-02	3.50E-01	2.66E+00

Notes:

Leading edge is assumed to be the concentration at MW-23 derived from the EIC March 2016 groundwater sampling results, recorded in the Seventh VIRP Semi-annual Report, Table 3-3

Maximum Site Concentration in March 2016 is the highest observed concentration for each constituent at the site during the March 2016 groundwater sampling event, as recorded in the Seventh VIRP Semi-annual Report, Table 3-3

Maximum Concentration Ever Recorded is the maximum concentration of each constituent recorded at any well for any event as reported in the Seventh VIRP Semi-annual Report, Table 3-3

Table 3-7: Modeled Downstream River Concentrations Under Average River Flow Conditons Compared to Water Quality Standards

Constituents of Concern	Georgia Instream Water Quality Standards (µg/L)*	National Primary Drinking Water Standards (µg/L)*[2]	Estimated Downstream River Concentrations		
			Utilizing Leading Edge C_{gw1}, C_{Rd1} (µg/L)	Utilizing Event Maximum C_{gw2}, C_{Rd2} (µg/L)	Utilizing Maximum Recorded C_{gw3}, C_{Rd3} (µg/L)
Alpha-BHC	4.90E-03	NA	1.02E-07	4.64E-06	1.24E-04
Beta-BHC	1.70E-02	NA	3.07E-05	1.15E-04	2.25E-04
Delta-BHC	NA	NA	6.63E-08	1.15E-05	1.35E-04
Gamma-BHC	1.80E+00	2.00E-01	2.89E-07	2.11E-06	1.60E-05

Notes:

Downstream river concentrations are based on the mixing formula below. The formula assumes that the groundwater flow discharging to the river from the entire length of the site is uniformly contaminated at each of the respective groundwater concentrations (Cgw).

NA = not applicable

$$C_{Rd} = C_{gw} * \left(\frac{Q_{gw}}{Q_{gw} + Q_{Ru}} \right) = C_{gw} * DF_{avg} \text{ , where } DF_{avg} = 6.03 * 10^{-6}$$

* EPD 2013. *Rules and Regulations for Water Quality Control, Chapter 391-3-6-.03*. Atlanta, Georgia. August 27, 2013. Standards considered under average river flow conditions per Chapter 4.e.iv

*[2] EPA, 2009. National Primary Drinking Water Regulations. Washington, DC. May 2009

Table 3-8: Modeled Downstream River Concentrations Under 1Q10 River Flow Conditions Compared to Water Quality Standards

Constituents of Concern	Georgia Instream Water Quality Standards (µg/L)*	National Primary Drinking Water Standards (µg/L)*[2]	Estimated Downstream River Concentrations		
			Utilizing Leading Edge C_{gw1}, C_{Rd1} (µg/L)	Utilizing Event Maximum C_{gw2}, C_{Rd2} (µg/L)	Utilizing Maximum Recorded C_{gw3}, C_{Rd3} (µg/L)
Gamma-BHC	9.50E-01	2.00E-01	1.97E-06	1.44E-05	1.09E-04

Notes:

Downstream river concentrations are based on the mixing formula below. The formula assumes that the groundwater flow discharging to the river from the entire length of the site is uniformly contaminated at each of the respective groundwater concentrations (Cgw).

$$C_{Rd} = C_{gw} * \left(\frac{Q_{gw}}{Q_{gw} + Q_{Ru}} \right) = C_{gw} * DF_{1Q10}, where\ DF_{1Q10} = 4.10 * 10^{-5}$$

* EPD 2013. *Rules and Regulations for Water Quality Control, Chapter 391-3-6-.03*. Atlanta, Georgia. August 27, 2013. Standards considered under 1Q10 river flow conditions per Chapter 4.e.ii

*[2] EPA, 2009. National Primary Drinking Water Regulations. Washington, DC. May 2009

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

COMPLIANCE STATUS REPORT

FIGURES



Legend

- MONITORING WELL
- STILLING WELL
- MW-18 MONITORING WELL ID
- N.L. NOT LOCATED

SITE FEATURES

- BULKHEAD
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.
WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400

Feet

DESIGNED BY: A.G.	REVISIONS NO.	REVISIONS DATE	DATE: 4/17/2015
DRAWN BY: A.G.			SCALE: SEE BAR SCALE
CHECKED BY: A.S.			SHEET NO.: 1 OF 1
APPROVED BY: R.M.			

FIGURE 1-1: SITE MAP

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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



Legend

- MONITORING WELL
- STILLING WELL
- MW-18 MONITORING WELL ID
- N.L. NOT LOCATED
- CROSS SECTION TRACE LINES

SITE FEATURES

- BULKHEAD
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.
WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400

Feet

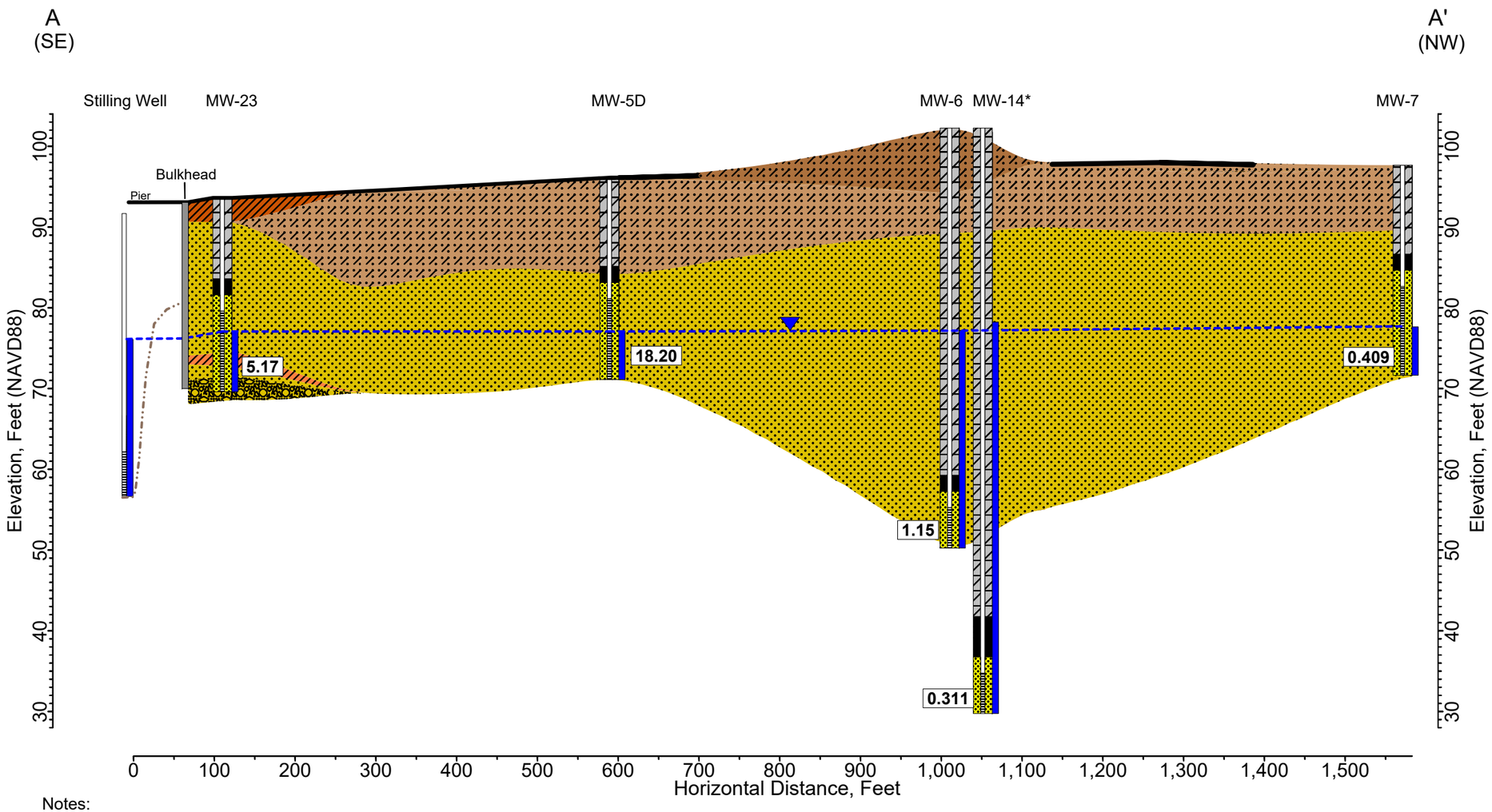
DESIGNED BY: A.G.	REVISIONS NO.	REVISIONS DATE	DATE: 6/22/2016
DRAWN BY: A.G.			SCALE: SEE BAR SCALE
CHECKED BY: A.S.			SHEET NO.: 1 OF 1
APPROVED BY: R.M.			

FIGURE 2-1: HYDROGEOLOGICAL CROSS-SECTIONS TRACE MAP

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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

Figure 2-2: A-A' (Southeast to Northwest) Hydrogeological Cross-Section, GPA, Bainbridge, GA



Legend

Lithology

- BACKFILL (SAND WITH CLAY)
- CLAY
- ENGINEERED BACKFILL (CLAY)
- SAND
- SAND WITH CLAY
- SAND WITH GRAVEL

Well Construction

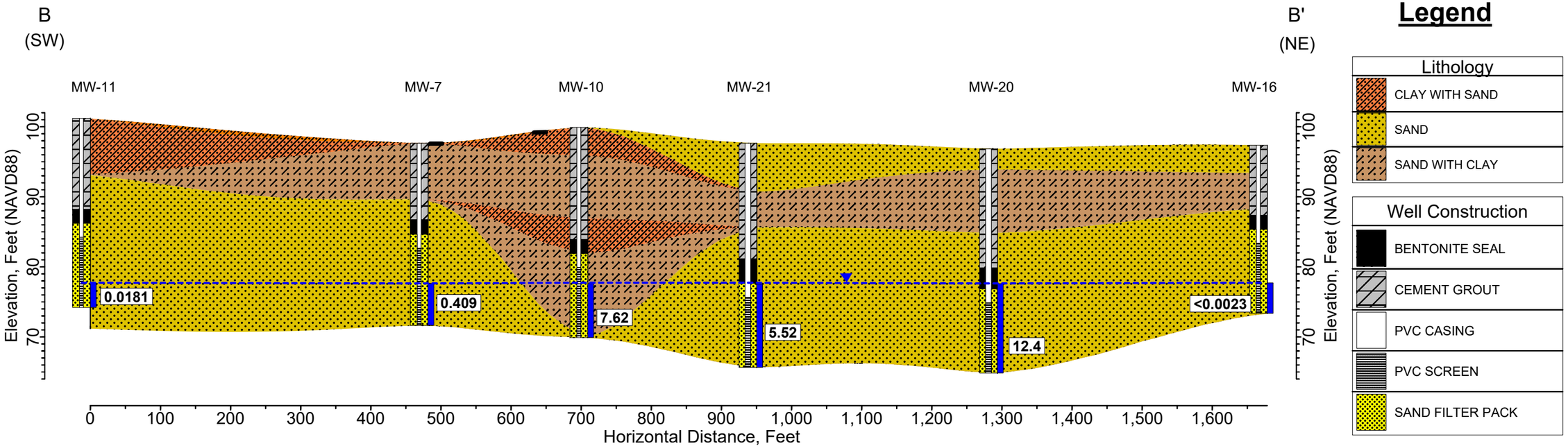
- BENTONITE SEAL
- CEMENT GROUT
- PVC CASING
- PVC SCREEN
- SAND FILTER PACK

- Estimated River Bottom/Bank
- Interpolated Water Surface (September 2014)
- Impermeable Surfaces
- Water Column (September 2014)
- Bulkhead
- 5.05 Beta-BHC Concentration September 2014 (ug/L)

Notes:
Hydrogeological cross section is based on lithological data logs and well construction diagrams prepared by various consultants for each monitoring well. Lithology was correlated utilizing Rockworks 2006 stratigraphy modeling software by Rockware. Bulkhead coordinates determined during EIC site survey, depth and approximate river bank elevation determined from Thomas and Hutton Engineers 1958 as-built drawing and 1956 Bulkhead and Pile Details, GPA reference 02-45-99-023 and 02-45-99-005. Bulkhead and well construction logs are horizontally exaggerated to show detail. All wells have a 2-inch diameter PVC casing.
*Lithology and groundwater level at MW-14 is not considered.

GEORGIA PORTS AUTHORITY BAINBRIDGE TERMINAL BAINBRIDGE GEORGIA	EIC	SEAL:	DESIGNED BY:	W.G.	DATE:	9/10/2014	FILE: 400007: 4.5
			DRAWN BY:	S.F.H	REVISION:	DATE:	SHEET NO.: 1 of 1
ENVIRONMENTAL INTERNATIONAL CORPORATION 161 KIMBALL BRIDGE ROAD ALPHARETTA, GEORGIA 30009			CHECKED BY:	A.S.			VERTICAL EXAGERATION = 10X
			APPROVED BY:	R.M.			

Figure 2-3: B-B' (Southwest to Northeast) Hydrogeological Cross-Section, GPA, Bainbridge, GA



Legend

Lithology
- CLAY WITH SAND
- SAND
- SAND WITH CLAY

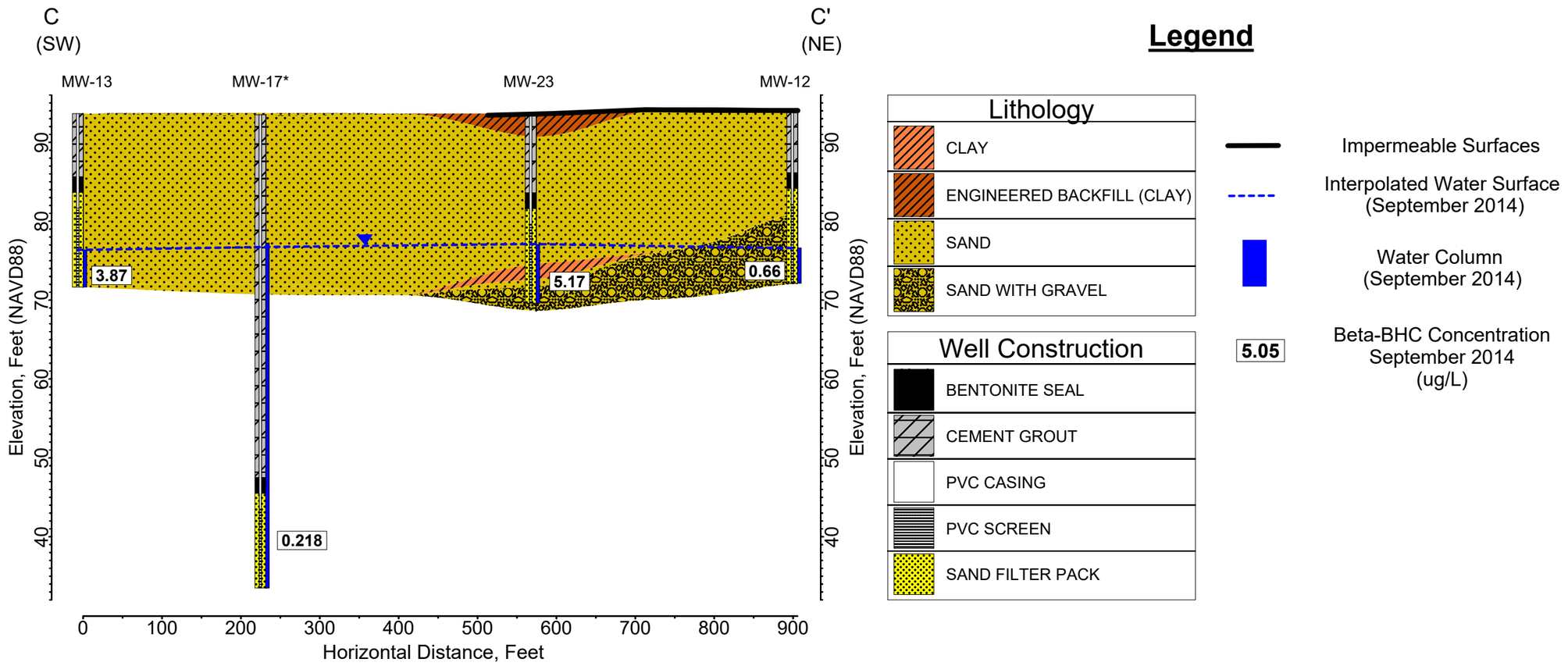
Well Construction
- BENTONITE SEAL
- CEMENT GROUT
- PVC CASING
- PVC SCREEN
- SAND FILTER PACK

- Impermeable Surfaces
- Interpolated Water Surface (September 2014)
- Water Column (September 2014)
- **5.05** Beta-BHC Concentration September 2014 (ug/L)

Notes:
Hydrogeological cross section is based on lithological data logs and well construction diagrams prepared by various consultants for each monitoring well. Lithology was correlated utilizing Rockworks 2006 stratigraphy modeling software by Rockware. Well construction logs are horizontally exaggerated to show detail. All wells have a 2-inch diameter PVC casing.

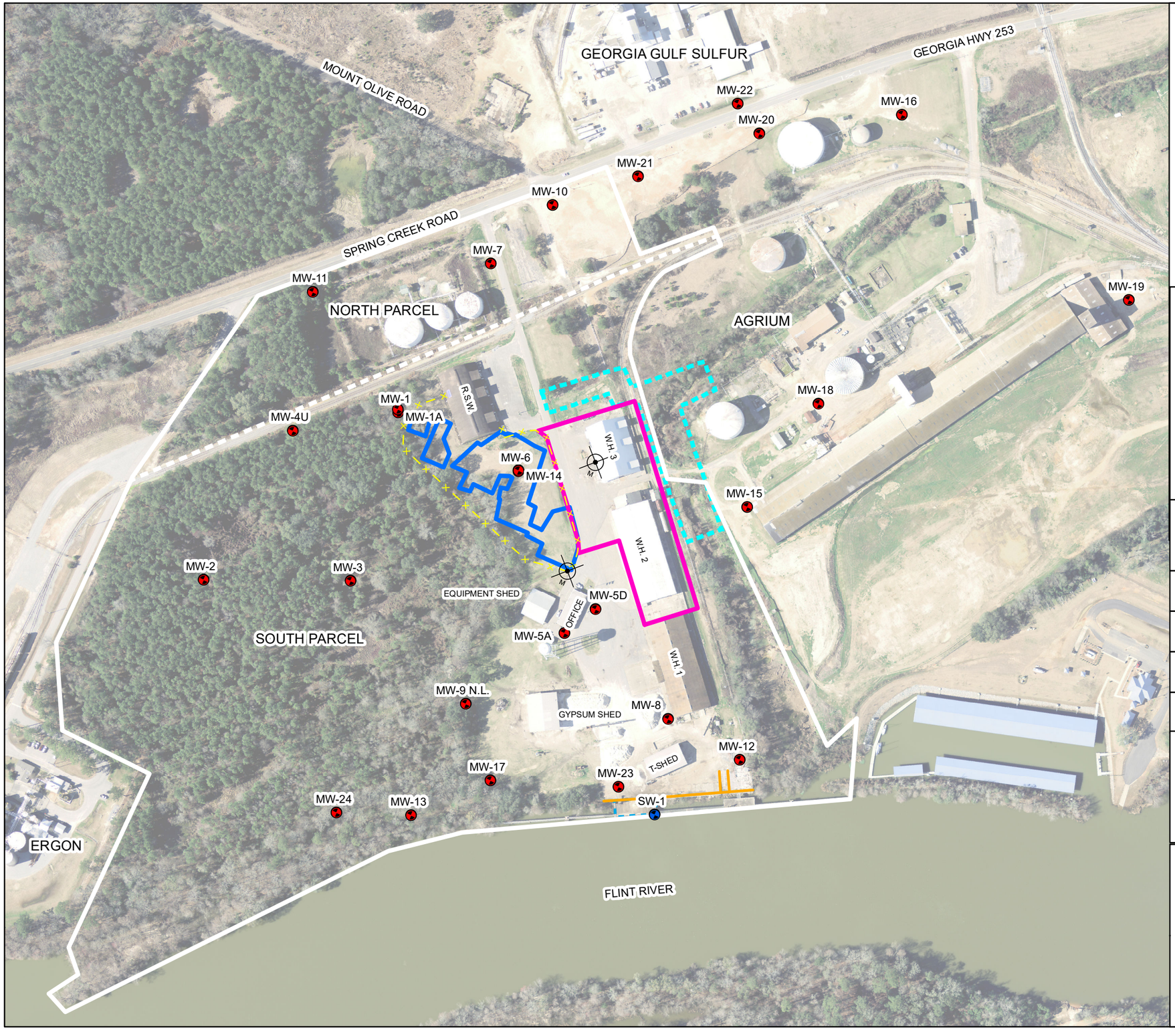
GEORGIA PORTS AUTHORITY BAINBRIDGE TERMINAL BAINBRIDGE GEORGIA	EIC	SEAL:	DESIGNED BY:	W.G.	DATE:	9/10/2014	FILE:	400007: 4.5
			DRAWN BY:	S.F.H	REVISION:	DATE:	SHEET NO.:	1 of 1
ENVIRONMENTAL INTERNATIONAL CORPORATION 161 KIMBALL BRIDGE ROAD ALPHARETTA, GEORGIA 30009			CHECKED BY:	A.S.			VERTICAL EXAGERATION = 10X	
			APPROVED BY:	R.M.				

Figure 2-4 C-C' (Southwest to Northeast) Hydrogeological Cross-Section, GPA, Bainbridge, GA



Notes:
Hydrogeological cross section is based on lithological data logs and well construction diagrams prepared by various consultants for each monitoring well. Lithology was correlated utilizing Rockworks 2006 stratigraphy modeling software by Rockware. Well construction logs are horizontally exaggerated to show detail. All wells have a 2-inch diameter PVC casing.
*Lithology and groundwater level at MW-17 is not considered.

GEORGIA PORTS AUTHORITY BAINBRIDGE TERMINAL BAINBRIDGE GEORGIA	EIC	SEAL:	DESIGNED BY:	W.G.	DATE:	9/10/2014	FILE:	400007: 4.5
			DRAWN BY:	S.F.H	REVISION:	DATE:	SHEET NO.:	1 of 1
ENVIRONMENTAL INTERNATIONAL CORPORATION 161 KIMBALL BRIDGE ROAD ALPHARETTA, GEORGIA 30009			CHECKED BY:	A.S.			VERTICAL EXAGERATION = 10X	
			APPROVED BY:	R.M.				



Legend

- MONITORING WELL
- STILLING WELL
- MW-18 MONITORING WELL ID
- N.L. NOT LOCATED

SITE FEATURES

- BULKHEAD
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER

AREAS OF CONCERN (AOC)

CURRENT AOC EXTENTS

- AOC-1 FENCE LINE
- AOC-1 BOUNDARY
- AOC-2 BOUNDARY
- FORMER AOC-3 BOUNDARY
- UNIFORM ENVIRONMENTAL COVENANT GRANITE MONUMENT

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED.

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY. WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE. GRANITE MONUMENT LOCATIONS AND AOC-2 BOUNDARY ARE PLOTTED FROM A SURVEY CONDUCTED BY MOCK SURVEYING INC. ON FEBRUARY 16, 2016.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400

Feet

DESIGNED BY: A.G.	REVISIONS NO.	REVISIONS DATE	DATE: 6/30/2016
DRAWN BY: A.G.			SCALE: SEE BAR SCALE
			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 2-5: AREAS OF CONCERN AND UEC MONUMENT INSTALLATIONS

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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



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
- 5 TOTAL CELL SAMPLE DEPTH (ft)
- AOC 1 BOUNDARY

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. SOIL SAMPLE GRID AND ANALYTICAL DATA PROVIDED BY CH2MHILL.

N

25 0 25 50 75

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 2–6: LOCATION OF SOIL BORINGS IN AOC–1

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

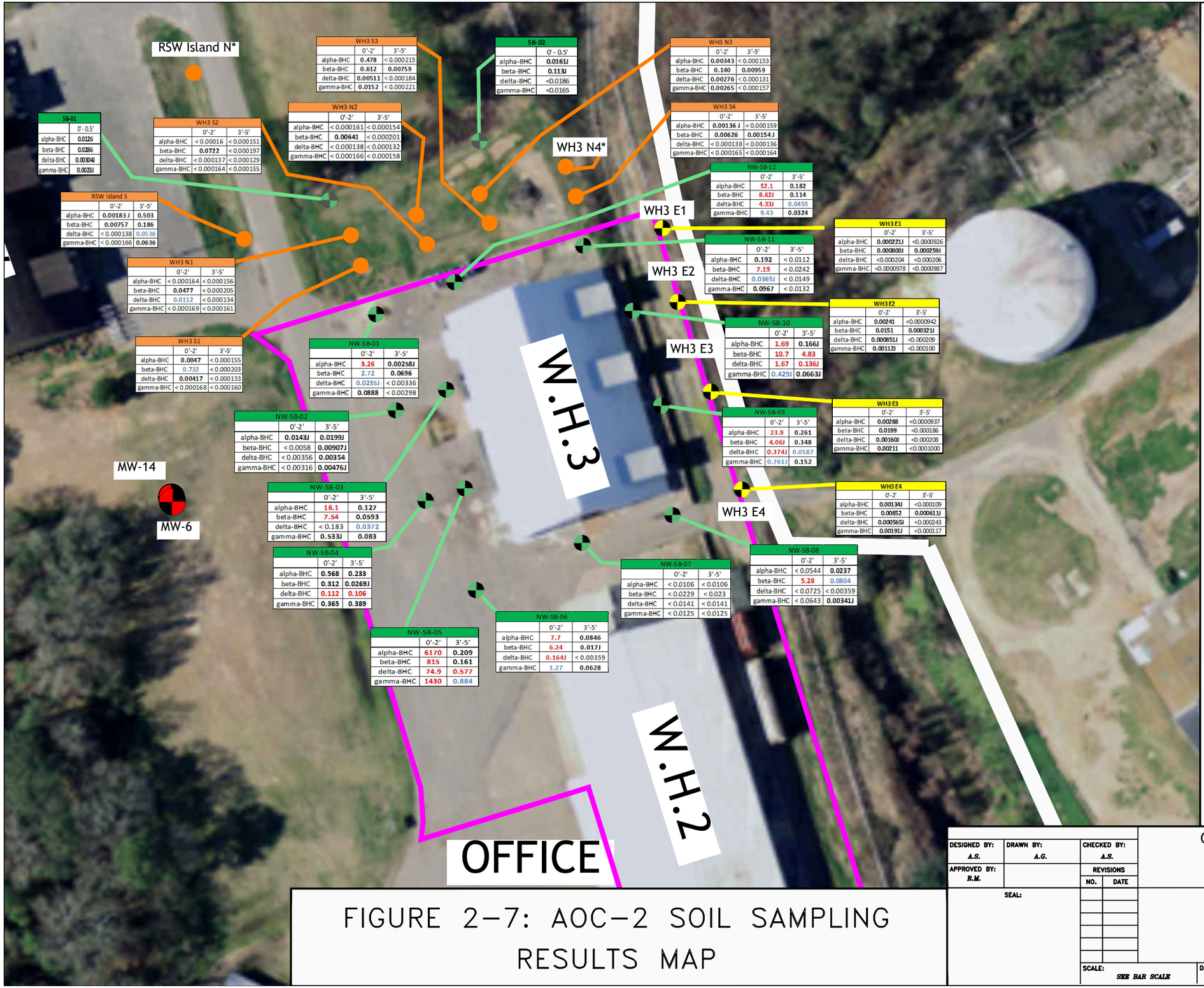
SEAL:

REVISIONS NO.	DATE
1	9/16/2013

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	12/23/2013	400007-4.3 – GPA BAINBRIDGE	



WH3 S3	0'-2'	3'-5'
alpha-BHC	**0.478**	< 0.000215
beta-BHC	**0.612**	**0.00759**
delta-BHC	**0.00511**	< 0.000184
gamma-BHC	**0.0152**	< 0.000221

SB-02	0' - 0.5'
alpha-BHC	**0.016J**
beta-BHC	**0.113J**
delta-BHC	<0.0186
gamma-BHC	<0.0165

WH3 N3	0'-2'	3'-5'
alpha-BHC	**0.00343**	< 0.000153
beta-BHC	**0.140**	**0.00959**
delta-BHC	**0.00276**	< 0.000131
gamma-BHC	**0.00265**	< 0.000157

WH3 N2	0'-2'	3'-5'
alpha-BHC	< 0.000161	< 0.000154
beta-BHC	**0.00641**	< 0.000201
delta-BHC	< 0.000138	< 0.000132
gamma-BHC	< 0.000166	< 0.000158

WH3 S2	0'-2'	3'-5'
alpha-BHC	< 0.00016	< 0.000151
beta-BHC	**0.0722**	< 0.000197
delta-BHC	< 0.000137	< 0.000129
gamma-BHC	< 0.000164	< 0.000155

SB-01	0' - 0.5'
alpha-BHC	**0.0126**
beta-BHC	**0.0286**
delta-BHC	**0.00304J**
gamma-BHC	**0.0023J**

WH3 S4	0'-2'	3'-5'
alpha-BHC	**0.00136 J**	< 0.000159
beta-BHC	**0.00626**	**0.00154 J**
delta-BHC	< 0.000138	< 0.000136
gamma-BHC	< 0.000165	< 0.000164

NW-SB-12	0'-2'	3'-5'
alpha-BHC	**52.1**	**0.182**
beta-BHC	**8.62J**	**0.114**
delta-BHC	**4.33J**	0.0455
gamma-BHC	9.43	**0.0324**

RSW Island S	0'-2'	3'-5'
alpha-BHC	**0.00183 J**	**0.503**
beta-BHC	**0.00757**	**0.186**
delta-BHC	< 0.000138	0.0536
gamma-BHC	< 0.000166	**0.0636**

WH3 E1	0'-2'	3'-5'
alpha-BHC	**0.00021J**	<0.0000926
beta-BHC	**0.00080J**	**0.00025J**
delta-BHC	<0.000204	<0.000206
gamma-BHC	<0.0000978	<0.0000987

NW-SB-11	0'-2'	3'-5'
alpha-BHC	**0.192**	< 0.0112
beta-BHC	**7.19**	< 0.0242
delta-BHC	0.0369J	< 0.0149
gamma-BHC	**0.0967**	< 0.0132

WH3 N1	0'-2'	3'-5'
alpha-BHC	< 0.000164	< 0.000156
beta-BHC	**0.0477**	< 0.000205
delta-BHC	0.0112	< 0.000134
gamma-BHC	< 0.000169	< 0.000161

WH3 E2	0'-2'	3'-5'
alpha-BHC	**0.00241**	<0.0000942
beta-BHC	**0.0151**	**0.00321J**
delta-BHC	**0.00851J**	<0.000209
gamma-BHC	**0.0112J**	<0.000100

NW-SB-10	0'-2'	3'-5'
alpha-BHC	**1.69**	**0.166J**
beta-BHC	**10.7**	**4.83**
delta-BHC	**1.67**	**0.136J**
gamma-BHC	0.429J	**0.0663J**

WH3 S1	0'-2'	3'-5'
alpha-BHC	**0.0047**	< 0.000155
beta-BHC	0.732	< 0.000203
delta-BHC	**0.00417**	< 0.000133
gamma-BHC	< 0.000168	< 0.000160

NW-SB-01	0'-2'	3'-5'
alpha-BHC	**3.26**	**0.00258J**
beta-BHC	2.72	**0.0696**
delta-BHC	0.0235J	< 0.00336
gamma-BHC	**0.0888**	< 0.00298

WH3 E3	0'-2'	3'-5'
alpha-BHC	**0.00288**	<0.0000937
beta-BHC	**0.0199**	<0.000186
delta-BHC	**0.00160J**	<0.000208
gamma-BHC	**0.00211**	<0.0001000

NW-SB-09	0'-2'	3'-5'
alpha-BHC	**23.9**	**0.261**
beta-BHC	**4.06J**	**0.348**
delta-BHC	**0.374J**	0.0587
gamma-BHC	0.761J	**0.152**

NW-SB-02	0'-2'	3'-5'
alpha-BHC	**0.0143J**	**0.0199J**
beta-BHC	< 0.0058	**0.00907J**
delta-BHC	< 0.00356	**0.00354**
gamma-BHC	< 0.00316	**0.00476J**

WH3 E4	0'-2'	3'-5'
alpha-BHC	**0.00134J**	<0.000109
beta-BHC	**0.00852**	**0.00061J**
delta-BHC	**0.000565J**	<0.000243
gamma-BHC	**0.00191J**	<0.000117

NW-SB-03	0'-2'	3'-5'
alpha-BHC	**16.1**	**0.127**
beta-BHC	**7.54**	**0.0593**
delta-BHC	< 0.183	0.0372
gamma-BHC	**0.533J**	**0.083**

NW-SB-08	0'-2'	3'-5'
alpha-BHC	< 0.0544	**0.0237**
beta-BHC	**5.28**	0.0804
delta-BHC	< 0.0725	< 0.00359
gamma-BHC	< 0.0643	**0.00341J**

NW-SB-04	0'-2'	3'-5'
alpha-BHC	**0.568**	**0.233**
beta-BHC	**0.312**	**0.0269J**
delta-BHC	**0.112**	**0.106**
gamma-BHC	**0.365**	**0.389**

NW-SB-07	0'-2'	3'-5'
alpha-BHC	< 0.0106	< 0.0106
beta-BHC	< 0.0229	< 0.023
delta-BHC	< 0.0141	< 0.0141
gamma-BHC	< 0.0125	< 0.0125

NW-SB-05	0'-2'	3'-5'
alpha-BHC	**6170**	**0.209**
beta-BHC	**815**	**0.161**
delta-BHC	**74.9**	**0.577**
gamma-BHC	**1430**	0.884

NW-SB-06	0'-2'	3'-5'
alpha-BHC	**7.7**	**0.0846**
beta-BHC	**6.24**	**0.017J**
delta-BHC	**0.164J**	< 0.00359
gamma-BHC	1.27	**0.0628**

LEGEND:

- GPA PROPERTY LINE
- R.S.W. ROCK SALT WAREHOUSE
- W.H.3 WAREHOUSE 3
- AOC–2 BOUNDARY
- EIC SOIL BORINGS, JUNE 2013
- PRE–VIRP SOIL BORINGS
- EIC SOIL BORINGS, DECEMBER 2014

NOTE: ALL CONCENTRATIONS REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg). VALUES IN BOLD INDICATE RESULTS ABOVE DETECTION LIMITS. ALL DECEMBER 2014 SOIL BORING LOCATIONS HAD SAMPLES TAKEN AT 0–2' and 3–5'.

* = SAMPLES NOT ANALYZED

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

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. Post–VIRP June 2013 sample locations based on survey by Donaldson Garret & Associates on 6/5/2013. December 2014 soil sample locations were based on December 2014 survey by DGA.

N

20 0 20 40 60 80

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 2–7: AOC–2 SOIL SAMPLING RESULTS MAP

DESIGNED BY:	DRAWN BY:	CHECKED BY:
A.S.	A.G.	A.S.
APPROVED BY:		REVISIONS
R.M.		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	6/14/16	400007–4.5 – GPA BAINBRIDGE	

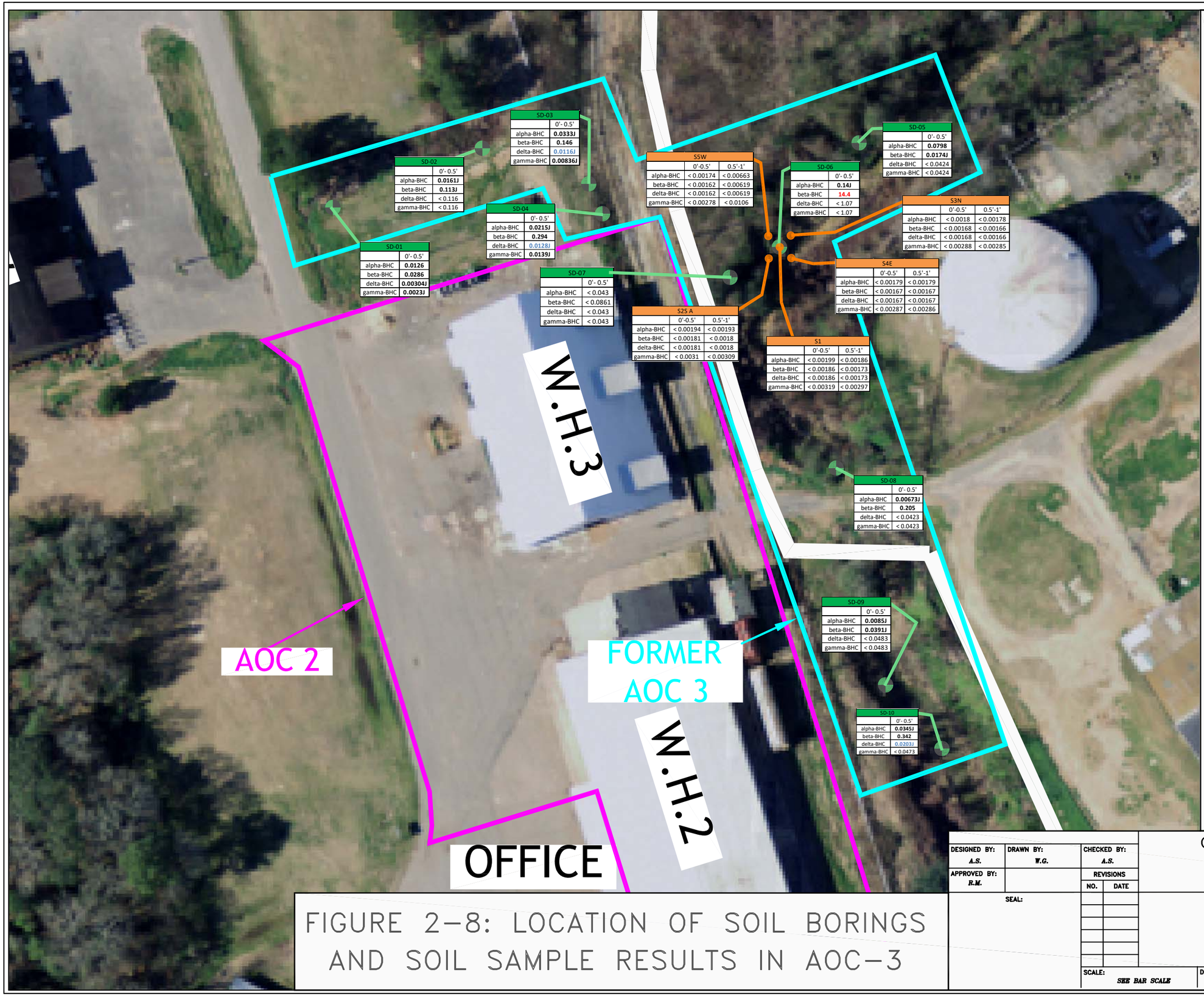


FIGURE 2–8: LOCATION OF SOIL BORINGS AND SOIL SAMPLE RESULTS IN AOC–3

LEGEND:

- GPA PROPERTY LINE
- R.S.W. ROCK SALT WAREHOUSE
- W.H.3 WAREHOUSE 3
- AOC–2
- AOC–3
- EIC SOIL BORINGS, JUNE 2013
- PRE–VIRP SOIL BORINGS

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

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. Post–VIRP June 2013 sample locations based on survey by Donaldson Garret & Associates on 6/5/2013.

N

20 0 20 40 60 80

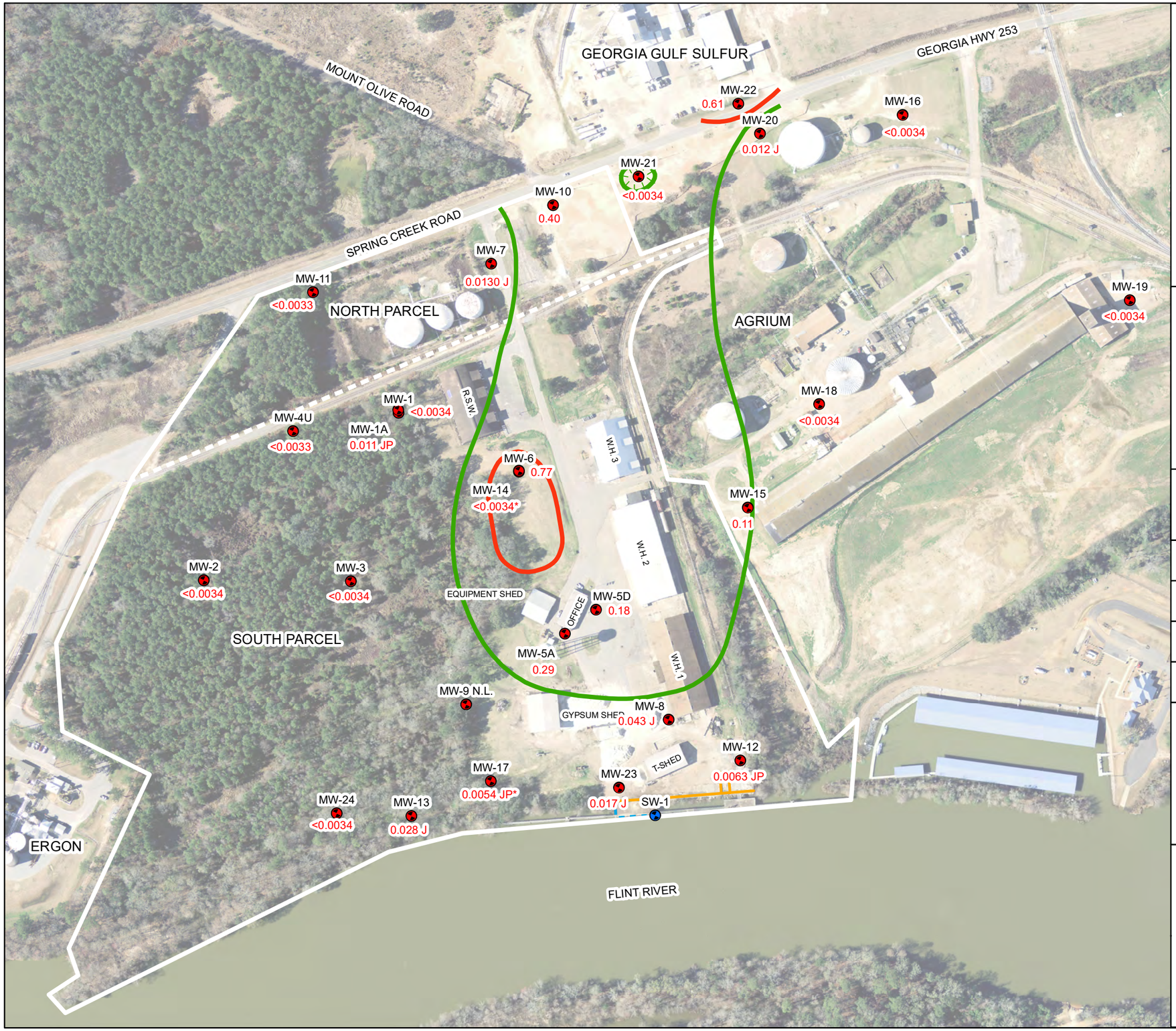
GRAPHICAL SCALE IN FEET
(APPROXIMATE)

DESIGNED BY: A.S.	DRAWN BY: W.G.	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	06/27/16	400007–4.2 – GPA BAINBRIDGE	



Legend

MONITORING WELL

STILLING WELL

MW-18 MONITORING WELL ID

N.L. NOT LOCATED

SITE FEATURES

BULKHEAD

NORTH AND SOUTH PARCEL DIVISION

BAINBRIDGE PARCEL LINES

PIER

ALPHA-BHC CONCENTRATIONS CONTOURS

DELINIATION CRITERION OF 0.1 µg/L

RRS TYPE 4 OF 0.5 µg/L

CONCENTRATIONS

<0.0034 CONCENTRATION IN µg/L

<0.0034* CONCENTRATION NOT CONSIDERED IN CONTOURS FOR DEEP WELLS (SCREENED BELOW 50 FT BGS)

J CONCENTRATION BELOW QUANTITATION LIMIT AND ABOVE DETECTION LIMIT

P THE %RPD BETWEEN THE PRIMARY CONFIRMATION COLUMN/DETECTOR IS >40%. THE LOWER VALUE HAS BEEN REPORTED

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY. WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400 Feet

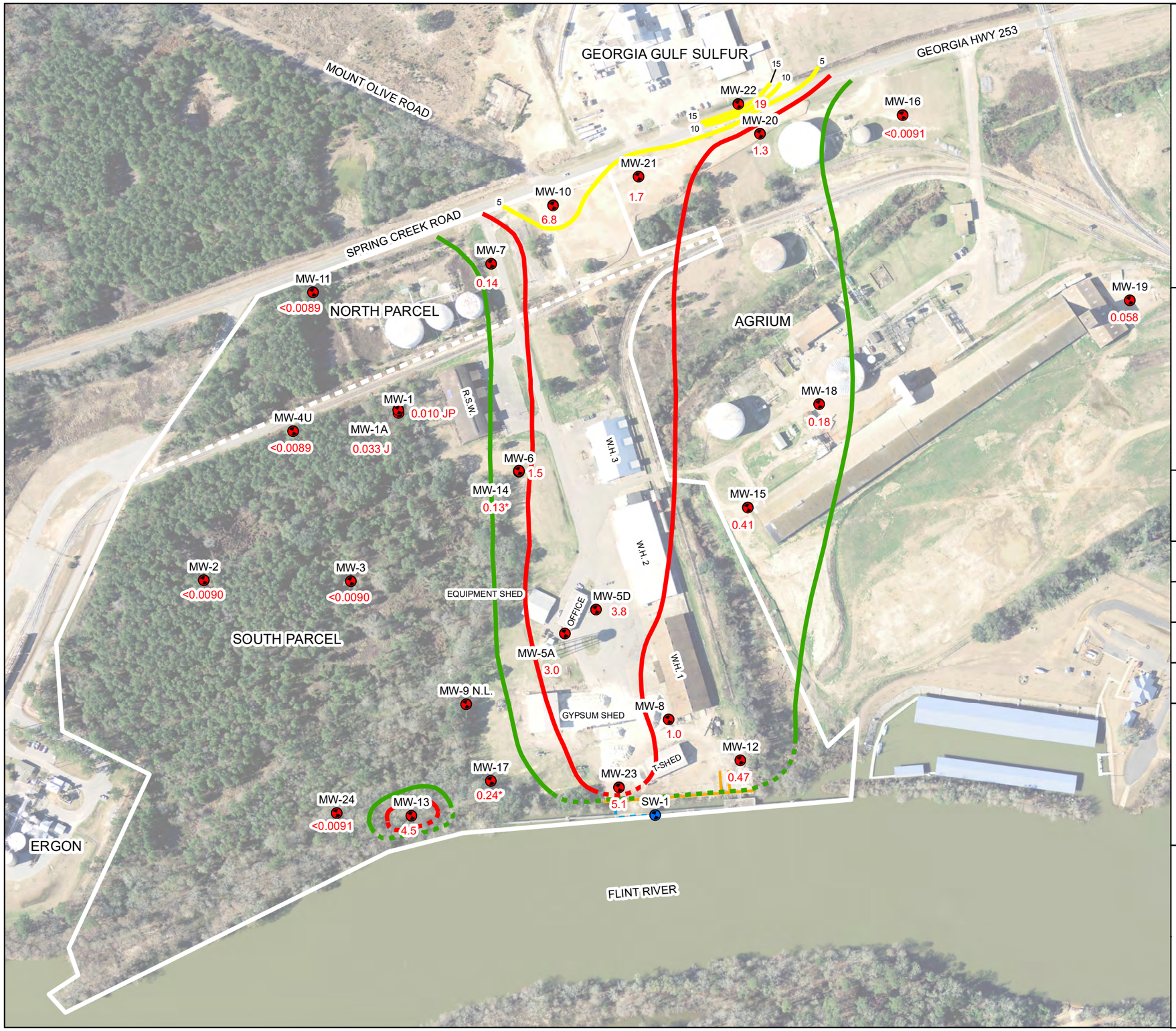
DESIGNED BY: A.G.	REVISIONS NO.	REVISIONS DATE	DATE: 4/28/2016
DRAWN BY: S.F.H.			SCALE: SEE BAR SCALE
CHECKED BY: A.S.			SHEET NO.: 1 OF 1
APPROVED BY: R.M.			

FIGURE 2-9: MARCH 2016 ALPHA-BHC ISOCONCENTRATION MAP

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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

FILE: 400007 - 4.5 - GPA BAINBRIDGE



Legend

MONITORING WELL

STILLING WELL

MW-18 MONITORING WELL ID

N.L. NOT LOCATED

SITE FEATURES

BULKHEAD

NORTH AND SOUTH PARCEL DIVISION

BAINBRIDGE PARCEL LINES

PIER

BETA-BHC CONCENTRATIONS

CONTOURS

DELINIATION CRITERION OF 0.1 µg/L

RRS TYPE 4 OF 1.6 µg/L

BETA BHC CONTOURS (5 µg/L INTERVAL)

CONCENTRATIONS

0.57 CONCENTRATION IN µg/L

0.24* CONCENTRATION NOT CONSIDERED IN CONTOURS FOR DEEP WELLS (SCREENED BELOW 50 FT BGS)

J CONCENTRATION BELOW QUANTITATION LIMIT AND ABOVE DETECTION LIMIT

P THE %RPD BETWEEN THE PRIMARY CONFIRMATION COLUMN/DETECTOR IS >40%. THE LOWER VALUE HAS BEEN REPORTED

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY. WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400

Feet

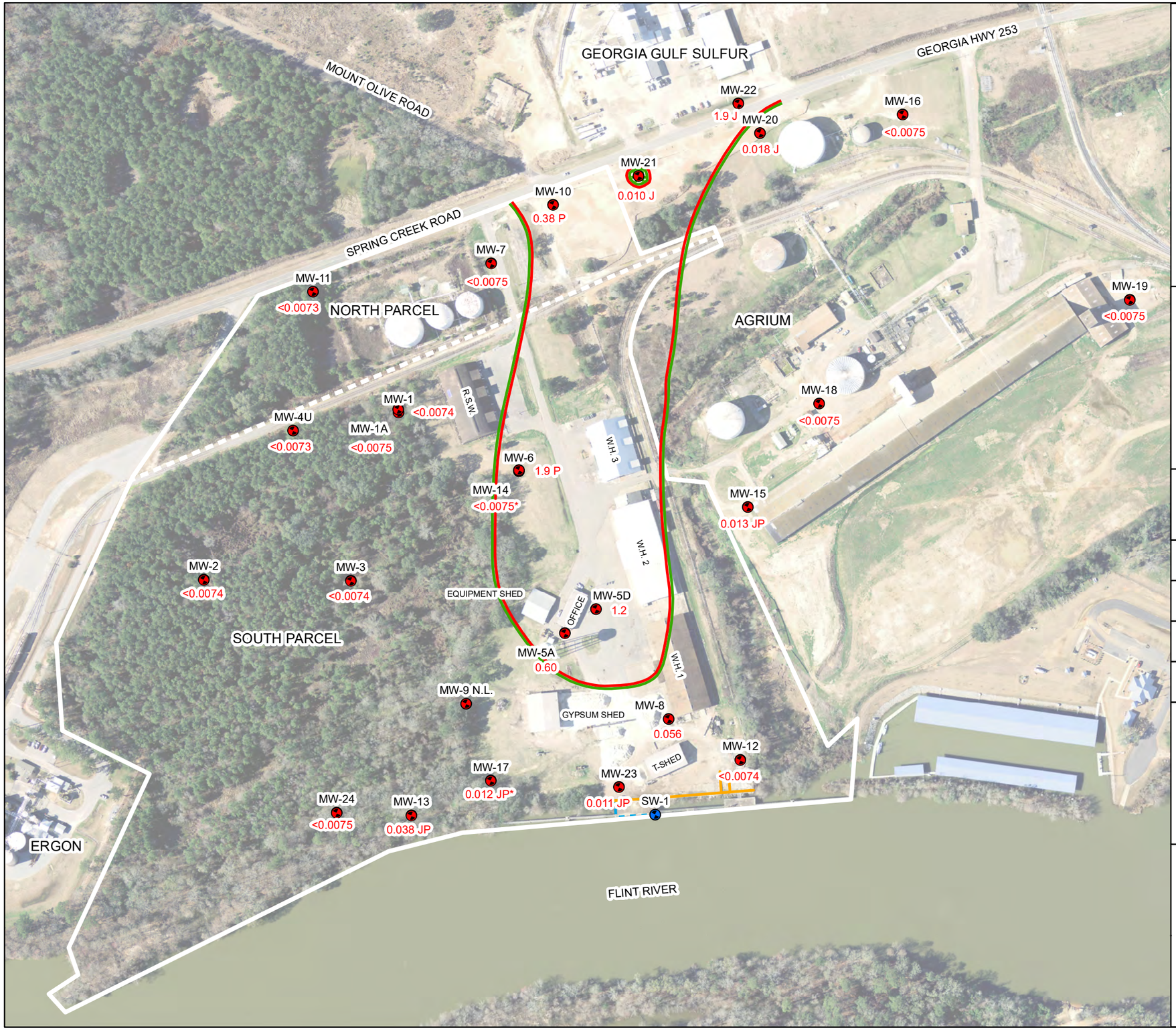
DESIGNED BY: A.G.	REVISIONS NO.	REVISIONS DATE	DATE: 4/22/2016
DRAWN BY: A.G.			SCALE: SEE BAR SCALE
CHECKED BY: A.S.			SHEET NO.: 1 OF 1
APPROVED BY: R.M.			

FIGURE 2-10: MARCH 2016 BETA-BHC ISOCONCENTRATION MAP

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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

FILE: 400007 - 4.5 - GPA BAINBRIDGE



Legend

MONITORING WELL

STILLING WELL

MW-18 MONITORING WELL ID

N.L. NOT LOCATED

SITE FEATURES

BULKHEAD

NORTH AND SOUTH PARCEL DIVISION

BAINBRIDGE PARCEL LINES

PIER

DELTA-BHC CONCENTRATIONS

CONTOURS

DELINIATION CRITERION OF 0.1 µg/L

RRS TYPE 4 OF 0.1 µg/L

CONCENTRATIONS

4.5 CONCENTRATION IN µg/L

<0.0075* CONCENTRATION NOT CONSIDERED IN CONTOURS FOR DEEP WELLS (SCREENED BELOW 50 FT BGS)

J CONCENTRATION BELOW QUANTITATION LIMIT AND ABOVE DETECTION LIMIT

P THE %RPD BETWEEN THE PRIMARY CONFIRMATION COLUMN/DETECTOR IS >40%. THE LOWER VALUE HAS BEEN REPORTED.

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.
WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400

Feet

DESIGNED BY: A.G.	REVISIONS NO.	REVISIONS DATE	DATE: 4/22/2016
DRAWN BY: S.F.H.			SCALE: SEE BAR SCALE
CHECKED BY: A.S.			SHEET NO.: 1 OF 1
APPROVED BY: R.M.			

FIGURE 2-11: MARCH 2016 DELTA-BHC ISOCONCENTRATION MAP

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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161 KIMBALL BRIDGE RD.
ALPHARETTA, GEORGIA 30009

FILE: 400007 - 4.5 - GPA BAINBRIDGE

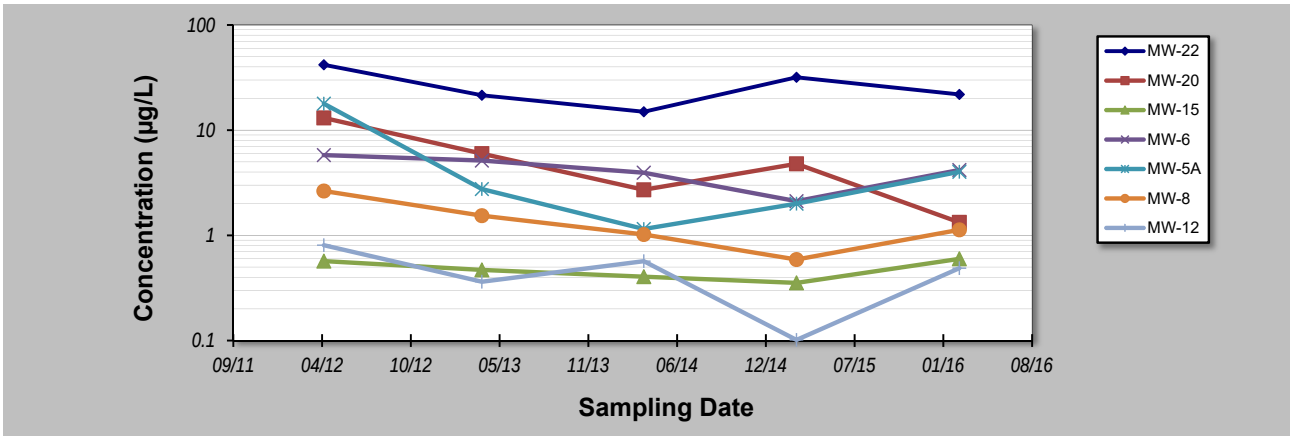
Figure 2-12: Groundwater Total BHC Mann-Kendall Trend Analysis

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date: 15-Jun-16
Facility Name: GPA - Bainbridge Terminal
Conducted By: EIC

Job ID: 400007-4.5
Constituent: Total-BHC (alpha-, beta-, delta-, & gamma-BHC)
Concentration Units: µg/L

Sampling Point ID:	MW-22	MW-20	MW-15	MW-6	MW-5A	MW-8	MW-12
Sampling Event	Sampling Date	TOTAL-BHC (ALPHA-, BETA-, DELTA-, & GAMMA-BHC) CONCENTRATION (µg/L)						
1	5-Apr-12	41.83	13.08	0.57	5.79	17.85	2.64	0.81
2	27-Mar-13	21.48	5.98	0.47	5.14	2.76	1.54	0.36
3	27-Mar-14	14.96	2.71	0.40	3.94	1.15	1.02	0.57
4	6-Mar-15	31.81	4.79	0.35	2.11	2.00	0.59	0.10
5	7-Mar-16	21.86	1.33	0.60	4.18	4.02	1.13	0.49
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Coefficient of Variation:		0.40	0.82	0.22	0.33	1.25	0.56	0.56
Mann-Kendall Statistic (S):		-2	-8	-2	-6	-2	-6	-4
Confidence Factor:		59.2%	95.8%	59.2%	88.3%	59.2%	88.3%	75.8%
Concentration Trend:		Stable	Decreasing	Stable	Stable	No Trend	Stable	Stable



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.

DISCLAIMER: The GSI Mann-Kendall Toolkit is available "as is". Considerable care has been exercised in preparing this software product; however, no party, including without limitation GSI Environmental Inc., makes any representation or warranty regarding the accuracy, correctness, or completeness of the information contained herein, and no such party shall be liable for any direct, indirect, consequential, incidental or other damages resulting from the use of this product or the information contained herein. Information in this publication is subject to change without notice. GSI Environmental Inc., disclaims any responsibility or obligation to update the information contained herein.

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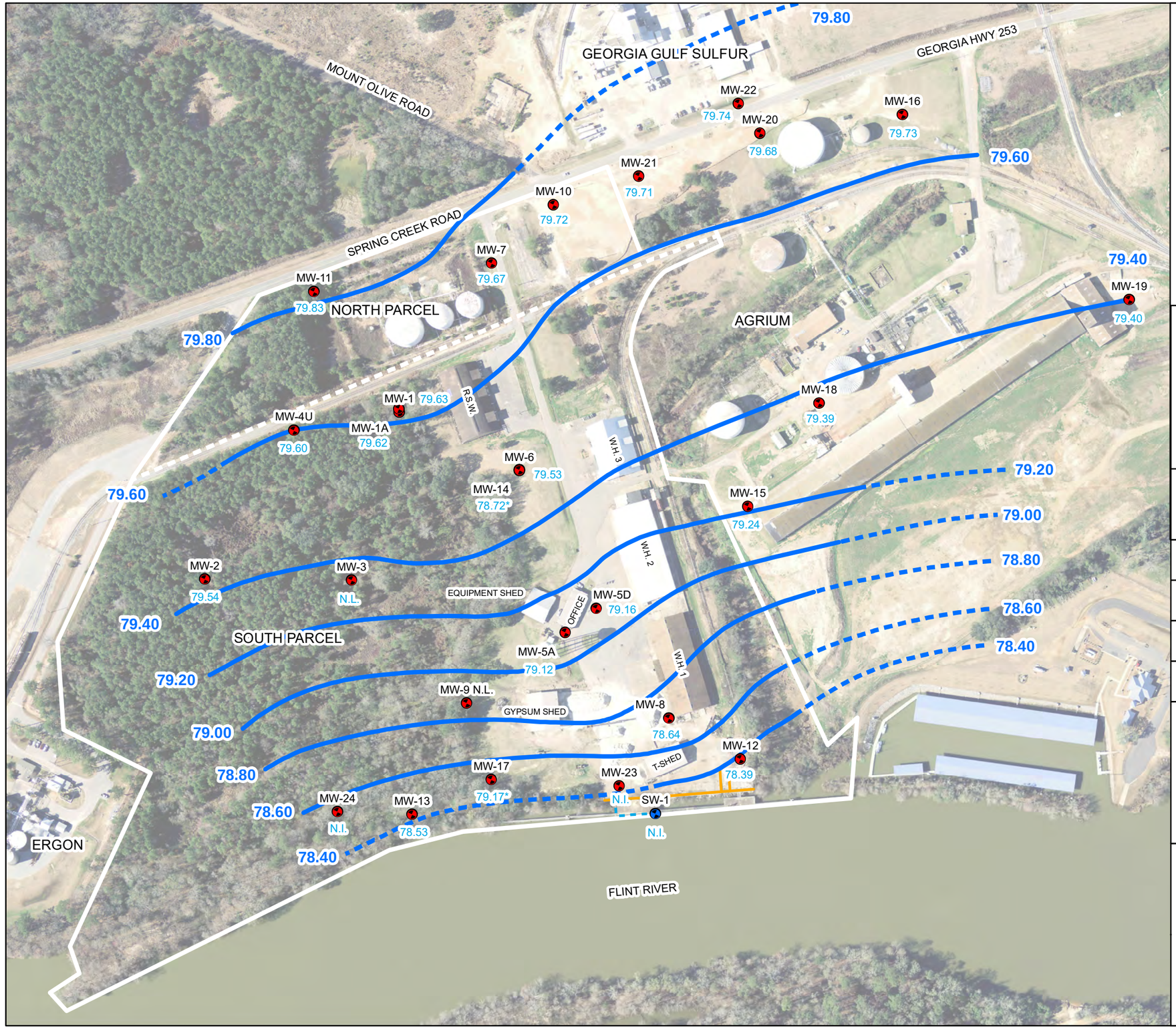


Legend

- MONITORING WELL
- STILLING WELL
- MW-18 MONITORING WELL ID
- N.L. NOT LOCATED

SITE FEATURES

- BULKHEAD
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER

GROUNDWATER CONTOURS

- CONTOUR (0.2 FT.)
- ESTIMATED CONTOUR
- 78.40 GROUNDWATER CONTOUR ELEVATION (FT., NAVD 88)
- 78.94 GROUNDWATER ELEVATION (FT., NAVD 88)
- * GROUNDWATER ELEVATION NOT CONSIDERED AS WELL IS SCREENED GREATER THAN 50 FEET BELOW GROUND SURFACE
- ** GROUNDWATER ELEVATION NOT CONSIDERED DUE TO ANOMALY
- N.I. NOT INSTALLED

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.
WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

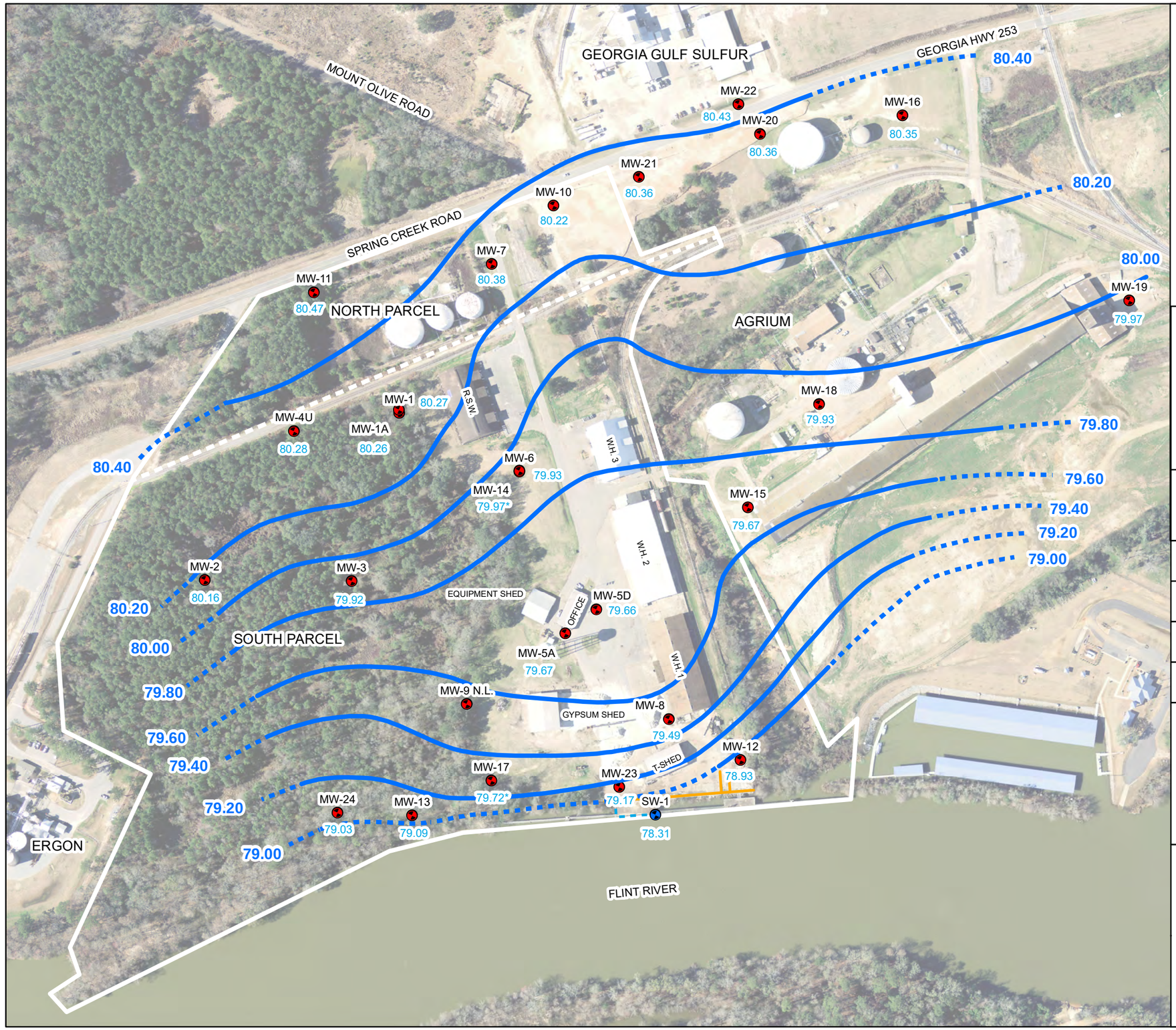
400 200 0 400 Feet

DESIGNED BY: W.G.	REVISIONS NO.	REVISIONS DATE	DATE: 5/4/2015
DRAWN BY: W.G.			SCALE: SEE BAR SCALE
			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 3-1: MARCH 2013 GROUNDWATER POTENTIOMETRIC SURFACE MAP

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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



Legend

MONITORING WELL

STILLING WELL

MW-18 MONITORING WELL ID

N.L. NOT LOCATED

SITE FEATURES

BULKHEAD

NORTH AND SOUTH PARCEL DIVISION

BAINBRIDGE PARCEL LINES

PIER

GROUNDWATER CONTOURS

CONTOUR (0.2 FT.)

ESTIMATED CONTOUR

79.80 GROUNDWATER CONTOUR ELEVATION (FT., NAVD 88)

79.92 GROUNDWATER ELEVATION (FT., NAVD 88)

* GROUNDWATER ELEVATION NOT CONSIDERED AS WELL IS SCREENED GREATER THAN 50 FEET BELOW GROUND SURFACE

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.
WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400

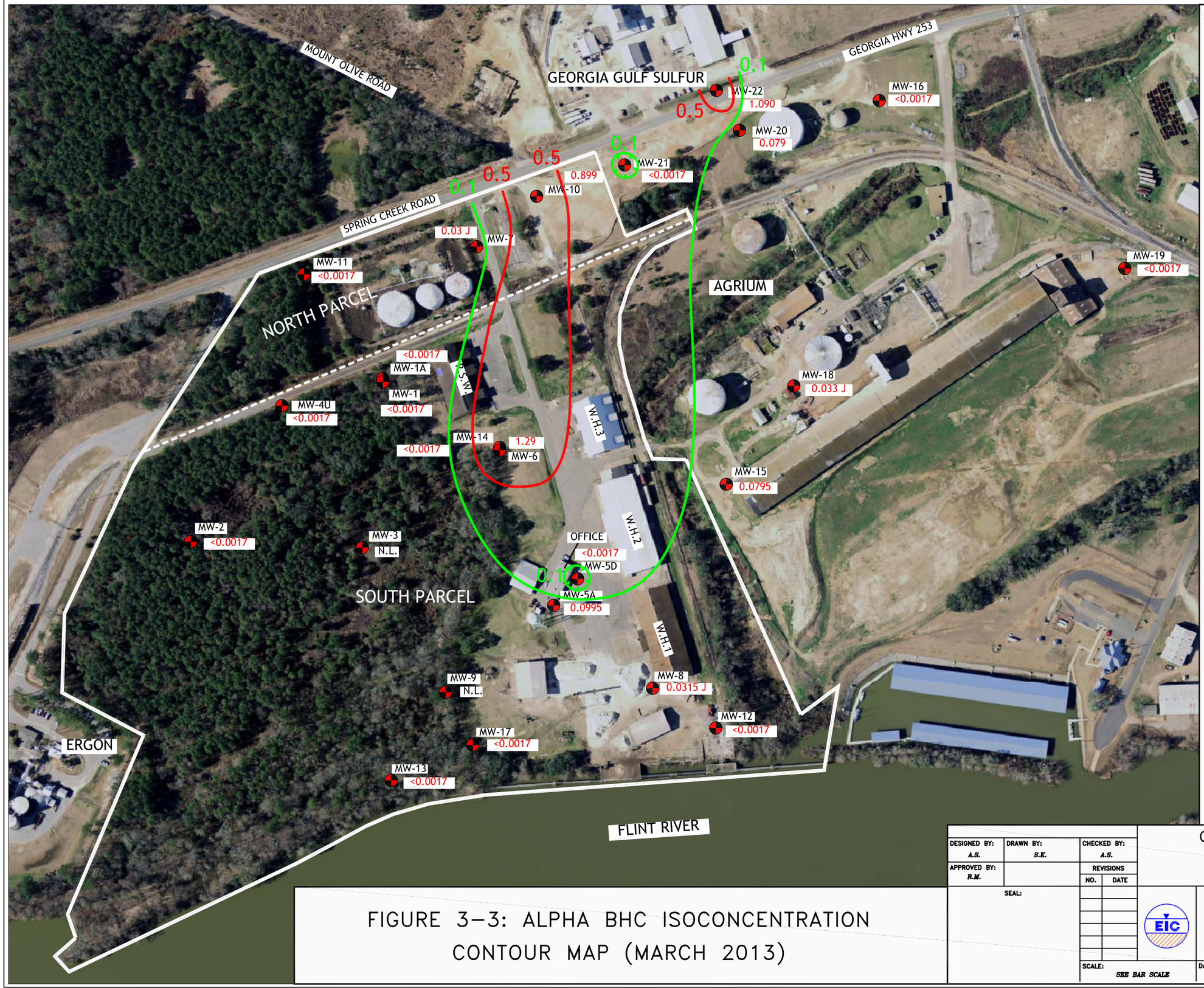
Feet

DESIGNED BY: A.G.	REVISIONS NO.	REVISIONS DATE	DATE: 4/22/2016
DRAWN BY: A.G.			SCALE: SEE BAR SCALE
CHECKED BY: A.S.			SHEET NO.: 1 OF 1
APPROVED BY: R.M.			

FIGURE 3-2: MARCH 2016 GROUNDWATER POTENTIOMETRIC SURFACE MAP

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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



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
0.079	BHC CONCENTRATION (ug/L)
J	TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTIATION LIMIT AND ABOVE THE DETECTION LIMIT
	TYPE 4 RRS LIMIT 0.5 ug/L
	DELINEATION STANDARD 0.1 ug/L
*	BHC CONCENTRATION AT MW−14 NOT CONSIDERED AS IT IS SCREENED BELOW 60 FEET

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 (APPROXIMATE) FROM CH2M HILL DRAFT CAP AND WELL LOG MW−22.

N

100 0 100 200 300

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

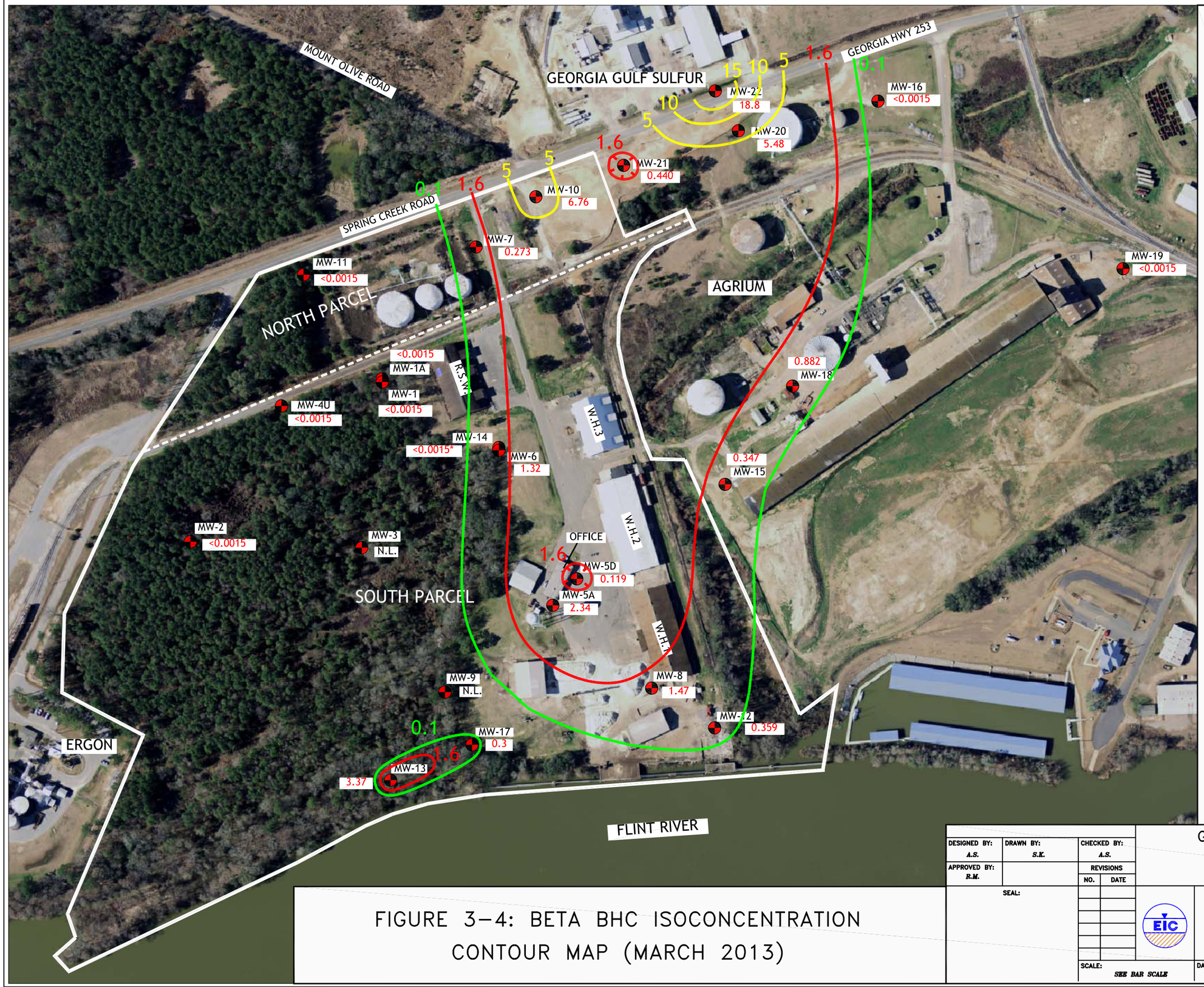
FIGURE 3−3: ALPHA BHC ISOCONCENTRATION CONTOUR MAP (MARCH 2013)

DESIGNED BY: A.S.	DRAWN BY: S.K.	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	5/13/2013	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
0.119	BHC CONCENTRATION (ug/L)
J	TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTIATION 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−14 NOT CONSIDERED AS IT IS SCREENED BELOW 60 FEET

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 (APPROXIMATE) FROM CH2M HILL DRAFT CAP AND WELL LOG MW−22.

N

100 0 100 200 300

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 3−4: BETA BHC ISOCONCENTRATION CONTOUR MAP (MARCH 2013)

DESIGNED BY: A.S.	DRAWN BY: S.K.	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	5/14/2013	400007 − GPA BAINBRIDGE	

MOUNT OLIVE ROAD
GEORGIA GULF SULFUR
GEORGIA HWY 253
SPRING CREEK ROAD
NORTH PARCEL
AGRIUM
SOUTH PARCEL
ERGON
FLINT RIVER
R.S.W.
W.H.1
W.H.2
W.H.3
OFFICE

MW-22 0.818
MW-16 <0.0009
MW-20 0.392
MW-21 <0.0009
MW-10 0.683
MW-7 <0.0009
MW-11 <0.0009
MW-19 <0.0009
MW-1A <0.0009
MW-1 <0.0009
MW-4U <0.0009
MW-18 <0.0009
MW-14 <0.0009*
MW-6 2.53
MW-15 <0.0009
MW-2 <0.0009
MW-3 N.L.
MW-5D
MW-5A 0.242
MW-9 N.L.
MW-8 <0.0009
MW-12 <0.0009
MW-17 <0.0009
MW-13 <0.0009

0.1
0.1

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
0.818	BHC CONCENTRATION (ug/L)
J	TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTIATION LIMIT AND ABOVE THE DETECTION LIMIT
	TYPE 4 RRS LIMIT 0.1 ug/L
	DELINEATION STANDARD 0.1 ug/L
*	BHC CONCENTRATION AT MW–14 NOT CONSIDERED AS IT IS SCREENED BELOW 60 FEET

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 (APPROXIMATE) FROM CH2M HILL DRAFT CAP AND WELL LOG MW–22.

N

100 0 100 200 300

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 3–5: DELTA BHC ISOCONCENTRATION CONTOUR MAP (MARCH 2013)

DESIGNED BY: A.S.	DRAWN BY: S.K.	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	05/13/2013	400007 – GPA BAINBRIDGE	

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

COMPLIANCE STATUS REPORT

ATTACHMENT 1-1
COMPLIANCE STATUS REPORT CHECKLIST

Compliance Status Report
Review Checklist

Site Name:	Georgia Ports Authority, Bainbridge Terminal			**HIS #:**	10071
City/County:	Bainbridge, Decatur County, Georgia			**CSR DATE:**	9/9/2016
PRP:	Georgia Ports Authority	**Revision No. (if applicable):**	NA	**Consultant:**	Environmental International Corporation

Release to Soil:		**YES** (circled)	**NO**	**Release to Groundwater:**		**YES** (circled)	**NO**
Soil RRS Certification:	**Type 1**	**Type 2**	**Type 3**	**Type 4**	**Type 5** (circled)	**Cannot Certify**	
GW RRS Certification:	**Type 1**	**Type 2**	**Type 3**	**Type 4**	**Type 5** (circled)	**Cannot Certify**	

RULE SECTION	DESCRIPTION OF REQUIREMENT	Y or [-]	Location in CSR (i.e. pg.)
391- 3-19-.06(3)(b)(1)	A description of each known source which has contributed to or is contributing to a release at the site including:	Y	pg. 5-6
391- 3-19-.06(3)(b)(1)(i)	Source name, number, or other descriptor;	Y	pg. 5-6
391- 3-19-.06(3)(b)(1)(ii)	Location of source on a map (minimum scale of 1" = 200');	Y	pg. 5-6, Fig. 1-1
391- 3-19-.06(3)(b)(1)(iii)	Name of each regulated substance released from each source;	Y	pg. 5
391- 3-19-.06(3)(b)(1)(iv)	Chronology of each source of a release; and	Y	pg. 5-6
391- 3-19-.06(3)(b)(1)(v)	If source is an engineered structure or waste management unit, a description of the function, design, dimensions, capacity and operation of the source, including as-built construction diagrams where available	-	-
	Releases to Soil		
391- 3-19-.06(3)(b)(2)	Complete definition of horizontal and vertical extent of soil contamination to background. Background shall be determined using samples representative of soil conditions not affected by a release of a regulated substance. In support of the definition of the extent of contamination, the CSR shall include, at a minimum:	Y	pg. 6-8
391- 3-19-.06(3)(2)(b)(i)	General approach used;	Y	pg. 14-21
391- 3-19-.06(3)(b)(2)(ii)	Analytical parameters selected and the rationale for selection;	Y	pg. 5 & 19
391- 3-19-.06(3)(b)(2)(iii)	Map of minimum scale of 1" = 200' showing location of all sampling points by sample number, and vertical cross-sections where appropriate. Concentrations of constituents should be indicated by isoconcentration lines.	Y	Fig. 2-6, 2-7, 2-8
391- 3-19-.06(3)(b)(2)(iv)	Sampling and analysis procedures including:	Y	pg. 17-19
391- 3-19-.06(3)(b)(2)(iv)(I)	Sampling equipment and collection techniques;	Y	pg. 17-19
391- 3-19-.06(3)(b)(2)(iv)(II)	Field analytical or measurement techniques including make and model of equipment and calibration schedule and type;	-	-
391- 3-19-.06(3)(b)(2)(iv)(III)	Sample handling and preservation techniques;	Y	pg. 19
391- 3-19-.06(3)(b)(2)(iv)(IV)	Equipment decontamination procedures;	Y	pg. 19
391- 3-19-.06(3)(b)(2)(iv)(V)	Chain-of-custody procedures;	Y	pg. 19
391- 3-19-.06(3)(b)(2)(iv)(VI)	Lab techniques including references to analytical methods, including QA/QC procedures;	Y	pg. 19, Exhibits C, D, F
391- 3-19-.06(3)(b)(2)(v)	A description of any statistical procedures used to evaluate the data;	Y	pg. 20
391- 3-19-.06(3)(b)(2)(vi)	Procedures used to establish background soil concentrations; and	-	-
391- 3-19-.06(3)(b)(2)(vii)	Narrative and tabular summary of all pertinent field data and the results of all final lab analyses that are supported by sufficient QA/QC control data to validate the results.	Y	Table 2-5
	Releases to Groundwater		
391- 3-19-.06(3)(b)(3)	Complete definition of horizontal and vertical extent of groundwater contamination to background. Background shall be determined using samples representative of groundwater conditions not affected by a release of a regulated substance. In support of the definition of the extent of contamination, the CSR shall include, at a minimum:	Y	pg. 8-9
391- 3-19-.06(3)(b)(3)(i)	Analytical parameters selected and the rationale for selection;	Y	pg. 5 &24
391- 3-19-.06(3)(b)(3)(ii)	A description of methods used to characterize sub-surface geology;	Y	pg. 4
391- 3-19-.06(3)(b)(3)(iii)	A description of methods used to characterize vertical and horizontal groundwater flow gradients, flow rates, and flow directions;	Y	pg. 4-5, Exhibit F
391- 3-19-.06(3)(b)(3)(iv)	Methods used to determine hydraulic conductivities and other pertinent hydrogeological characteristics, including a description of any slug and/or aquifer tests;	Y	pg. 4-5, Exhibit F
391- 3-19-.06(3)(b)(3)(v)	A description of groundwater monitoring well locations, and their installation and construction methods, including:	Y	pg. 23-24, Table 3-1
391- 3-19-.06(3)(b)(3)(v)(I)	A map (minimum scale 1"= 200') depicting all existing well locations including a survey of each well's surface reference point and the elevation of its top-of-casing;	Y	Fig. 1-1

RULE SECTION	DESCRIPTION OF REQUIREMENT	Y or [-]	Location in CSR (i.e. pg.)
391- 3-19-.06(3)(b)(3)(v)(II)	Type of well casing material;	Y	Table 3-1
391- 3-19-.06(3)(b)(3)(v)(III)	Description of well intake design including screen slot size and length, filter pack materials and length, and method of filter pack emplacement;	Y	Table 3-1
391- 3-19-.06(3)(b)(3)(v)(IV)	Method used to seal the well from the surface and any other features designed to prevent or minimize downward migration of contaminants along the well annulus; and	Y	Table 3-1
391- 3-19-.06(3)(b)(3)(v)(V)	Description of methods and procedures used to develop the wells.	Y	Table 3-1
391- 3-19-.06(3)(b)(3)(vi)	Description of all sampling and analysis procedures used including:	Y	pg. 24-25
391- 3-19-.06(3)(b)(3)(vi)(I)	Procedures and timing for measuring groundwater elevations for each sampling event;	Y	pg. 24
391- 3-19-.06(3)(b)(3)(vi)(II)	Well evacuation procedures including well volume evacuated prior to sampling;	Y	pg. 24
391- 3-19-.06(3)(b)(3)(vi)(III)	Sample withdrawal techniques, sampling equipment and materials;	Y	pg. 24
391- 3-19-.06(3)(b)(3)(vi)(IV)	Sample handling and preservation techniques;	Y	pg. 24-25
391- 3-19-.06(3)(b)(3)(vi)(V)	Equipment decontamination procedures;	Y	pg. 25
391- 3-19-.06(3)(b)(3)(vi)(VI)	Chain-of-custody procedures;	Y	pg. 24
391- 3-19-.06(3)(b)(3)(vi)(VII)	Lab techniques including references to analytical methods, including QA/QC procedures;	Y	pg. 24-25
391- 3-19-.06(3)(b)(3)(vii)	Description of procedures used to determine background groundwater concentrations;	-	-
391- 3-19-.06(3)(b)(3)(viii)	Map (minimum scale of 1" = 200') or less depicting the horizontal extent of contamination. Concentrations should be indicated by isoconcentration lines.	Y	Fig. 2-9, 2-10, 2-11
391- 3-19-.06(3)(b)(3)(ix)	Map (minimum scale of 1" = 200') or less depicting the potentiometric surface of groundwater;	Y	Fig. 3-1, 3-2
391- 3-19-.06(3)(b)(3)(x)	Maps and vertical cross-sections of appropriate scale depicting concentrations for all contaminants superimposed upon site stratigraphic features and monitoring wells; and	Y	Exhibit F
391- 3-19-.06(3)(b)(3)(xi)	Narrative and tabular summary of all pertinent field data and the results of all final lab analyses that are supported by sufficient QA/QC control data to validate the results.	Y	pg. 25-26, Table 3-4
Additional Requirements			
391- 3-19-.06(3)(b)(4)	A description of any human or environmental receptors who may have been or could potentially be exposed to a release at the site.	Y	pg. 13-14
391- 3-19-.06(3)(b)(5)	A description of all properties which are part of the site including the address and location of such property, its legal description, and the property owner's name, address and telephone number.	Y	pg. 2-3
391- 3-19-.06(3)(b)(6)	The name, address, and telephone number of any other person who may be a responsible party for the site and a description of the type and amount of regulated substances such party may have contributed to a release.	-	-
391- 3-19-.06(3)(b)(7)	A summary of previous actions taken to eliminate, control or minimize any potential risk at the site, including actions taken to comply with the risk reduction standards.	Y	pg. 1-2
391- 3-19-.06(3)(b)(10)	Attached to the front of the CSR, concise statement of the findings of the report presented in plain language, immediately followed by the certification required by 391-3-19-.06(4)(a).	Y	Executive Summary
391-3-19-.06(4)(a)	The CSR shall include a compliance certification regarding the responsible party's own determination as to the status of a site or any individual property at a site with regard to the applicable risk reduction standards for all regulated substances evaluated by the CSR.	Y	Compliance Certification
391-3-19-.06(4)(b)	The CSR certification shall be signed by the applicable person described in Items 1 - 4 of .03(6)(c). Where the CSR is submitted for two or more cooperating responsible parties, the certification may be signed by a duly authorized representative of said responsible parties.	Y	Compliance Certification
391-3-19-.06(4)(c)	Any person signing the certification of compliance shall make the certification specified in the Rules.	Y	Compliance Certification
391- 3-19-.06(5)(a)	Within 7 days of submitting the CSR, RP shall publish a notice in both a major local newspaper of general circulation and the legal organ of the local governments in whose jurisdiction the site is located, announcing that such a report is available for inspection by the general public, including:	Y	-

RULE SECTION	DESCRIPTION OF REQUIREMENT	Y or [-]	Location in CSR (i.e. pg.)
391- 3-19-.06(5)(a)(1)	The name, address, and location of the site as it appears on the HSI, and, if the plan applies to less that the full site, the street address and owner's name of the applicable properties;	Y	-
391- 3-19-.06(5)(a)(2)	The statement provided in this section;	Y	-
391- 3-19-.06(5)(a)(3)	Announcement of a 30-day comment period and the name, address, and phone number of the EPD contact person to whom written or oral comments can be made;	Y	-
391- 3-19-.06(5)(a)(4)	Name, address, and phone number of the RP or its designated contact person; and	Y	-
391- 3-19-.06(5)(a)(5)	Location where the report may be viewed or copied.	Y	-
391- 3-19-.06(5)(e)	Within 7 days of submitting the CSR to EPD, the RP shall provide to the count government in the county in which the site is located and to the government of any city in whose jurisdiction the site is located the same information required above.	Y	-
391-3-19-.07(4)	For corrective action to be in compliance with these standards, the following common elements are required:	Y	-
391-3-19-.07(4)(a)	Removal of all free product to the extent practicable.	Y	-
391-3-19-.07(4)(b)	No soil remaining in place shall exhibit the hazardous waste characteristics of ignitability, corrosivity, or reactivity.	Y	-
391-3-19-.07(4)(c)	Shall not allow exposure to concentrations which would cause food chain contamination, damage to soils or to biota which could impair the use of the soils for agricultural or silvicultural purposed, adverse effects on vegetation or wildlife, or the accumulation of vapors in buildings or other structures which pose a threat to human health and the environment	Y	-
391-3-19-.07(4)(d)	Shall protect the waters of the State from releases that would cause surface water to exceed the Georgia in-stream water quality standards.	Y	-
391-3-19-.07(4)(e)	If the detection limit and/or the background concentration for a regulated substance is greater than the concentration specified in any risk reduction standard, the greater of the detection limit or background shall be used for determining compliance with the risk reduction standards.	-	-

Y	Groundwater work certified by a geologist, etc.
-	Corrective Action Plan Included

Additional Notes:

Background concentrations were not explicitly established since the primary consistuents of concern aren ot naturally occuring. Several soil and groundwater samples exhibited COC concentrations below detection limits.

CONSTITUENTS OF CONCERN - SOIL				
Constituent	**CAS No.**	**Notification Concentration (mg/kg)**	**RRS Type**	**In compliance with RRS?**
alpha-BHC	319-84-6	0.66	Type V	(yes) no
beta-BHC	319-85-7	3.1	Type V	(yes) no
delta-BHC	319-86-8	0.10	Type V	(yes) no
gamma-BHC (Lindane)	58-89-9	12	Type V	(yes) no
				yes no
				yes no
				yes no
				yes no
				yes no
				yes no
				yes no
				yes no
				yes no
				yes no
				yes no
				yes no
				yes no
				yes no
				yes no
				yes no
CONSTITUENTS OF CONCERN - GROUNDWATER				
Constituent	**CAS No.**	**MCL (µg/L)**	**RRS Type**	**In compliance with RRS?**
alpha-BHC	319-84-6	0.5	Type V	(yes) no
beta-BHC	319-85-7	1.6	Type V	(yes) no
delta-BHC	319-86-8	0.1	Type V	(yes) no
				yes no
				yes no
				yes no
				yes no
				yes no
				yes no
				yes no
				yes no
				yes no
				yes no
				yes no
				yes no
				yes no
				yes no

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

COMPLIANCE STATUS REPORT

ATTACHMENT 1-2
DEEDS AND LEGAL DESCRIPTION

D-S
358

DEED OF CORRECTION 358

STATE OF GEORGIA
COUNTY OF FULTON

THIS INDENTURE, Made as of the 15th day of June, in the Year of Our Lord One Thousand Nine Hundred and Sixty-Four (1964), between the STATE OF GEORGIA, as First Party, and the GEORGIA PORTS AUTHORITY, as Second Party,

W I T N E S S E T H:

WHEREAS, the State of Georgia was duly authorized to convey certain real property in Decatur, Glynn and Richmond Counties to the Georgia Ports Authority (Georgia Laws, 1959, P. 145-151), and

WHEREAS, said State, First Party, did heretofore on the 18th day of March, 1959, convey said real property in the Counties of Decatur, Glynn and Richmond, in the State of Georgia, to the "State Ports Authority", and

WHEREAS, the name of the "State Ports Authority" was changed to "Georgia Ports Authority" in 1949 (Georgia Laws, 1949, P. 778-780), and

WHEREAS said conveyance by First Party should properly have been made to the "Georgia Ports Authority", and

WHEREAS, the description of the tract of 35.25 acres, in Decatur County, Georgia, contains an error in that one of the directional calls is omitted, and

WHEREAS, the Parties hereto desire to correct the errors made in said Instrument of March 18, 1959, and to properly and satisfactorily name the Grantee and correctly describe the property conveyed:

NOW THEREFORE, in consideration of the premises and in order to correct the prior Instrument above referred to and

RECEIVED
Oct 8 3 36 PM '64
BEN W. FORTSON
SECRETARY OF STATE

other valuable considerations flowing between the Parties, this Deed of Correction is made and delivered and the First Party does hereby grant, bargain, sell and convey, and by these does hereby grant, bargain, sell and convey unto the Second Party, its successors and assigns, the following described property, to wit:

> All that tract or parcel of land, situate, lying and being in Richmond County, Georgia, east of the corporate limits of the City of Augusta and north of the Sand Bar Ferry Road, containing seventy-eight (78) acres, more or less, and beginning at a point on the toe of the Levee nineteen hundred and twenty-five feet (1925) east of the East Boundary at a point identified on a map of the Department of Public Works, Augusta, Georgia, dated 26 August, 1958, by the letter 'D'; thence in a generally northerly direction a distance of two hundred and thirty-five feet (235), more or less, to the south waterline of the Savannah River to a point identified on said map by the letter 'A'; thence in a generally easterly direction along the south waterline of the Savannah River a distance of seventy-one hundred and fifty feet (7150), more or less, to a point identified on said map by the letter 'B'; thence in a generally southwesterly direction a distance of three hundred fifteen feet (315), more or less, to a point on the toe of the Levee identified on said map by the letter 'C'; thence in a generally westerly direction along the toe of the Levee a distance of sixty-six hundred and fifty feet (6650) to the point of beginning; bounded on the North by the Savannah River; on the East and South by other property of the City Council of Augusta and on the West by property of the Texas Company. All as shown upon said map on which said tract is designated "Tract A", which map is attached to the deed from the City Council of Augusta to the State of Georgia, dated September 3, 1958, and which said deed is on file in the office of the Secretary of State of Georgia, and by reference made a part hereof.
>
> Expressly reserved from this conveyance of the above described property is an easement in, over and upon the southernmost twelve feet (12) thereof, as a road for levee maintenance and other purposes, which easement is also shown on said map.

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ALSO, all that tract or parcel of land, situate, lying and being in Richmond County, Georgia, east of the corporate limits of the City of Augusta, containing two and two-tenths (2.2) acres, on the North side of the Sand Bar Ferry Road, on which it fronts seventy-nine and two-tenths (79.2) feet, and extends back in a northeasterly direction a distance of twelve hundred eighty-one and three-tenths (1281.3) feet on its western line and a distance of twelve hundred ninety-four and two-tenths (1294.2) feet on its eastern line to a rear width of seventy-nine and two-tenths (79.2) feet; bounded on the North by a strip of land reserved for a railroad right-of-way; on the East by lots of Jones and Nicholson, Hammock and Lundy; on the South by Sand Bar Ferry Road; and on the West by Pistol Range Road, designated upon the map first referred to as 'Tract B' and identified by the letters 'G', 'H', 'E', and 'F', which map by reference is made a part hereof.

The property next above described was conveyed to the State of Georgia by a deed dated September 3, 1958, from the City Council of Augusta, which said deed is on file in the office of the Secretary of State of Georgia, and by reference made a part hereof to better identify said property.

ALSO, all that certain tract, lot and parcel of land, situate, lying and being in the City of Brunswick, in Glynn County, Georgia, identified and described according to the map and plat entitled 'Port and Industrial Sites, Glynn County, Brunswick, Georgia', dated May 30, 1958, and thereon identified and described as 'Proposed State Docks', and more particularly described as follows, to wit:

Beginning at a point on the westerly line of Newcastle Street where said line of Newcastle Street would be intersected by the southerly line of Fifth Avenue if said line of Fifth Avenue were projected westerly; thence running westerly along the southerly line of Fifth Avenue if the same were projected westerly for a distance of one thousand two hundred twenty-seven and eighty-five one-hundredths (1,227.85) feet to the United States Government harbor line in East River; thence running northerly along the said U. S. Government harbor line for a distance of eleven hundred and four one-hundredths (1,100.04) feet; thence running easterly along a line parallel to and 1,100.04 feet northerly from the southerly line of

Fifth Avenue for a distance of five hundred and twenty-five (525) feet, more or less, to the westerly line of Bay Street (if said Bay Street were projected southerly and said Bay Street being ninety-two and five-tenths (92.5) feet in width at said point); thence running southerly for a distance of twenty and four one-hundredths (20.04) feet along said westerly line of Bay Street to the point where said line of Bay Street is intersected by the southerly line of Third Avenue if said Third Avenue were projected westerly; thence running easterly along the southerly line of Third Avenue, if said Third Avenue were projected westerly, for a distance of four hundred ninety-seven and five tenths (497.5) feet to the westerly line of Grant Street, if said Grant Street were projected southerly; thence running southerly along said southerly projection of the westerly line of Grant Street for a distance of four hundred eighty (480) feet; thence at right angles to said last described line running westerly for a distance of two hundred and five (205) feet; thence at right angles to said last described line running southerly for a distance of one hundred five (105) feet; thence at right angles to said last described line running westerly for a distance of two hundred (200) feet; thence at right angles to said last described line running southerly for a distance of one hundred twenty-five (125) feet; thence at right angles to said last described line running easterly for a distance of five hundred forty (540) feet to the westerly line of Newcastle Street; thence running southerly and southeasterly along said westerly line of Newcastle Street for a distance of four hundred twenty and two-tenths (420.2) feet to the point or place of beginning.

There is excepted from this conveyance, the easement or rights-of-way of the Atlantic Coast Line and Southern Railroads as the same is shown to run through the above described and hereby conveyed tract of land on the aforesaid plat.

The property described next above was conveyed to the State of Georgia by a deed dated July 7, 1958, from the City of Brunswick, which said deed is on file in the office of the Secretary of State of Georgia, and by reference made a part hereof to better identify said property.

ALSO, that certain tract of land containing 56 acres, more or less, located in Lots of Land No. 372 and 373 in the 15th District of Decatur County,

Georgia, being a portion of Decatur County Farm Land located on the North of Flint River and South of the Bainbridge-Spring Creek paved highway (Georgia State Highway No. 253), East of the site now known as American Bitumuls & Asphalt Company and West of other land of Decatur County, Georgia and which tract is now known as the Georgia State Ports Authority, and is more particularly described as follows:

'Commencing at the Southwest corner of Land Lot No. 373, 15th District, Decatur County, Georgia (marked by a U. S. Government monument); thence N 01 degree 41' E, 457.0 feet to a U. S. Government monument; thence N 63 degree 06' E, 661.4 feet to a U. S. Government concrete monument; thence N 52 degree 03' E 648.9 feet to a U. S. Government concrete monument and the point of beginning; thence N 01 degree 41' E, 1,637.9 feet to a point on the South right-of-way of Georgia State Highway No. 253; thence N 45 degree 53' E along the South right-of-way of Georgia State Highway No. 253, 992.2 feet to a point of curvature; thence along the South right-of-way of Georgia State Highway No. 253 along a curve to a right in a general northeasterly direction with a radius of 5,690 feet for a distance of 911.9 feet to a point of tangency (chord N 50 degree 28' E. 911.0 feet); thence continue along the South right-of-way of Georgia State Highway No. 253, N 55 degree 04' E, 173.6 feet; thence S 08 degree 14' W. 98.0 feet; thence S 40 degree 54' W. 597.3 feet; thence S 26 degree 43' W, 949.5 feet; thence S 03 degree 56' W, 185.0 feet; thence S 40 degree 51' E, 1,054.9 feet to a point on the north shore line of Flint River; thence downstream along the North shore line of Flint River in a southwesterly direction to a point which is S 48 degree 49' W, 1,953.2 feet; thence N 01 degree 41' E. 658.3 feet to the point of beginning.'

The property described next above was conveyed to the State of Georgia by a deed dated October 2, 1956, from Decatur County, Georgia through the Chairman of the Board of Commissioners of Roads and Revenues, which deed is on file in the office of the Secretary of State of Georgia and by reference made a part hereof in aid of the description of said property.

ALSO, all that certain tract, lot and parcel of land situate, lying and being in Land Lots 372 and 373 of the 15th District of Decatur County, Georgia, containing 35.25 acres, and more particularly described as follows:

Commencing at the Southeast corner of Land Lot No. 372, 15th District, Decatur County, Georgia (Marked by a U. S. Government monument); thence N 0 degree 55' E, 650.0 feet; thence N 88 degree 50' W, 60.0 feet to a concrete monument and the point of beginning; thence S 51 degree 42' W along North boundary of Lands of General Gas Corp., 858.0 feet; thence S 31 degree 28' W along North boundary of lands of General Gas Corp, 823.4 feet; thence S 50 degree 19' E along West Boundary of lands of General Gas Corp., 500.0 feet; thence S 16 degree 35' E, 232.0 feet to a point on the Northern shore of Jim Woodruff Reservoir; thence along the Northern shore of Jim Woodruff Reservoir in a Southwesterly direction to a point which is S 66 degree 21' W, 240.0 feet; thence along the East boundary of lands formerly deeded to Georgia Ports Authority as follows: N 40 degrees 51' W, 1054.9 feet; N 03 degrees 56' E, 185.0 feet; N 26 degrees 43' E, 949.5 feet; N 40 degrees 54' E, 597.3 feet; N 08 degrees 14' E, 98.0 feet to a point on South right-of-way of Georgia State Highway No. 253; thence North 55 degrees 04' E along South right-of-way of Georgia State Highway No. 253, 630.9 feet; thence S 0 degree 55' W, 998.1 feet; thence along a curve to the left in a Northeasterly direction with a radius of 427.50 feet to a point which is N 60 degrees 49' E, 28.0 feet to a point of tangency; thence N 58 degrees 57' E 225.5 feet to the point of beginning. LESS AND EXCEPT 2.88 acres, more or less, contained in right-of-way for railroad spur track to State Docks as previously deeded S. A. L. Railway.

Specifically reserved from the above described tract of land is a strip of land for a 100 foot wide perpetual Railroad right-of-way easement from the proposed S. A.L. Railway spur track, running in an Easterly and Westerly direction through said described tract, to other adjoining lands of Decatur County which are located on the North side of Georgia State Highway No. 253. Said strip having been reserved for the use of Decatur County, Georgia in its conveyance to the State of Georgia dated February 4, 1958, which said deed is on file in the Office of the Secretary of State of Georgia, and by reference made a part hereof for a more complete description of said property. The above 35.25 acre tract of land being more fully shown by plat of same made by R. H. Alcorn, C. E., on December 28, 1957, and recorded in Plat Book 4, Page 6, in the Clerk's office of Superior Court of Decatur County, Georgia.

364

This Deed of Correction is executed and delivered by the Governor of Georgia, acting for and on behalf of the State of Georgia under and as duly authorized by an Act of the General Assembly of Georgia approved March 9, 1945, known as the State Ports Authority Act, appearing on Pages 464-480, inclusive, of the Acts of the General Assembly of 1945, as amended by an Act approved March 10, 1959 (Georgia Laws 1959, Pages 145-151).

TO HAVE AND TO HOLD the said tract or parcel of land with all and singular the rights, members and appurtenances thereof, to the same being, belonging, or in any wise appertaining, to the only proper use, benefit and behoof of the said party of the second part, its successors and assigns, forever, IN FEE SIMPLE.

IN WITNESS WHEREOF, The State of Georgia has caused these presents to be signed by the Governor, with the official Seal of The State affixed, and attested by the Secretary of State, this the day and year first above written.

STATE OF GEORGIA

By: Carl E. Sanders (L.S.)
Carl E. Sanders, Governor

Attest: Ben W. Fortson Jr (L.S.)
Ben W. Fortson, Jr.
Secretary of State

SIGNED, SEALED AND DELIVERED IN THE PRESENCE OF: (As to the signatures of Carl E. Sanders, Governor, and Ben W. Fortson, Jr., Secretary of State)

Henry G. Lee

Ann L. Adamson
Notary Public

Notary Public, Georgia State at Large
My Commission Expires Nov. 9, 1964

Georgia, Decatur County, Filed Oct 15, 1964 at 11:20 A.M. Recorded Oct 16, 1964
Alma M. Griffin, Dep. Clerk, Superior Court

THIS INDENTURE, made this 23rd day of July, 1986, between

001936 CHEVRON U.S.A. INC., a Pennsylvania corporation (successor to American Bitumuls & Asphalt Company, a Delaware corporation, by mergers and name changes), hereinafter called "Grantor", and Georgia Ports Authority , whose mailing address is 132 State Judicial Building, Atlanta, Georgia 30334, hereinafter called "Grantee".

WITNESSETH: That Grantor, for and in consideration of the sum of Ten Dollars ($10.00) and other good and valuable consideration, in hand paid at and before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, has granted, bargained, sold and conveyed and by these presents does hereby grant, bargain, sell and convey unto Grantee, its successors and assigns, a tract or parcel of land, with improvements, situate, lying and being in Decatur County, State of Georgia, and being more particularly described in Schedule A attached hereto and by reference made a part hereof.

TO HAVE AND TO HOLD the said bargained and conveyed premises together with all and singular the rights, members and appurtenances thereto in anywise appertaining or belonging to the only proper use, benefit and behoof of Grantee, its successors and assigns, in fee simple forever.

And Grantor will, and its successors shall, the aforegranted and conveyed premises unto Grantee, its successors and assigns, forever warrant and defend the right and title to said premises by virtue of these preents against the claim or claims of all persons whomsoever, except as to all easements and restrictions of record and zoning and building regulations applicable to said property and any state of facts that might be shown by an accurate survey and any roads or ways over and across said premises.

All taxes for the current year have been prorated as of date of delivery of this deed.

IN WITNESS WHEREOF, the said CHEVRON U.S.A. INC., a Pennsylvania corporation, Grantor herein, has caused these presents to be executed, and its corporate seal to be affixed hereto, by its Assistant Secretary, for and on its behalf, the day and year first above written.

CHEVRON U.S.A. INC.

RECORDED
BOOK I-14 PAGE 322-381

By: D T Sherman
D. T. SHERMAN
Assistant Secretary

Signed, sealed and delivered
in the presence of:

Marianne M. Harlan

Phyllis Glenn
Notary Public
Notary Public, Georgia, State at Large
My Commission Expires Nov. 17, 1986

Date of Notarial Execution: July 23, 1956

DECATUR COUNTY, GEORGIA
REAL ESTATE TRANSFER TAX
PAID $ 110.00
DATE July 31, 1986
Ann S. Mitchell
Dp. Clerk of Superior Court

DECATUR COUNTY, GEORGIA
FILED IN OFFICE
'86 JUL 31 PM 12:11
CLERK OF SUPERIOR COURT

This instrument prepared by:
D. T. SHERMAN
Attorney at Law
P. O. Box 1706
Atlanta, Georgia 30301

000377

378

SCHEDULE A

CHEVRON U.S.A. INC.

TO

GEORGIA PORTS AUTHORITY

All that certain tract or parcel of land lying, situate and being in Land Lot No. 373 in the 15th Land District of Decatur County, Georgia, more particularly described as follows:

COMMENCE at the Southwest corner of Land Lot No. 373 and run thence North 01 deg. 52' 51" East along the West land lot line of Land Lot No. 373 a distance of 457.84 feet to a concrete monument; run thence North 63 deg. 07' East a distance of 661.3 feet to a concrete monument; run thence North 01 deg. 41' East a distance of 468.29 feet to a concrete marker; run thence South 88 deg. 32' 10" East a distance of 112.23 feet to an iron pin and the point of beginning; run thence North 17 deg. 01' 02" West a distance of 164.91 feet to an iron pin; run thence North 01 deg. 45' 13" East a distance of 352.92 feet to an iron pin; run thence North 04 deg. 30' 11" East a distance of 100.51 feet to an iron pin; run thence North 12 deg. 24' 07" East a distance of 291.53 feet to an iron pin; run thence North 07 deg. 57' 50" East a distance of 336.50 feet to a concrete marker located on the Southeast right-of-way line of State Route No. 253; run thence North 45 deg. 53' East a distance of 489.44 feet to a concrete marker located on the Southeast right-of-way line of State Route No. 253; run thence South 01 deg. 41' West a distance of 1,638.07 feet to a concrete marker; run thence South 01 deg. 41' West a distance of 355.81 feet to a concrete marker; run thence South 60 deg. 18' 16" West a distance of 106.84 feet to an iron pin; run thence North 01 deg. 34' 54" East a distance of 468.46 feet, more or less, to an iron pin; run thence North 88 deg. 32' 10" West a distance of 292.71 feet to an iron pin and the point of beginning. All in accordance with a plat of survey for Chevron U.S.A. Inc., prepared by Wallace Long Hambrick, GRLS No. 1375, dated March 24, 1986, and recorded in Plat Cabinet 8, Slide 70, Land Records of Decatur County, Georgia.

Being a portion of the same property conveyed from Decatur County, Georgia by and through W. W. Long, Chairman of the Board of Commissioners of Roads and Revenues, to American Bitumuls & Asphalt Company, a corporation of Delaware, by deed dated October 2, 1956 and recorded in the Office of the Clerk of the Superior Court of Decatur County, Georgia, on October 5, 1956 in Book T-6, Page 116.

LESS AND EXCEPT that portion of the above-described property as was conveyed to the United States of America by warranty deed dated March 29, 1963, and recorded in Deed Book X-7, Pages 229-231, Land Records of Decatur County, Georgia.

TOGETHER with the rights reserved unto American Bitumuls & Asphalt Company in the above described deed dated March 29, 1963.

SUBJECT TO:

(1) Riparian rights incident to the premises.

(2) Easement in favor of Georgia Power Company running over and across the western portion of caption property from Georgia State Route 253 into property adjoining caption property on the southwest as reported on Surveyor's Certificate Report by Wallace Hambrick, Surveyor, dated August 25, 1982 and revised March 24, 1986.

(3) Easement line in favor of Corps of Engineers of United States of America running across the southern portion of caption property as shown on Plat of Survey by Wallace Hambrick, Surveyor, dated March 24, 1986.

000378

BAINBRIDGE TERMINAL
LEGAL DESCRIPTION

All that tract or parcel of real property situate, lying and being in Land Lot 373 in the 15th Land District, Decatur County, Georgia and being more particularly described as follows:

Commencing at a point, said point being the Southwest Corner of Land Lot 373 and run thence North 20 degrees 48 minutes 06.0 seconds East, a distance of 1985.80 feet to a point, said point being the POINT OF BEGINNING.

Continuing thence North 12 degrees 24 minutes 07.0 seconds East a distance of 169.42 feet to a point; thence North 07 degrees 57 minutes 50.0 seconds East a distance of 336.50 feet to a point, said point being on the easterly right-of-way line of Georgia State Route 253 (also known as Spring Creek Road); thence along the easterly right-of-way line of Georgia State Route 253 North 45 degrees 53 minutes 00.0 seconds East a distance of 489.44 feet to a point; thence along the easterly right-of-way line of State Route 253 North 45 degrees 53 minutes 00.0 seconds East a distance of 510.16 feet to a point; thence leaving the right of way line of Georgia State Route 253 South 44 degrees 06 minutes 12.0 seconds East a distance of 211.88 feet to a point; thence North 46 degrees 05 minutes 05.0 seconds East a distance of 181.09 feet to a point; thence South 43 degrees 54 minutes 55.0 seconds East a distance of 50.00 feet to a point; thence South 46 degrees 00 minutes 21.0 seconds West a distance of 28.90 feet to a point; thence along a curve to the left, said curve having a radius of 293.31 feet, a central angle of 86 degrees 56 minutes 43.7 seconds and an arc distance of 445.09 feet to a point (chord bearing is South 02 degrees 32 minutes 02.0 seconds West and chord distance is 403.60 feet); thence South 40 degrees 27 minutes 10.4 seconds East a distance of 169.37 feet to a point; thence South 40 degrees 55 minutes 28.0 seconds East a distance of 88.45 feet to a point; thence North 61 degrees 13 minutes 43.0 seconds East a distance of 111.25 feet to a point; thence South 49 degrees 41 minutes 10.7 seconds East a distance of 282.81 feet to a point; thence South 50 degrees 14 minutes 54.0 seconds East a distance of 500.00 feet to a point; thence North 31 degrees 28 minutes 00.0 seconds East a distance of 100.00 feet to a point; thence South 16 degrees 35 minutes 00.0 seconds East a distance of 232.00 feet to a point, said point being on the north bank of the Flint River; thence following the north bank of the Flint River in a southwesterly direction to a point, said point being South 66 degrees 21 minutes 00 seconds West a distance of 240.00 feet from the previous point; thence along the north bank of the Flint River in a southwesterly direction to a point, said point being South 48 degrees 49 minutes 00.0 seconds West a distance of 1953.20 feet from the previous point; thence leaving the north bank of the Flint River North 01 degrees 23 minutes 58.6 seconds East a distance of 301.95 feet to a point; thence South 60 degrees 18 minutes 16.0 seconds West a distance of 106.84 feet to a point; thence North 01 degrees 34 minutes 54.0 seconds East a distance of 468.46 feet to a point; thence North 88 degrees 22 minutes10.0 seconds West a distance of 292.91 feet to a

point; thence North 17 degrees 01 minutes 02 seconds West a distance of 164.91 feet to a point; thence North 01 degrees 45 minutes 13.0 seconds East a distance of 352.92 feet to a point; thence North 04 degrees 30 minutes 11.0 seconds East a distance of 100.51 feet to a point; thence North 12 degrees 24 minutes 07.0 seconds East a distance of 122.04 feet to a point, said point being the POINT OF BEGINNING.

Said herein above described tract or parcel of real property being bounded on the north and west by State Route 253; on the east by lands, now or formally, of AgriumU.S. Inc.; on the south by the Flint River; and on the west by lands, now or formally, of Ergon Terminaling, Inc. Said tract or parcel of real property consisting of and being approximately 64.6 Acres, more or less, and being known as the Georgia Ports Authority's Bainbridge Terminal.

The aforementioned legal description is a composite made from various deeds and plats in the possession of the Georgia Ports Authority and on record with the Office of Clerk of Superior Court, Decatur County, State of Georgia, and is subject to all matters which an actual field survey may disclose. The parcel is also subject to various easements and rights of ways not indicated in this legal description.

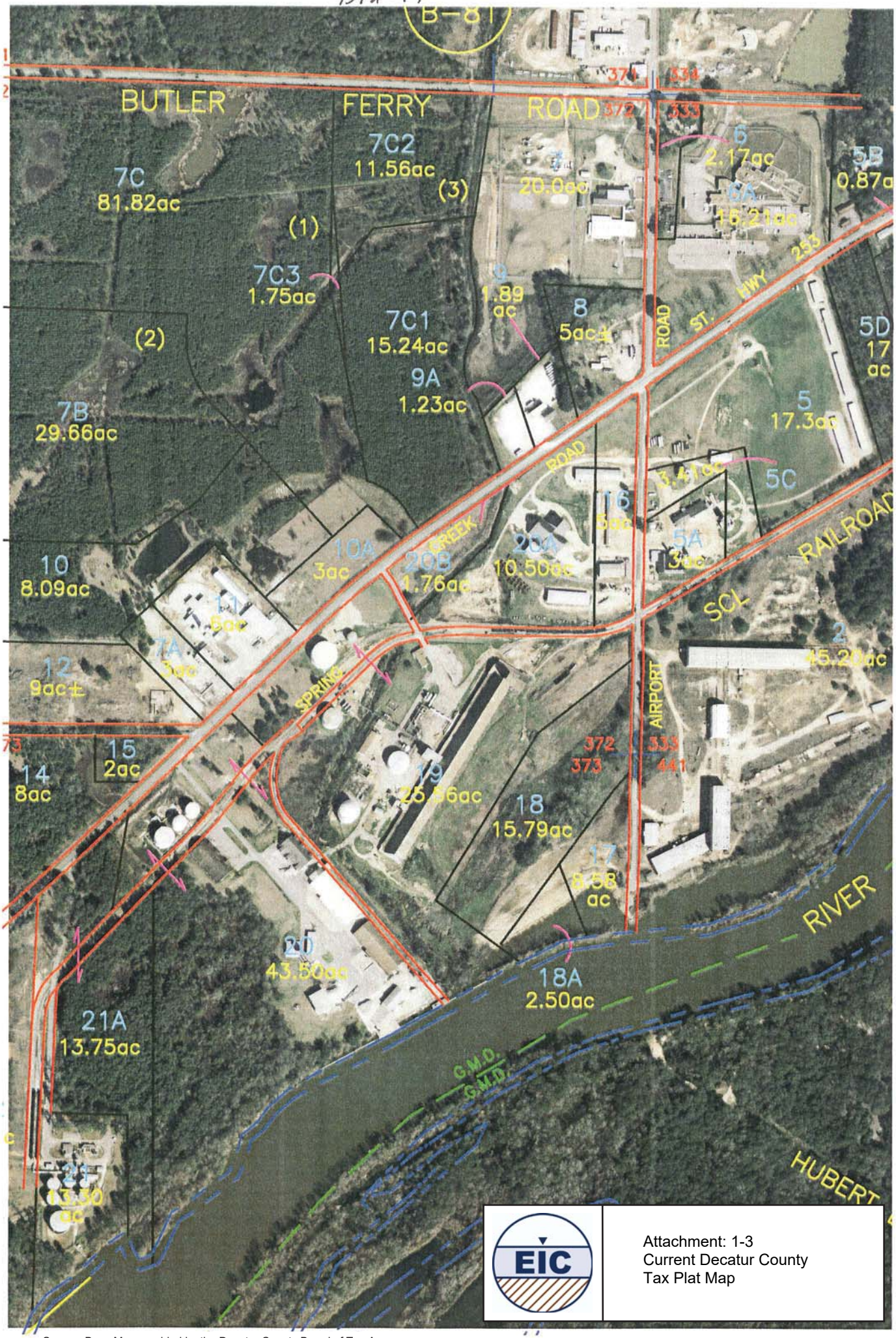
Revised 6/28/12
Source: Georgia Ports Authority

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

COMPLIANCE STATUS REPORT

ATTACHMENT 1-3
CURRENT DECATUR COUNTY TAX PLAT MAP

B42-19



EIC

Attachment: 1-3
Current Decatur County
Tax Plat Map

Source: Base Map provided by the Decatur County Board of Tax Assessors

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

COMPLIANCE STATUS REPORT

ATTACHMENT 1-4
CURRENT SITE PROPERTY AND SURROUNDING PROPERTIES OWNER DATABASE

ATTACHMENT 1-4: Current Site Property and Surrounding Properties Owner Database

Parcel ID	Property Owner	Property Owner Address	Parcel Description*	Lot Size
7A	VALBAY INC	PO BOX 1165, VALDOSTA, GA 31603	A9 847 LL372 15TH LD	3.00 Acres
10A	GEORGIA GULF SULPHUR CO	PO BOX 1165, VALDOSTA, GA 31603	T15 509 LL 372 LD 15	3.00 Acres
11	GEORGIA GULF SULPHUR CO	PO BOX 1165, VALDOSTA, GA 31603	T15 509 LL 372 LD 15 RFC-2	6.00 Acres
12	JACKSON GLAPHREY & ETAL	PO BOX 697, BRINSON, GA 39825	315 643 LL372 LD15 RFC-4	9.00 Acres
14	BARBER THURMAN	254 BARBER ROAD, BRINSON, GA 398525	E14 603 LL373 LD15	8.00 Acres
15	SWEETRIVER LAND LLC	PO BOX 862 BAINBRIDGE, GA 39818	228 163 LL 373 LD 15	2.00 Acres
18	AGRIUM U S INC	4582 S ULSTER ST SUITE 700, DENVER, CO 80237	315 515 LL372-373 15TH LD RFC-60	15.79 Acres
18A	THE CITY OF BAINBRIDGE	PO BOX 158, BAINBRIDGE, GA 39818	109 45 LL373 LD15	2.50 Acres
19	AGRIUM U S INC	4582 S ULSTER ST SUITE 700, DENVER, CO 80237	315 515 LL372-373 LD 15 RFC-60	25.56 Acres
20	GEORGIA PORTS AUTHORITY	132 STATE JUDICIAL BUILDING, ATLANTA, GA 30334	GA PORTS AUTH LL372-3 D15 RFC-1	43.50 Acres
21	ERGON TERMINALING INC	PO BOX 1639, JACKSON, MS 39215	E22 387 LL 373 LD 15 RFC-1	13.30 Acres
21A	GEORGIA PORTS AUTHORITY	132 STATE JUDICIAL BUILDING, ATLANTA, GA 30334	I14 377 LL373 LD15	13.75 Acres

Sources: Decatur County Board of Tax Assessors - as utilized in the 2012 VIRP

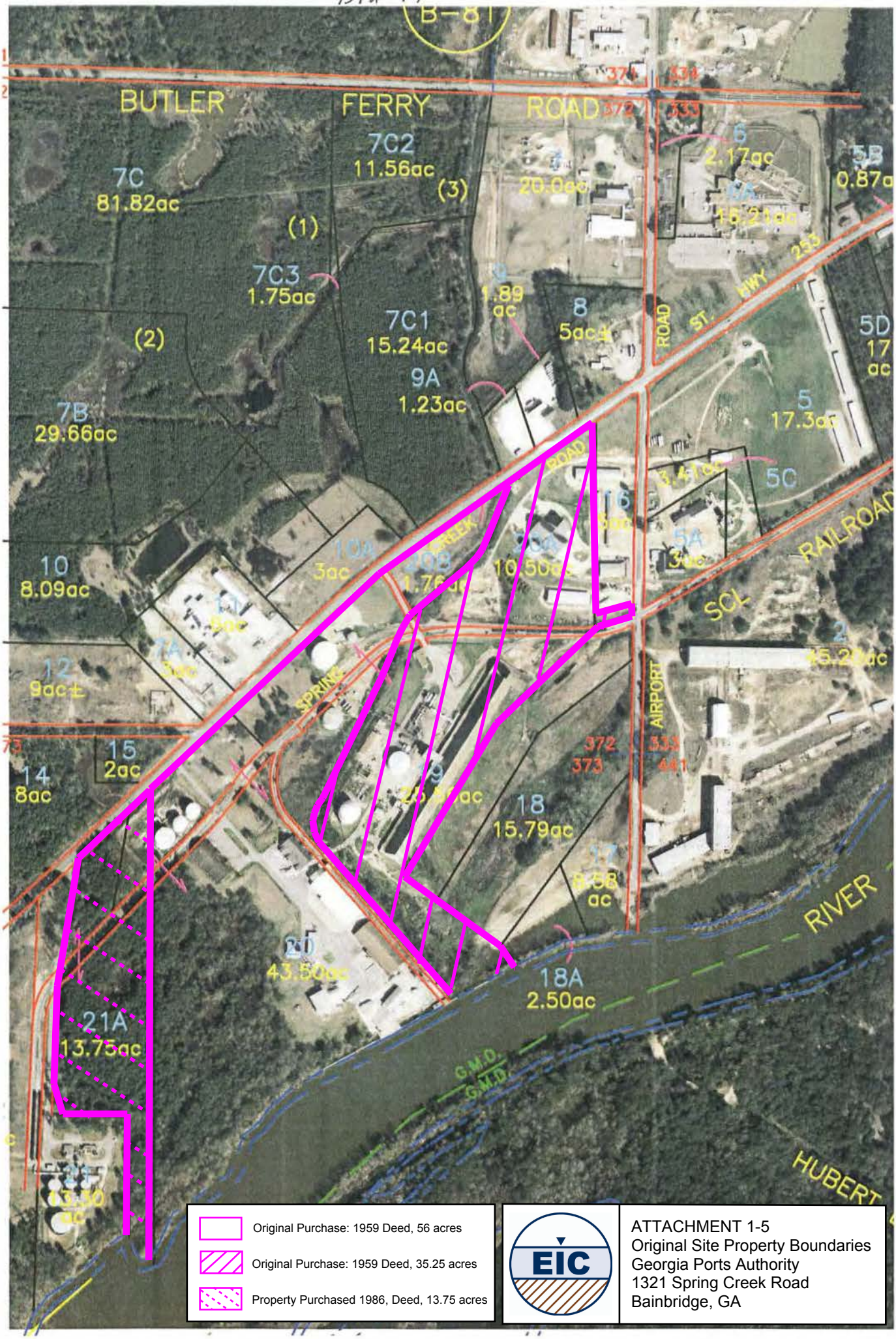
Notes: *Property Description may include Deed Book Page, Land Lot, Land District, and Address of BLDG/House

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

COMPLIANCE STATUS REPORT

ATTACHMENT 1-5
ORIGINAL SITE PROPERTY BOUNDARIES

B42-19

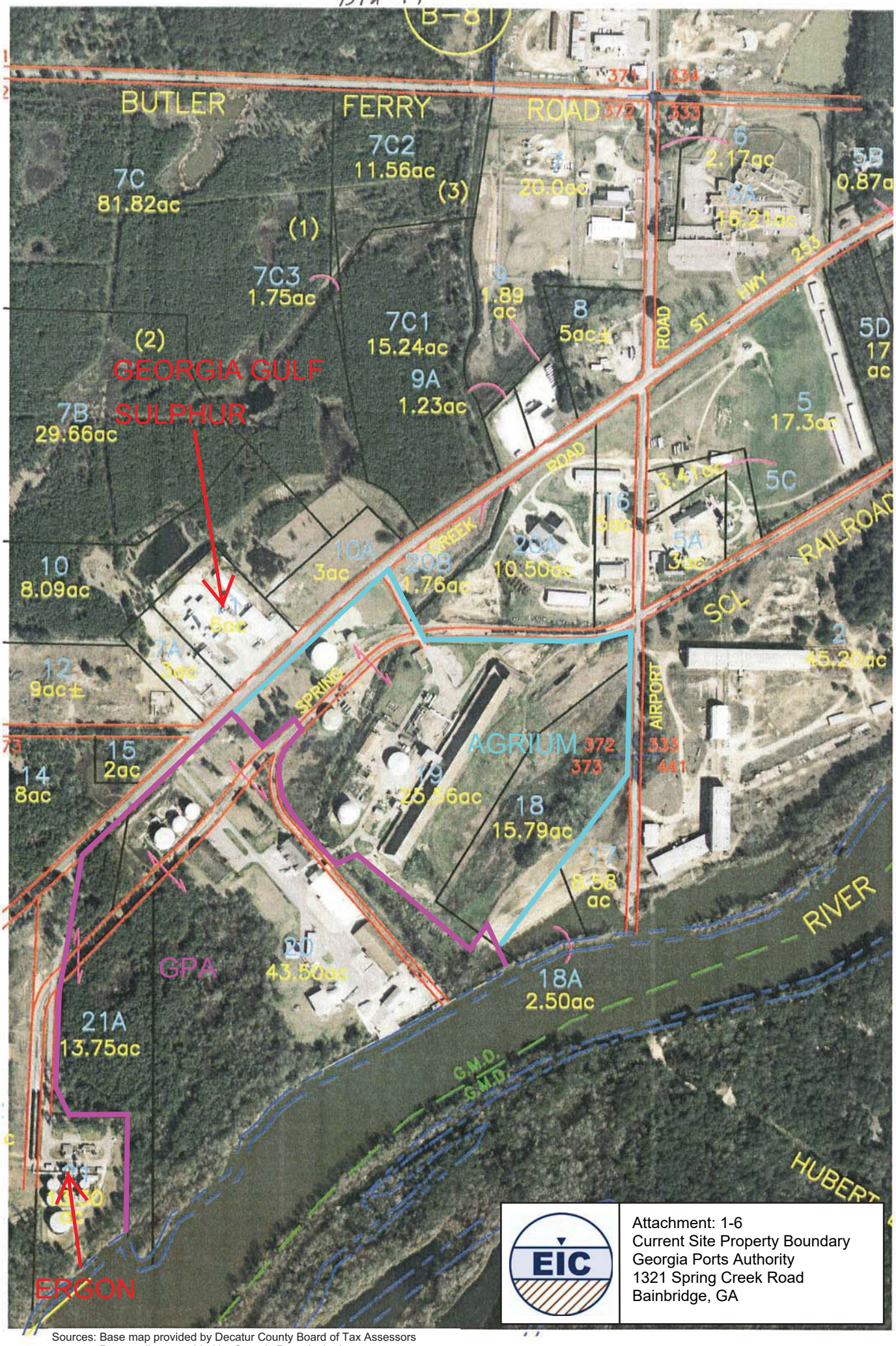


Property Lines provided by Georgia Ports Authority

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

COMPLIANCE STATUS REPORT

ATTACHMENT 1-6
CURRENT SITE PROPERTY BOUNDARIES



EIC

Attachment: 1-6
Current Site Property Boundary
Georgia Ports Authority
1321 Spring Creek Road
Bainbridge, GA

Sources: Base map provided by Decatur County Board of Tax Assessors
Property lines provided by Georgia Ports Authority

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

COMPLIANCE STATUS REPORT

ATTACHMENT 4-1
PUBLISHING NOTICE FOR CSR

Public Notice

Georgia Ports Authority (GPA) Bainbridge Terminal:

1321 Spring Creek Road

Bainbridge, Decatur County, Georgia 39817

Notice of Availability and 30-Day Public Comment Period

The Georgia Environmental Protection Division, Department of Natural Resources, State of Georgia (EPD) has placed this site on the Hazardous Site Inventory pursuant to its authority under the Hazardous Site Response Act and Rules promulgated thereunder. As required by the Rules for Hazardous Site Response, the responsible party for this site was required to investigate the site and submit a compliance status report to EPD summarizing the results of that investigation. EPD is currently reviewing the compliance status report to determine if corrective action is needed for regulated substances that have been released at this site. Before EPD decides whether corrective action is needed, the public has the opportunity to review the compliance status report and provide comments to EPD about the report.

The Compliance Status Report may be viewed and copied at the GPA Bainbridge Terminal and the Decatur County Public Library: 301 S. Monroe Street, Bainbridge, Georgia 39819. Phone: 229-248-2665

A 30-day public comment period begins January 30, 2016. Written and oral comments may be made to:

Dr. Montague McPherson
Georgia Department of Natural Resources
Environmental Protection Division
Land Protection Branch
2 Martin Luther King, Jr. Drive, S.E.
Suite 1054 East Tower
Atlanta, Georgia 30334-9000
Phone: 404-657-8600

For additional Information, please contact:

Mr. Randy Weitman, P.E.
Manager of Engineering Services
Georgia Ports Authority
P.O. Box 2406
Savannah, GA 31402
Phone 912-964-3916

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

COMPLIANCE STATUS REPORT

EXHIBIT A
VIRP APPLICATION

(INCLUDED ON CD)

BHC REMEDIATION, BAINBRIDGE TERMINAL, BAINBRIDGE, GEORGIA

VIRP APPLICATION

July 27, 2012

Submitted To:
GEORGIA ENVIRONMENTAL PROTECTION DIVISION
Hazardous Sites Response Program, Land Protection Branch
Suite 1462 East Tower
2 Martin Luther King Jr. Drive, SE
Atlanta, Georgia 30334

Prepared for:
GEORGIA PORTS AUTHORITY
PO 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

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SECTION

1

1 INTRODUCTION

The Georgia Ports Authority (GPA) owns and operates a barge-terminal in Bainbridge, Georgia. A railroad within the property, that runs parallel to the Spring Creek Road, divides the site into North and South parcels. During a Phase I assessment, conducted in 1993, an engineering firm discovered pesticide contamination at the site. Based on additional investigations, EPD listed the site on the state Hazardous Site Inventory (HSI) in 1994. Subsequently, additional site investigations progressively revealed soil contamination in other areas. In compliance with the Georgia EPD regulations, GPA prepared a corrective action plan (CAP) to address the on-site liabilities.

Initially, GPA understood that 720 cubic yards of contaminated soil required remediation in the North Parcel. Ultimately, however, 4,000 cubic yards of contaminated soil was excavated from the North Parcel and transferred to a local landfill. In 2011, GPA divested the North Parcel. In the South Parcel, additional soil investigations indicated the presence of more pesticide contamination. In an area adjacent to a warehouse, known as the Rock Salt Warehouse area (RSW), located in the South Parcel, soil contamination extended much deeper than original defined. Soil contamination was also detected beneath another warehouse located to the east of the RSW. Additionally, one of several samples collected along the drainage ditch/swale indicated presence of soil contamination. Consequently, excavation and disposal of an vast quantities of soil material is impractical and cost-prohibitive.

Even if all contaminated soils were successfully removed from the entire site, groundwater contamination would remain persistent in both the North and South parcels, requiring groundwater remediation and long-term monitoring. Based on a preliminary investigation, however, it is apparent that the groundwater contamination originated from an off-site source located hydraulically upgradient of GPA's North Parcel.

Considering the prevailing site conditions, GPA has developed an alternative technical approach under the Georgia Voluntary Remediation Program (VRP). The VRP approach entails engineering controls to address soil and groundwater contamination in a more cost effective and timely manner. Once approved, the VRP standards will supersede the CAP requirements. The completed

Voluntary Investigation and Remediation Plan (VIRP) and the application checklist are provided as Attachment A. The following sections address the elements of the VIRP application criteria.

1.1 SITE LOCATION

The Georgia Ports Authority (GPA) Bainbridge Terminal facility (site) is located at 1321 Spring Creek Road in Bainbridge, Decatur County, Georgia. The facility was constructed in 1958 and is located on an approximately 65-acre parcel at the Apalachicola-Chattahoochee-Flint Waterway, or Tri-Rivers System in Decatur County, Georgia.

The facilities at the site consist of a bulkhead used for loading and unloading goods from barges, an office building, a maintenance shed, several warehouses, storage tanks, a railroad spur, and a forested section. Figure 1-1 is a site layout map that illustrates the North and South parcels. Until Agrium purchased a portion of GPA property on July 31, 2011, the North Parcel extended further towards the northeast between Spring Creek road and the railroad to Parcel 20B, currently owned by the City of Bainbridge. Figure 1-2 presents a milestone chart with key terminal activities pertaining to the environmental issues at the site.

GPA has historically utilized the facility to ship and receive a variety of bulk cargo via barge traffic as an economical alternative to other methods of transport in the region. The terminal was historically used for the storage of various agricultural products and commodities. Long- and short-term storage is provided in various buildings which collectively provide approximately 93,000 square feet (9,292 square meters) of covered storage. Currently the facility handles: nitrogen solution, gypsum, ammonium sulfate, urea, cottonseed, and cypress bark mulch. CSX Transportation provides Class I rail service from a railroad spur located at the facility.

1.2 LEGAL DESCRIPTION & TAX PLAT

The available two warranty deeds describing the original 91.25 acres of property purchased on March 18, 1959 and a deed describing an additional purchase of 13.75 acres on July 23, 1986 are located in Attachment B. Attachment B also contains a legal description, prepared by GPA, that describes the extent of the current GPA property. Attachment C is a current Decatur County tax plat map provided to EIC on June 25, 2012 by the Decatur County Board of Tax Assessors office. This map illustrates the parcel numbers and property boundaries of the site and of surrounding properties as currently defined by this office. Attachment D, derived from the tax assessors' office website, is a table listing the current property owners of the site and each parcel adjacent to the site as defined by this office. Attachment E illustrates the original site property boundaries as described in the two 1959 deeds and 1986 deed. According to GPA, in addition to the properties purchased in the attached deeds, GPA has purchased two other properties, had a railroad right-of-way (ROW) transferred to it, and has sold seven portions of its property. EIC was unable to obtain each deed regarding each of these property transfers, however, Attachment F, based on GPA's description of the current property illustrates the current extent of the GPA property (at a total of 64.6 acres, according to GPA's legal description) and of the adjacent Agrium properties. According to GPA, the legal description is a more accurate depiction of the site property than is the county tax plat

map.

Referring to Attachments D and F, the site property itself consists of parcel numbers 20, 21A, and portions of parcels 18 and 19. Also referring to these attachments, the properties immediately surrounding the site are currently defined by Agrium and the City of Bainbridge to the northeast; the Flint River to the southeast; the Ergon Terminal to the west; and opposite of Spring Creek Road to the northwest (from west to east), Barber Thurman (wooded undeveloped), Sweetriver Land, LLC (wooded undeveloped), Jackson Glaphrey and Etal (undeveloped), Valbay, Inc., and Georgia Gulf Sulfur.

1.3 SITE GEOLOGY

The surficial geology of the site consists of unconsolidated alluvial deposits of the Flint River. Figure 1-3 identifies the orientations of two geological cross-sections (Figure 3 of the CAP). Figures 1-4 and 1-5, illustrate the geological cross-sections along A-A' and B-B', (Figures 3A and 3B, respectively, of the CAP). Referring to the cross-sections, it appears that the top of the lower sand unit is located at depths ranging from 8 to 18 feet below ground surface (bgs) except near the Flint River where the sand unit extends to the surface. The depth of the bottom of the sand unit is unknown. The sand unit is overlain by clayey sand or other fill material within the site.

1.4 SITE HYDROGEOLOGY

Referring to the cross sections, the water table of the unconfined aquifer typically occurs from 16 to 24 feet bgs. Based on April 2012 gauging data, the potentiometric surface elevations within the unconfined aquifer of the unconsolidated alluvial deposits ranged from 75.11 feet at MW-17 (in the southern portion of the site near the Flint River) to 78.60 feet at MW-16 (in the northern portion of the site near Spring Creek Road) with a difference of 3.49 feet (CH2M-Hill, 2012). The total depth to the water table in the wells ranged from approximately 16 to 28 feet below top of casing (TOC). Referring to Figure 1-6, that depicts the potentiometric surface, based on current April 2012 gauging data, the groundwater flow is generally towards the south-southeast. Along the bulkhead at the Flint River, the equipotential lines generally parallel the Flint River.

According to the CAP, no slug tests have been performed at the Terminal. As such, the hydraulic conductivity is unknown at this time.

1.5 COC & DELINEATION STANDARDS

Based on a review of the historic site investigations, it is apparent that pesticides are the primary constituents of concern (COC) at the site. The predominant pesticide COC is benzenehexachloride (BHC), also known as hexachlorocyclohexane, composed of isomers, α-BHC, β-BHC, δ-BHC, and γ-BHC (Lindane). High concentrations of BHC isomers have been detected in multiple areas during previous soil sampling events at the site.

Site delineation concentration criteria for pesticides COCs found at the site in soil and groundwater are tabulated in Tables 1-1 and 1-2. Table 1-2 also includes delineation of metal constituents namely lead and chromium. Historical reports indicate the presence of metal constituents in a limited area within the GPA property. These values were based on Type 1 values listed in the Risk Reduction Standards (RRS) tables that were approved by EPD (EPD, 2009) and included in the CAP (CH2M Hill, 2009).

1.5.1 Additional delineation standards

Upon reviewing the draft removal action completion report (RACR) (CH2M Hill, 2011) for the North Parcel, EPD recognized additional compounds that were detected during soil confirmation sampling. These additional compounds were endosulfan sulfate, toxaphene, alpha-chlordane, and gamma-chlordane, and their corresponding Type I RRS values were 1.65 mg/kilogram (mg/Kg) or parts per billion (ppb), 10.9 mg/Kg, 9.2 mg/Kg, and 9.2 mg/Kg, respectively (EPD, 2011). No delineation standards or RRS values were previously computed for these compounds. According to GPA, however, these additional compounds were not handled as part of GPA's terminal operations. Based on the locations where these compounds were found, CH2M Hill attributed the source of the additional compounds to third-party sources.

1.6 RISK REDUCTION STANDARDS

The soil standards included only pesticides, whereas the groundwater standards included pesticides, chromium, and lead. After several iterations, EPD approved Types 1 through 4 RRS standards for both soil and groundwater contamination levels listed in Tables 1-3 and 1-4 (CH2M Hill, 2009). GPA will utilize Type 4 RRS to demonstrate compliance under the VRP.

SECTION

2

2 SITE CONCEPTUAL MODEL

A Site Conceptual Model (SCM), also known as Conceptual Site Model, is a summary of the site conditions as it pertains to a contaminant release. Typically, the model defines release sources, extent of the plume, likely fate and transport mechanisms, potential exposure pathways, and potential receptors that could be impacted. This information serves as an important tool in developing site remedies. The following sections provide a preliminary SCM based on available site data. As additional knowledge is gained, during the implementation of the VIRP, GPA will sequentially refine the SCM.

2.1 RELEASE SOURCES

Previous investigations have identified both potential on-site and off-site sources that have contributed to the soil and groundwater contamination at the site. However, none of the investigations have clearly substantiated the actual source(s) of release(s). The following excerpts about soil and groundwater contamination were derived from various historical reports.

2.1.1 On-site Sources

It appears that GPA received at least one batch of BHC several decades ago. A review of GPA's shipping logs or other historical records is necessary to confirm this event. In the 1960's, an undisclosed location in the northwest portion of the site was reportedly used for the storage of pesticides. During site redevelopment in the early 1970s, paving materials from that location was apparently excavated and transferred to an area located to the southern portion of a warehouse identified as the Rock Salt Warehouse (RSW) in Figure 1-1. Prior to the construction of the RSW in 1988, additional soil from the RSW site leveling operation was also transferred to the same location as paving materials from the former pesticide storage area. The combination of the excavated material from both areas resulted in soil contamination within a soil mound located to the south of the RSW. No records were available to substantiate the transfer events.

Additionally, other customers have utilized GPA's facilities for storage of pesticide material. It is unclear if BHC migrated into soil from these on-site storage areas.

2.1.2 Off-site Sources

From various testimonials, GPA has also learned that other facilities hydraulically upgradient of the GPA site used BHC in manufacturing or in the distribution of pesticide material. MACTEC, the former consulting firm that served GPA in 2003, reviewed two off-site facilities as potential source(s) of groundwater contamination present in the North Parcel. The first facility was identified as Georgia Gulf Sulfur (GGS) that makes sulfur-based pesticide products. Valbay, Inc., a warehouse facility located at the intersection of Spring Creek Road and Mount Olive Church Road, was identified as a second facility.

During its investigation, MACTEC interviewed Mr. Butch Wilson (Manager of Royseter-Clark facility with 37 years of service) and Mr. Artis Rambo (former long-term GPA employee). According to Mr. Wilson, GGS was historically handling pesticides at its plant whereas GPA had only one incidence of pesticide storage. Mr. Rambo corroborated Mr. Wilson's testimony about GGS operations and also stated that the Valbay warehouse did not store any pesticides. EIC was unable to find a comprehensive list of all chemicals used in GGS's operations.

2.1.3 Third-Party Sources

Considering that GPA's site is located in a farmland area, it is also conceivable that other third-party sources could have contributed additional pesticides that are now found on the site. For instance, BHC, toxaphene DDT, aldrin, dieldrin, and other pesticides were historically sprayed on cotton fields to treat Boll Weevil in Georgia (Haney, Lewis, and Lambert, 2009). Also, BHC, Guthion, DDT, and other pesticides were hydraulically sprayed on pine trees in the Southeast to treat coneworms in the 60s (Merkel, 1964). Other experiments were performed in the Southland Experiment Forest located in the general area where the GPA site is located (Kinloch and Stonecypher, 1969). Upon approval of the VIRP, GPA will further review the impact of these potential sources.

2.2 Extent of contamination

2.2.1 Soil Delineation

Based on historical sampling events, pesticide COCs discussed in Section 1.5 were detected in soil samples obtained from both the North and South parcels. Referring to Table 2-1, a total of 14 sampling events have been completed during the period from 1993 through 2012. From these sampling events, a total of 1,468 samples were collected for laboratory analysis from hundreds of soil borings and excavations. These sampling events identified several small hot spots in the North Parcel and three hot spots in the South Parcel.

Referring to the RACR, all hot spots in the North Parcel have been delineated and remediated. Based on additional sampling, the horizontal extents of three hot spots in the South parcel have also been defined (GPA, 2012). For ease of reference, EIC designated these hot spots as three areas of concern (AOC). The first hot spot, designated as AOC-1, is comprised of a relatively large area to the south

of the RSW that has been a focus of extensive investigation since 2009. The second hot spot, designated as AOC-2, is comprised of the subsurface beneath a concrete pad upon which Warehouse No. 3 rests. The third hot spot, designated as AOC-3, is located along the drainage ditch/swale designated.

Figure 2-1 identifies recent sampling locations at AOC-1 in the South Parcel and Figure 2-2 identifies sampling locations in AOC Nos. 3 and 4. Tables 2-2 through 2-4 tabulate the associated sampling data for the three soil AOCs. During the 2011 soil sampling program, the horizontal extent of AOC-1 and AOC-3 were delineated. AOC-2 that lies beneath the Warehouse No. 3 concrete pad, however, is not fully delineated. Nevertheless, in identifying the three AOCs in the South Parcel, GPA has horizontally delineated the soil contamination within the site boundary. According to EPD, the extent of off-site soil contamination to the north, beyond the Spring Creek Road right-of-way remains undefined (EPD, 2011).

Referring to the RACR, the vertical extent of soil contamination in the North Parcel was delineated to below RRS levels since all soil material exceeding the RRS standards have been remediated. In the South Parcel, based on additional soil investigations performed in 2011, GPA determined that the vertical extent of soil contamination at AOC-1 has been delineated except for two small spots located at depths ranging from 21 to 24 feet below grade (Table 2-2). The vertical extent of soil contamination beneath the concrete pad at AOC-2 remains undefined (Table 2-3). At one spot in AOC-3, the vertical extent remains undefined (Table 2-4). No information is available on the vertical extent of offsite soil contamination to the north beyond the Spring Creek Road right-of-way.

2.2.2 Groundwater Delineation

Based on historical sampling events, pesticide COCs discussed in Section 1.5 were detected in groundwater samples obtained from monitoring wells located both in the North and South parcels. Referring to Table 2-5, a total of thirteen groundwater sampling events were completed during the period from 1993 and 2012.

To-date, 24 wells have been installed at the site. During the most recent sampling event in 2012, groundwater samples collected from 16 accessible wells were submitted for laboratory analysis. Of the remainder of the wells, one well was dry, three wells were not located, and four wells were not sampled for unknown reasons during the 2012 sampling event.

In May 2012, GPA transmitted the First Annual Groundwater Monitoring Report in concurrence with the scope defined in the CAP (CH2M Hill, 2012). According to the May 2012 report, the horizontal extent of pesticides exceeding the RRS values in groundwater beneath the site is defined to the east, south, and west. The extent of groundwater contamination to the north, beyond the Spring Creek Road right-of-way remains undefined.

To review the overall extent of groundwater contamination, EIC compiled laboratory analytical data from the three most recent sampling events performed in 2009, 2011, and 2012 (Table 2-6).

Referring to Table 2-6, it is apparent that the primary COCs that exceeded Type 4 RRS were alpha (α)-BHC, beta (β)-BHC, and delta (δ)-BHC isomers. These sampling events provide the greatest number of sampled wells for review, since the existing site wells resulted from a gradual addition of wells over time. Figures 2-1 through 2-9 represent isoconcentration maps for α-BHC, β-BHC, and δ-BHC isomers during the three sampling events. Figures 2-3 through 2-11 illustrate both the delineation and RRS limits of the BHC isomers. Based on these figures, it is apparent that the horizontal extent of BHC isomers has been delineated within the GPA's site boundary. Further investigation, however, is necessary to delineate the off-site sources hydraulically up-gradient of the GPA property.

Dissolved concentrations of α-BHC, β-BHC, and δ-BHC isomers currently meet the established RRSs in the CAP in all but eight wells, namely MW-5A, MW-5D, MW-6, MW-8, MW-10, MW-20, MW-21, and MW-22. Referring to the 2012 groundwater sampling data, the following observations of current groundwater RRS exceedances were noted:

- α-BHC concentrations currently are below the site specific RRS of 0.5 µg/L (ppb) at all wells except at wells MW-5D, MW-6, MW-10, and MW-22.
- β-BHC concentrations currently are below the site specific RRS of 1.6 µg/L at all wells except at wells MW-5A MW-5D, MW-6, MW-8, MW-10, MW-20, MW-21, and MW-22.
- δ-BHC concentrations currently are below the site specific RRS of 0.1 µg/L at all wells except at wells MW-5A MW-5D, MW-6, MW-8, MW-10, MW-20, and MW-22.
- The β-BHC concentration of 33.2 µg/L at MW-22 is currently the highest BHC concentration of the sampled wells.

In subsequent sampling events, defined in Section 4, GPA will further delineate the metal constituents noted in Section 1.5 and additional compounds discussed in Section 1.5.1.

2.3 FATE & TRANSPORT

As discussed in Section 2.1, surface contamination in the North parcel areas could have resulted from on-site sources, off-site sources, or historic pesticide applications in the area. Considering that the peak concentrations of groundwater contamination was detected in wells in the northern portion of the site that is located hydraulically up-gradient of the site, it appears that the groundwater contamination resulted from potential off-site source(s).

The main purpose of the fate and transport evaluation is to assess the migration potential of the released COC in a multimedia setting. Based on such an assessment, it is possible to establish potential exposure levels, critical in establishing risk-based screening and cleanup goals.

Typically, the BHCs identified at the site are subject to the following mechanisms:

- Physical separation of released product into other states of matter due to sorption, solubility and other equilibrium reactions. Considering that BHCs are comprised of solid material, most released material may remain in solid state mixed in with the native soil material.

- Dispersion involving horizontal and vertical spreading of partitioned or leached constituents.
- Diffusion consisting of spreading from concentration gradients.
- Biodegradation by native microorganisms along the migration pathway.
- Other attenuation processes that reduce the concentrations with time and distance.

Based on interviews EIC conducted in August 2010, only one BHC storage event took place at the site in the 1960s. With the exception of potential impact from soil transfer activities that took place prior to 1988 (Refer to Section 2.1.1), no other onsite sources of contamination have been reported.

As discussed in Section 2.7.1, soil leachate potential is minimal. Consequently, there are only three potential transport mechanisms for BHC contamination. The first transport mechanism is the physical separation of the BHC mixing with the soil matrix. The second transport mechanism is the prevailing groundwater contamination that resulted from potential off-site sources. Based on BHC's properties, advection or bulk movement of the soil contamination is not possible. Groundwater contamination is therefore subject to dispersion, diffusion, and biodegradation. A third transport mechanism that could be dust or vapor phase is minimal.

2.4 MIGRATION PATHWAYS

Based on the discussions in Section 2.3, it is apparent that BHC is the primary COC that has a potential to migrate at the GPA site.

2.4.1 BHC Migration Potential

Based on BHC properties, Figure 2-12 identifies three potential COC migration pathways for the α-BHC, β-BHC, and δ-BHC isomers. Typically, surface runoff can carry soil contamination to drainage ditch or swales that ultimately discharge to surface waters. Contaminated sediments deposited in the drainage swales can leach contaminants to surface water. If soil contamination results in leachate, such contamination can reach groundwater.

Typically, dissolved contaminants tend to move with the groundwater flow. Consequently, the peak plume (area of highest concentration) would be subject to a migration consistent with seepage velocity. Depending on the contaminant flux, dissolved contaminants can reach downgradient water wells or discharge to surface water. In reviewing Figures 2-3 through 2-11, representing three of the most recent sampling events, the downgradient edge of the dissolved BHC plume is contained within the GPA property. In fact, the peak plume is actually diminishing over time. According to the CAP, no drinking water wells were found downgradient of the GPA site.

As such, there appears to be no immediate down-gradient receptors of contaminated groundwater adjacent to the site. Further evaluation of the trends of the target COC contaminants will be conducted as described in the projected schedule (Section 5).

2.4.2 Migration Potential of Other COCs

Based on subsequent groundwater sampling events, GPA will evaluate the migration potential of lindane and other COCs discussed in Section 1.5.1.

2.5 POTENTIAL RECEPTORS

2.5.1 Human Health Receptors

According to Agency for Toxic Substance and Disease Registry (ATSDR), humans can be exposed to BHC only through direct contact such as inhalation, ingestion, or dermal contact of BHC contaminated media (ATSDR, 2005). ATSDR also states that BHC has not been produced or used in the United States since 1985. Considering that the only potential BHC storage took place in the 60s and the soil related activities took place in the 80s, vapor phase contamination is likely not persistent in surface soils, eliminating the inhalation hazard. The CAP states, "The alluvial soils and terrace deposits present in the Site are not typically used as sources of drinking water." (CAP). There are no drinking water wells within the GPA property or within .5 to 1 mile from the affected area (HSI Listing) eliminating ingestion hazard. Also, there is no evidence of surface water contamination resulting from the BHC contamination at GPA. Under the proposed action discussed in Section 4, GPA plans to implement engineering controls to eliminate the dermal hazard.

2.5.2 Ecological Receptors

According to ATSDR (2005), BHC in soil, sediments, and water, is broken down to less toxic substances by algae, fungi, and bacteria, over a period of time. However, no studies have been completed to determine potential ecological receptors. Upon approval of the VIRP, GPA will utilize the Georgia Natural Heritage Program (GNHP) or other expert resources to determine if rare, imperiled, and critically imperiled plant or animal species are affected at the site.

2.6 OTHER EXPOSURE PATHWAYS

As discussed in Section 2.4, groundwater is the primary pathway for migration of COCs at this site. Upon approval of the VIRP, any other exposure pathway(s) will be evaluated. GPA will, in particular, evaluate the potential for dermal contact to minimize exposure for terminal personnel, contractors, and visitors.

2.7 EMPIRICAL EVALUATION OF MONITORING DATA

To evaluate the soil leachate potential and to determine the potential source of groundwater contamination, EIC conducted an empirical analysis of soil and groundwater data from historic sampling events. The following subsections provide the results of EIC's evaluation.

2.7.1 Soil Leachate Potential

Considering that the BHC is relatively insoluble in water, leachate potential is minimal at the GPA site. The following three evaluations substantiated this finding.

A. Laboratory Testing Data

Synthetic Precipitation Leaching Procedure (SPLP) test data (GPA, 2012) from soil samples collected at the GPA property indicated that leachate from precipitation does not have a potential to exceed Type 1 RRS levels. TCLP test data (GPA, 2012) indicated similar results.

B. Soil and Groundwater Analytical Results

Typically soil contamination in the vadose zone has a potential to leach contaminants from precipitation events or other driving forces. Such a leachate can migrate through the vadose zone by gravity and ultimately reach groundwater. The resulting contaminant concentrations in the groundwater would be typically based on the contaminant flux in the overlying zones. Although high concentrations of soil contamination were present in the South Parcel for several decades, however, the groundwater contamination is substantially low (refer to Figures 2-3 through 2-11) indicating minimal soil leachate potential. This finding substantiates that the BHC material in the vadose zone is relatively insoluble during normal precipitation events.

C. Onsite Data relative to Offsite Data

To further examine the soil leachate potential, EIC compared onsite soil and groundwater data to offsite data. Given similar hydrogeological conditions as well as similar physical, chemical, and biological conditions in the vadose zone, contamination would be expected to have a similar leachate potential at both locations. EIC therefore compared the vadose zone soil contaminant concentrations to groundwater concentrations at two locations with similar subsurface stratigraphy. The first location was the MW-6 area, within the GPA property in the AOC-1 area, and the second location was the MW-22 area, located hydraulically upgradient of the GPA property to the north of Spring Creek Road.

The deepest soil sample at the MW-22 soil boring was collected from a depth of 10 feet below grade. As such, EIC utilized soil sample data from the sample that most closely represents the same depth in the vicinity of MW-6 in the South Parcel. The water table elevations at MW-6 and MW-22 are 77.27 ft (21.41 ft below TOC) and 77.50 feet (24.79 feet below TOC), respectively (CH2M Hill, 2012).

Referring to Tables 2-6, β-BHC concentration in groundwater in MW-6 was as low as 1.6 ppb although the soil concentrations in the vadose zone at an adjacent soil boring was 14,200 ppb (Sample ID E-16-H-121911-11-12 from Table 2-2) at a depth of 11 to 12 ft bgs. Also, in a soil boring from the adjacent sampling grid the contaminant concentration was significantly higher at 1,580,000 ppb at 10 feet bgs. Meanwhile, the β-BHC concentration in the groundwater at MW-22

(hydraulically upgradient of GPA site) was as high as 33.2 ppb (Table 2-6). Such high groundwater concentration would be expected to result from a proportionately higher soil contamination in the overlying vadose zone at that location. Referring to the soil sampling data from the MW-22 soil boring , however, the β-BHC concentration in the overlying vadose zone was only 4.18 ppb at 10 feet below grade (GPA, 2012).

The striking contrast in soil and groundwater data between the on-site (MW-6) versus hydraulically upgradient off-site location at (MW-22) indicates that high soil contaminant levels in the vadose zone at GPA's south parcel do not equate to higher groundwater concentrations. Consequently, the groundwater contamination beneath the GPA property appears to have originated from a hydraulically upgradient source as discussed in Section 2.7.2 below.

2.7.2 Off-site Source of Groundwater Contamination

Based on the findings discussed in Section 2.7.1 and the plume configuration illustrated in Figure 2-3 through 2-11, a comparatively high concentration of groundwater contamination in MW-22 indicates a potentially upgradient source that is conveying groundwater contamination onto GPA property. During the VIRP program, GPA will further investigate this finding.

2.7.3 Other Driving Forces that can Increase Leachate Potential

While BHC is relatively insoluble in water, the substance is more soluble in solvent or other chemical medium such as those used in the pesticide industry. Any release of such medium has a potential to leach contaminants into lower zones.

2.8 MODEL LIMITATIONS

The preliminary SCM, outlined in Section 2, describes the site condition based on available site data. During the VIRP process, GPA will further calibrate the SCM based on additional findings.

If sufficient data becomes available, a three-dimensional rendering of the contaminant plume(s) can be developed. Considering that the data pertaining to horizontal and vertical delineation were obtained from different monitoring dates, such a rendering was impractical during this VIRP preparation. GPA, however, included two-dimensional renderings of horizontal delineation in Section 2.2.

SECTION

3

3 CURRENT REMEDY

In 2009, GPA retained CH2M Hill to address the site liabilities. Based on the site background material and additional field investigations, CH2M Hill prepared a corrective action plan (CAP) to address benzenehexachloride (BHC) pesticide contamination (CH2M Hill, 2009). To comply with the Risk Reduction Standards (RRS) for soil and groundwater, CH2M Hill proposed the following tasks in the CAP:

- Surface soil excavation, transportation, and off-site disposal.
- Collection of confirmatory soil samples to demonstrate that the regulated substances (contaminants of concern) no longer exceed the applicable Type 4 RRS.
- Use of monitored natural attenuation (MNA) to address residual pesticides in groundwater.
- Collection of groundwater samples (semiannually and annually) until compliance with the applicable RRS for regulated substances in groundwater are achieved.

3.1 SOIL REMEDIATION & CONFIRMATORY SAMPLING

After submitting the CAP in 2009, GPA initiated certain investigatory and remedial activities outlined in the CAP. Initially, GPA understood that 720 cubic yards of contaminated soil required excavation and disposal. During initial excavation, however, progressively additional environmental contamination was discovered that significantly expanded the overall scope of the project. Ultimately, however, 4,000 cubic yards of contaminated soil was excavated from the North Parcel and transferred to a local landfill. GPA also collected confirmatory soil samples from the excavations to demonstrate that residual soils do not contain pesticide contamination in excess of the Type 4 RRS listed in Table 1-3. A recovery action completion report (RACR) that documents the soil excavation was submitted to EPD (CH2M Hill, 2009). In 2011, GPA divested a portion of the North Parcel. The current property boundary is outlined in Attachment F.

In the South Parcel, additional soil investigations revealed pesticide contamination not only at greater depths but in other areas of concern as discussed in Section 2.2.1. In AOC-1, soil contamination extended to depths of up to 24 feet below ground surface. Soil contamination discovered in AOC-2, underneath a concrete slab on which Warehouse No. 3 rests, extended to a

depth of more than 5 feet. In AOC-3, the soil contamination in AOC-3 was found above RRS in one spot at a depth of from 0 to 2 feet. No soil excavations have been performed in the South Parcel.

3.2 ATTENUATION POTENTIAL & PLUME STABILITY

As discussed in Section 2.2.2, the areal extent of groundwater contamination to the North has extended hydraulically upgradient to north of the Spring Creek Road right-of-way. Based on the plume configuration there is a strong evidence of off-site sources that are potentially contributing to the groundwater contamination.

No active groundwater remediation is currently in progress at the site. It is likely, however, that certain natural attenuation may already be occurring at the site. Further evaluation is required to determine the extent of attenuation. Also an evaluation of fluid flow hydrodynamics is essential within the site in general and along the bulkhead.

3.2.1 Attenuation Potential

During the April 2012 sampling event, GPA collected groundwater samples from 19 monitoring wells to evaluate the indicator parameters that identify attenuation potential. Referring to Table 3-1, the samples were analyzed for dissolved oxygen (DO), oxidation reduction potential (ORP), ethane, ethane, methane, manganese, chloride, nitrate, sulfate, and total organic carbon (TOC). Collectively, these results were inconclusive in verifying aerobic or anaerobic biodegradation potential (GPA, 2012). Additional investigation is required to determine the true mechanism that attenuates the pesticide contaminants in the groundwater. Nevertheless, the BHC plume remains stable within the GPA property boundary as discussed in Section 2.2.2.

3.2.2 Plume Mobility & Stability

Typically, dissolved contaminants tend to move with the groundwater flow. Considering the high groundwater seepage velocity for sandy soils found at this site, it is important to observe that the plume has not migrated well beyond the limits of the GPA site. Furthermore, the overall extents of the α-BHC, β-BHC, and δ-BHC plumes are actually receding as illustrated in the sequential maps (Figure 2-3 through 2-11) that cover the period from August 2009 through April 2012. The peak concentration of each isomer is also reducing within the South Parcel. The BHC plume for the three isomers, therefore, appears to be stable and contained within the South Parcel. Upon approval of the VIRP, GPA will conduct field tests to define the aquifer hydraulic characteristics and define the plume stability for the remainder of the COCs that exceed the RRS values.

By contrast, the overall extent of the plume in the North Parcel, especially to north of the Spring Creek Road right-of-way in the North Parcel has expanded as the well network was expanded in a hydraulically upgradient direction. This indicates a strong potential for off-site source(s) of BHC contamination that is contributing the BHC groundwater concentrations.

SECTION

4

4 PROPOSED ACTION

It is clear that BHC isomers are present in both soil and groundwater at the site. While the groundwater plume is reasonable well delineated, the vertical extent of the soil contamination in the South Parcel is partially delineated. Consequently, digging and hauling an infinite quantity of soil material is impractical

4.1 PRACTICAL CONSIDERATIONS

4.1.1 Prevailing Soil Contamination

Following the CAP, GPA remediated soil contamination that exceeded the RRS in the North Parcel. This soil remediation resulted in excavation and transfer of 4,000 cubic yards of contaminated soil from the North Parcel to a local landfill. To fulfill the remainder of the CAP objectives, GPA would be required to excavate substantially greater quantities of soil in the South Parcel. Based on the following site-specific factors, however, it is technically impractical to remediate the soil contamination in the South Parcel:

1. As discussed in Section 2.3, BHC isomers are relatively insoluble. Also as discussed in Sections 2.3 and 2.7.1 empirical data suggests that the soil leachate potential is minimal.
2. Referring to Section 2.7.2, it is likely that a potentially off-site source contributed groundwater contamination found beneath the GPA site.
3. Considering the potential depth of excavation, the structural integrity of various superstructures at the site would be jeopardized.
4. Since excavation and transfer of vast quantities of contaminated soil from a historically GPA-controlled site to a landfill would only transfer the liability to a landfill site creating another potential source. Furthermore construction workers and everyone involved with the transfer of soils will be exposed to multimedia BHC contamination - even if PPE is used to minimize this hazard. Such an action may result in an imminent and substantial danger to human health and the environment.
5. Since, the terminal is an industrial zone and is a fenced-in facility with secure access, exposure to the general public is precluded. Therefore, the contaminated soil material in the South Parcel does not pose an imminent threat to human health and the environment.
6. Even if GPA removed all contaminated soils from the South Parcel, groundwater contamination would remain persistent at the site, requiring long-term cleanup.

4.1.2 Prevailing Groundwater Contamination

Based on the state of the site and the groundwater attenuation mechanisms discussed in Section 3.2, it is clear that the overall extent of the dissolved contamination in the groundwater is actually receding in the South Parcel It is therefore practical to follow the monitored natural attenuation (MNA) approach to address residual pesticides in groundwater. Groundwater monitoring is also essential until compliance with the applicable RRS for COCs in groundwater are achieved.

4.1.3 Remedial Strategy

Based on the preliminary site conceptual model discussed in Section 2 and the practical considerations outlined in Section 4.1, it is clear that the management of soil contamination in the South Parcel using institution controls is the most practical and cost-effective solution. This approach will eliminate the imminent or substantial danger to human health and the environment.

Since the groundwater plume appears to be stable and located within the site boundary, monitored natural attenuation (MNA) is the most practical and cost-effective remedial strategy. GPA will utilize certain performance metrics to verify the effectiveness of MNA as the best remedial strategy. If the BHC trends indicate an unacceptable time frame to reach remedial end points, during MNA implementation, GPA will implement contingency measures.

4.2 PROPOSED ACTION

4.2.1 Management of Contaminated Soils

GPA will manage prevailing soil contamination in the South Parcel using site covenants and engineering controls – eliminating the need for further excavation, avoiding exposure of site workers, visitors, on-site employees, and of the general public to BHC contamination. To implement activity and soil use limitations within AOCs 1 and 2, GPA will complete the following actions:

1. GPA will execute an environmental covenant pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, et seq as institution controls.
2. As engineering controls, GPA will install security fencing around the aerial extent of AOC 1. Figure 4-1 illustrates the proposed fencing alignment.
3. Since contaminated soil in AOC-2 is beneath a concrete slab, potential exposure to visitors is already eliminated. Direct exposure to site workers and employees will be controlled with site covenants discussed in item 5 below.
4. Remove a limited amount of soil from a single hot spot identified in the sediments along the drainage ditch/swale within AOC-3, unless storm water sampling indicates that the surface runoff does not present a risk of BHC migration to surface waters.
5. Site covenants will be utilized eliminate exposure to routine surficial contact as well as exposure to construction workers or underground utility workers.

4.2.2 Monitored Natural Attenuation of Groundwater Contamination

To address the prevailing groundwater contamination discussed in Section 4.1.2, GPA has developed the following conceptual remedial strategy.

- Perform semiannual site-wide groundwater sampling events for COC analysis from wells located both within the BHC isomers foot-print as well as outside this footprint.
- Conduct a well inventory to identify missing wells and inaccessible wells. Repair, replace, or properly abandon unusable wells.
- Utilizing MNA as an interim remedial program, monitor the groundwater contaminants for a period of two years.
- In concurrence with EPD, GPA will select a fate and transport model to evaluate the effectiveness of the MNA program in compliance with site-specific RRS.
- Based on the observed trends, GPA will make further decisions on whether to continue with natural attenuation to reach remedial end points or to evaluate other enhancement measures.
- If enhancement is required, GPA will develop a microcosm test to evaluate the role of facultative anaerobes or other limiting factors. GPA can then implement alternative techniques to reach remedial end points within a period of 3 to 5 years as mandated by the EPD.

4.3 PERFORMANCE METRICS

To determine the effectiveness of the selected remedy, GPA will periodically perform a two-dimensional concentration/time analysis of the data from MNA monitoring and indicator parameters to address the following performance metrics:

- Is the plume stable or shrinking?
- Is there an ongoing source of onsite or off-site contamination that is contributing to the prevailing plume?
- Is the contaminant flux meeting remedial goals and is sustainable?
- Is the prevailing remedy practical and cost-effective?
- Is the projected time frame to reach remedial objectives acceptable?

4.3.1 MNA Monitoring

Available wells within and outside the known contaminant plumes, will be utilized for MNA monitoring during the course of the VRP. Groundwater MNA sampling will be conducted as follows:

1. Samples will be collected from the wells on a quarterly basis during the first year and semiannual basis thereafter.

2. Samples will be collected utilizing established low-flow sampling techniques or appropriate alternative technique approved by EPD consistent with EPA Publication SW846 and EPA Region IV Field Branches Quality System and Technical Procedures (FBQSTP), Groundwater Sampling (SESDPROC-301-R2)(EPA,2011).

4.3.2 Indicator Parameters

In addition to BHC trend analysis, other indicator parameters such as pH, DO, ORP, and other inorganic parameters serve as important metrics in determining the change in site conditions and the effectiveness of the MNA program. As such, GPA will collect groundwater samples at selected intervals to monitor for indicator parameters.

4.3.3 Fate and Transport Model

As specified in EPD's letter dated May 2, 2011, GPA will utilize the site data to demonstrate that natural attenuation is sufficient to achieve compliance with the RRS. In particular, GPA will utilize the U.S.EPA OSWER Directive 9200.4-17P "Use of Monitored Natural Attenuation at Superfund, RCRA Corrective Action, and Underground Storage Tank Sites," as a resource to demonstrate plume stability and attenuation mechanisms.

GPA will conduct a two-dimensional analysis of contaminant trends and indicator parameters trends to demonstrate whether the site is meeting the performance metrics. In addition, GPA will utilize a three-dimensional fate and transport model to evaluate the effect of dispersion, advection, sorption, and biodegradation. If the analysis is insufficient in addressing the performance metrics, GPA will consider statistical analysis to determine the performance metrics. If these tools indicate that the prevailing remedial strategy is unable to meet the performance metrics, contingency tasks will be initiated to develop an appropriate remedy.

4.3.4 Supplemental Data

Depending on the results of the groundwater monitoring program, GPA will consider collecting supplemental data from compound specific isotope analysis (CSIA), enzyme activity probes (EAP), or down-hole implants to demonstrate multiple lines of evidence on rates of attenuation.

4.4 CONTINGENCY MEASURES

Since the groundwater contaminant plume is relatively stable, it appears that bioremediation may be a dominant natural attenuation mechanism at the site. If the performance metrics indicate that in-situ bioremediation alone is unable to attenuate the dissolved BHC isomers within a reasonable time frame, GPA will conduct a microcosm test to verify if enhancement is feasible.

If enhancement is unfeasible and the contaminant plume approaches the property boundary, GPA will develop an alternative remedial strategy for EPD's approval. If a practical cost-effective solution is unavailable, GPA will update the covenants to include groundwater use restrictions.

As discussed in Sections 2.7.2 and 3.2, there is strong evidence that an upgradient off-site or third-party source may have contributed to the prevailing contamination at the site. Upon confirmation of such source(s), GPA will evaluate cost reimbursement and/or transfer of environmental liabilities to the responsible parties.

4.5 PROJECT CLOSURE

Upon completion of remedial activities, GPA will submit to the EPD a CSR establishing that the remedial goals were reached as per the VRP, and certify that the property is in compliance with the remedial standards. GPA understands that, at any time before the CSR is submitted, the EPD can terminate GPA's enrollment in the VRP, if the EPD determines that GPA failed to properly follow the Voluntary Remediation Plan requirements, or, that continued enrollment will lead to an "imminent or substantial danger to human health and the environment." If the EPD determines that the CSR is compliant with the "provisions, purposes, standards, and policies" of the VRP, the EPD will deem the site to be compliant with groundwater RRS.

SECTION

5

5 SCOPE & SCHEDULE

GPA will complete the proposed actions in a 5-step project schedule. Figure 5-1 presents a Gantt Chart for GPA's Projected Schedule. The following sections outline the key tasks.

5.1 STEP 1 – MNA CALIBRATION

Within the first 12 months of participation in the program, GPA will conduct the following:

a. Complete horizontal delineation of all COCs (discussed in Section 1.5) within the GPA site.
b. Conduct a well inventory to identify missing wells and inaccessible wells. Repair, replace, or properly abandon unusable wells.
c. Further evaluate the off-site and third party source(s) of contamination contributory to the prevailing plume at GPA.
d. Collect groundwater samples on a quarterly basis to evaluate MNA potential.
e. Conduct field tests to define the aquifer hydraulic characteristics.
f. Complete an ecological receptor investigation. Utilize the Georgia Natural Heritage Program (GNHP) or other expert resources to determine if rare, imperiled, and critically imperiled plant or animal species are affected at the site.
g. Update the SCM, finalize remediation plan, and provide a preliminary cost estimate for the implementation of remediation.
h. Submit semi-annual reports to the EPD following the VRP reporting requirements.
i. Update the Projected Milestone Schedule.

5.2 STEP 2 – MNA TREND ANALYSIS

Within the first 24 months of participation in the program, GPA will conduct the following:

a. Define the plume characteristics for the remainder of the COCs listed in Section 1.5.
b. Utilizing the MNA monitoring data, evaluate trends to determine if the COCs are progressively reducing such that the RRS will be met in a reasonable time frame.
c. In concurrence with EPD, select a fate and transport model to evaluate compliance with site-specific RRS.

d. If required, collect supplemental data to demonstrate multiple lines of evidence on rates of attenuation.
e. Increase the frequency of groundwater sampling program to semi-annual basis to monitor MNA progress.

5.3 STEP 3 – MNA CONFIRMATION

Within the first 30 months of participation in the program, GPA will conduct the following:

a. Update the site conceptual model with information gained in Steps 1 and 2.
b. If MNA appears unfeasible in meeting projected remedial goals, conduct a microcosm test to determine enhancements to increase the biodegradation potential of COCs. The results of the microcosm test may also lead to other alternative remedial technologies to reach remedial goals.
c. Finalize the remediation plan.
d. Provide a preliminary cost estimate for implementing remediation and/or contingencies and associated tasks.

5.4 STEP 4 – MANAGEMENT OF CONTAMINATED SOILS

Within 36 months of participation in the program, GPA will conduct the following for management of contaminated soils.

a. Prepare a plan for long-term management of contaminated soils.
b. Install security fencing around AOCs 1 and 2.
c. Post signs on the fencing to warn visitors, contractors, and site workers of exposure risk within the fencing.
d. Develop a Hazard Communication Program for GPA's on-site workers, contractors, and visitors for notification of potential environmental hazards and exclusion areas.
e. Implement annual HAZCOM program and train all responsible GPA employees.
f. Prepare a Soil Remediation Work Plan for addressing the hot spot identified in AOC-3.
g. Conduct Drainage Swale/Ditch Remediation (assume 1,500 cu.yds).
h. For EPD review and approval, prepare an environmental covenant for institutional controls of contaminated soil.

5.5 STEP 5 - VRP CLOSURE

Within the first 60 months of participation in the program, GPA will conduct the following:

a. Submit a CSR with mandatory certifications.
b. Initiate a post-closure monitoring program.

SECTION

6

6 REFERENCES

Agency for Toxic Substances and Disease Registery (ATSDR), 2005. *Public Health Statement Hexachlorocyclohexane, CAS # 608-73-1*, Department Of Health And Human Services, Public Health Service, Agency for Toxic Substances and Disease Registry, August 2005.

CH2M Hill, 2009. *Corrective Action Plan for the Bainbridge Terminal, Hazardous Site Inventory Number 10071.* Bainbridge, Georgia, November 2009.

CH2M Hill, 2011a. *Draft Removal Action Completion Report For the Northern and MW20 Areas, Georgia Ports Authority, Bainbridge Terminal*, Bainbridge, Georgia, January 2011.

CH2M Hill, 2011b. *Technical Memorandum: Additional Soil Investigation at the Bainbridge Terminal,* Bainbridge, Georgia, March 2011.

CH2M Hill, 2012. *First Annual Groundwater Monitoring Report, Georgia Ports Authority, Bainbridge Terminal*, Bainbridge, Georgia, May 17, 2012.

Environmental Protection Division (EPD), 2009. *Risk Reduction Standards Approval, Georgia Ports Authority - Bainbridge Terminal, Bainbridge, Decatur County, Georgia, HSI#10071*, September 24, 2009.

Environmental Protection Division (EPD), 2011. *Letter from EPD to GPA Bainbridge Terminal, Bainbridge, Georgia, HSI#10071*, Atlanta, Georgia, May 2, 2011.

Georgia Ports Authority (GPA), 2012. *Personal Communications on Additional Soil Investigation*, Savannah, Georgia, June 1, 2012.

Haney, P. B. , Lewis, W. J., and Lambert, W. R., 2009, *Cotton Production and the Boll Weevil in Georgia: History, Cost of Control, and Benefits of Eradication*, Research Bulletin Number 428, The Georgia Agricultural Experiment Stations, College of Agricultural and environmental Sciences, The University of Georgia, Athens, Georgia, March 2009.

Kinloch, B.B. Jr., and Stonecypher, R.W., 1969, *Genetic Variation in Susceptibility to Fusiform Rust in Seedlings from a Wild Population of Loblolly Pine*, Phytopathology, Vol. 59, No. 9, 1246-1255, September 1969.

Merkel, E.P. *Hydraulic Spray Applications of Insecticides for the Control of Slash Pine Cone and Seed Insects*, Southeastern Forest Experiment Station, Asheville, North Carolina, May 1964.

BHC REMEDIATION, BAINBRIDGE TERMINAL, BAINBRIDGE, GEORGIA

VIRP APPLICATION

TABLES

Table 1-1: Soil Delineation Concentration Criteria

Constituents	CAS No.	Concentration, (µg/kg)*
alpha-BHC	319-84-6	660
beta-BHC	319-85-7	660
delta-BHC	319-86-8	10
gamma-BHC	56-89-9	660
DDD	72-54-8	660
DDE	72-55-9	660
DDT	50-29-3	660
Aldrin	309-00-2	660

*** Values Derived from Type 1 values listed in Table 1-3**

Note:

BHC = benzenehexachloride
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
RRS = Risk Reduction Standards
µg/kg = micrograms per Kilogram

Table 1-2: Groundwater Delineation Concentration Criteria

Constituents	CAS No.	Concentration, (µg/L)*
alpha-BHC	319-84-6	0.1
beta-BHC	319-85-7	0.1
delta-BHC	319-86-8	0.1
gamma-BHC	56-89-9	0.2
DDD	72-54-8	0.1
DDE	72-55-9	0.1
DDT	50-29-3	0.1
Aldrin	309-00-2	0.1
Chromium	18540-29-9	100
Lead	7439-92-1	20

*** Values Derived from Type 1 values listed in Table 1-4**

Note:

BHC = benzenehexachloride
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
RRS = Risk Reduction Standards
µg/L = micrograms per liter

Table 1-3: Current Risk Reduction Standards (RRS) for Soil (CH2M Hill, 2009)

Constituents	CAS No.	Soil, mg/kg		Soil, mg/kg	
		Residential		Non-Residential	
		Type 1	Type 2	Type 3	Type 4
alpha-BHC	319-84-6	**0.66**	0.11	**0.66**	0.35
beta-BHC	319-85-7	0.66	**0.94**	0.66	**3.1**
delta-BHC	319-86-8	0.01	**0.10**	0.01	**0.10**
gamma-BHC	56-89-9	0.66	**3.5**	0.66	**12**
DDD	72-54-8	0.66	**3.2**	0.66	**11**
DDE	72-55-9	0.66	**2.3**	0.66	**7.7**
DDT	50-29-3	0.66	**3.3**	0.66	**11**
Aldrin	309-00-2	**0.66**	0.032	**0.66**	0.11

Note:

Applicable RRS Standards are in bold and highlighted
BHC = benzenehexachloride
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
RRS = Risk Reduction Standards
mg/kg = milligrams per Kilogram

Table 1-4: Current Risk Reduction Standards (RRS) for Groundwater (CH2M Hill, 2009)

Constituents	CAS No.	Ground Water, mg/L		Ground Water, mg/L	
		Residential		Non-Residential	
		Type 1	Type 2	Type 3	Type 4
alpha-BHC	319-84-6	0.0001	0.0001	0.0001	**0.0005**
beta-BHC	319-85-7	0.0001	0.0005	0.0001	**0.0016**
delta-BHC	319-86-8	0.0001	0.0001	0.0001	**0.0001**
gamma-BHC	56-89-9	0.0002	0.0008	0.0002	**0.0026**
DDD	72-54-8	0.0001	0.0035	0.0001	**0.0120**
DDE	72-55-9	0.0001	0.0025	0.0001	**0.0084**
DDT	50-29-3	0.0001	0.0025	0.0001	**0.0084**
Aldrin	309-00-2	0.0001	0.0001	0.0001	**0.0002**
Chromium	18540-29-9	0.1000	0.0470	0.1000	**0.3100**
Lead	7439-92-1	0.0200	0.0015	0.0200	**0.0150**

Note:

Applicable RRS Standards are in bold and highlighted
BHC = benzenehexachloride
DDD = dichlorodiphenyldichloroethane
DDE = dichlorodiphenyldichloroethylene
DDT = dichlorodiphenyltrichloroethane
RRS = Risk Reduction Standards
mg/L = milligrams per Liter

Table 2-1 - Historic Soil Sampling Events at GPA Bainbridge Terminal Site

Sampling Entity	Month/Year Samples Collected	Source	# of Samples	Site Area
CH2M Hill	Jun-93	1999 CSR	7	South
SM & E	Nov-93	1999 CSR	3	South of RSW (TCLP samples)
SM & E	Nov-93	2000 CSR	10	South: Immediately behind RSW
Law	Aug-99	1999 CSR	26	North & South
Law	Sep-99	1999 CSR	16	South: E/W of RSW
Law	Jul-01	Revised 1999 CSR	11	South: warehouses, railroad spur, N,S,& E of RSW
Law	Apr-02	Addendum to 1999 CSR	2	North
MACTEC (Formerly Law)	Jun-03	2nd Addendum to 1999 CSR	2	South: N & E of RSW, Agrium Property (E of Terminal)
CH2M Hill	Jun-09	2009 Draft CAP	66	North & South
CH2M Hill	Jul-09	2010 Draft CAP	56	North & South
CH2M Hill	Additional 2009 Samples	Data Summary Table 2-7	56	North
CH2M Hill	2010	Data Summary Tables 2-8 through 2-10	827	North & South
CH2M Hill	2011	RACR	247	Northern and MW-20 Areas
CH2M Hill	2011	Additional Soil Investigation	139	RSW Area
		TOTAL	**1468**	

CSR= Compliance Status Report
RSW= Rock Salt Warehouse
TCLP= Toxicity Characteristic Leaching Procedure
CAP = Corrective Action Plan

TABLE 2-2 (GPA, 2012)

Soil Pesticide Data Summary - Rock Salt Warehouse

Additional Soil Investigation

Georgia Ports Authority, Bainbridge Terminal

Sample Location	Sample Identification	Sample Depth (ft)	Sample Date	4,4'DDD	4,4'DDE	4,4'-DDT	Aldrin	Dieldrin	Endsulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Endrin Ketone	Heptchlor	Heptachlor Epoxide	Methoxychlor	Toxaphene	alpha-BHC	alpha-Chlordane	beta-BHC	delta-BHC	gamma-BHC (Lindane)	gamma-Chlordane
Proposed Site-Specific RRS Values (ug/kg):				***11,000***	***7,700***	***11,000***	***660***												***660***		***3,100***	***100***	***12,000***	
E-16 B	E16-B-121411-8-9	8 - 9	12/14/2011	4.08 U	4.08 U	4.08 U	2.04 U	4.08 U	2.04 U	4.08 U	4.08 U	4.08 U	4.08 U	4.08 U	2.04 U	2.04 U	20.4 U	204 U	13.8 B	2.04 U	**8.61 =**	2.04 U	**0.896 J**	2.04 U
E-16 BNW10	E-16-BNW10-122811-0-2	0 - 2	12/28/2011	178 U	178 U	178 U	89 U	178 U	89 U	178 U	178 U	178 U	178 U	178 U	89 U	89 U	890 U	8900 U	**109 =**	89 U	**153 J**	89 U	89 U	89 U
E-16 BNW10	E-16-BNW10-122811-3-4	3 - 4	12/28/2011	45.1 U	45.1 U	45.1 U	22.6 U	45.1 U	22.6 U	45.1 U	45.1 U	45.1 U	45.1 U	45.1 U	22.6 U	22.6 U	226 U	2260 U	**18.1 J**	22.6 U	**8.19 J**	22.6 U	22.6 U	22.6 U
E-16 BNW10	E-16-BNW10-122811-3-4 FD	3 - 4	12/28/2011	45.3 U	45.3 U	45.3 U	22.6 U	45.3 U	22.6 U	45.3 U	45.3 U	45.3 U	45.3 U	45.3 U	22.6 U	22.6 U	226 U	2260 U	**3.96 J**	22.6 U	45.3 U	22.6 U	22.6 U	22.6 U
E-16 C	E16-C-121411-8-9	8 - 9	12/14/2011	4.33 U	4.33 U	4.33 U	2.17 U	4.33 U	2.17 U	4.33 U	4.33 U	4.33 U	4.33 U	4.33 U	2.17 U	2.17 U	21.7 U	217 U	2.52 B	2.17 U	**26.3 =**	**6.32 =**	**1.29 J**	2.17 U
E-16 CNW15	E-16-CNW15-122811-0-2	0 - 2	12/28/2011	2280 U	2280 U	2280 U	1140 U	2280 U	1140 U	2280 U	2280 U	2280 U	2280 U	2280 U	1140 U	1140 U	11400 U	114000 U	**319 J**	1140 U	**10600 =**	1140 U	1140 U	1140 U
E-16 CNW15	E-16-CNW15-122811-3-4	3 - 4	12/28/2011	44.9 U	44.9 U	44.9 U	22.5 U	44.9 U	22.5 U	44.9 U	44.9 U	44.9 U	44.9 U	44.9 U	22.5 U	22.5 U	225 U	2250 U	**37.7 =**	22.5 U	**118 =**	22.5 U	22.5 U	22.5 U
E-16 CNW15	E-16-CNW15-122811-3-4 FD	3 - 4	12/28/2011	44.6 U	44.6 U	44.6 U	22.3 U	44.6 U	22.3 U	44.6 U	44.6 U	44.6 U	44.6 U	44.6 U	22.3 U	22.3 U	223 U	2230 U	**6.69 J**	22.3 U	**147 =**	22.3 U	22.3 U	22.3 U
E-16 D	E16-D-121411-3-4	3 - 4	12/14/2011	179 U	179 U	179 U	89.3 U	179 U	89.3 U	179 U	179 U	179 U	179 U	179 U	89.3 U	89.3 U	893 U	8930 U	1100 B	89.3 U	**323 =**	**88.2 J**	**71.6 J**	89.3 U
E-16 D	E16-D-121411-4-5	4 - 5	12/14/2011	184 U	184 U	184 U	91.9 U	184 U	91.9 U	184 U	184 U	184 U	184 U	184 U	91.9 U	91.9 U	919 U	9190 U	38.8 JB	91.9 U	**1240 =**	**47.4 J**	**13.9 J**	91.9 U
E-16 D	E16-D-121411-5-6	5 - 6	12/14/2011	188 U	188 U	188 U	93.8 U	188 U	93.8 U	188 U	188 U	188 U	188 U	188 U	93.8 U	93.8 U	938 U	9380 U	**7220 =**	93.8 U	**746 =**	**128 =**	**264 =**	93.8 U
E-16 D	E16-D-121411-9-10	9 - 10	12/14/2011	454 U	454 U	454 U	227 U	454 U	227 U	454 U	454 U	454 U	454 U	454 U	227 U	227 U	2270 U	22700 U	3660 B	227 U	**493 =**	**136 J**	**115 J**	227 U
E-16 D	E16-D-121411-9-10FD	9 - 10	12/14/2011	43.6 U	43.6 U	**5.67 J**	21.8 U	43.6 U	21.8 U	43.6 U	43.6 U	43.6 U	43.6 U	43.6 U	21.8 U	21.8 U	218 U	2180 U	**179 B**	21.8 U	**221 =**	**93.9 =**	**31.2 =**	21.8 U
E-16 DNW5	E-16-DNW5-122011-0-2	0 - 2	12/20/2011	**13.6 J**	**16.8 J**	**83.1 J**	88.2 U	176 U	88.2 U	176 U	176 U	176 U	176 U	176 U	88.2 U	88.2 U	882 U	8820 U	**235 =**	88.2 U	**1790 =**	**104 =**	**60.3 J**	88.2 U
E-16 DNW5	E-16-DNW5-122011-3-4	3 - 4	12/20/2011	45.6 U	45.6 U	45.6 U	22.8 U	45.6 U	22.8 U	45.6 U	45.6 U	45.6 U	45.6 U	45.6 U	22.8 U	22.8 U	228 U	2280 U	**3.31 J**	22.8 U	**69.9 =**	**6.85 J**	22.8 U	22.8 U
E-16 DNW5	E-16-DNW5-122011-3-4 FD	3 - 4	12/20/2011	45.6 U	45.6 U	45.6 U	22.8 U	45.6 U	22.8 U	45.6 U	45.6 U	45.6 U	45.6 U	45.6 U	22.8 U	22.8 U	228 U	2280 U	22.8 U	22.8 U	**59.1 =**	22.8 U	22.8 U	22.8 U
E-16 DNW10	E-16-DNW10-122011-0-2	0 - 2	12/20/2011	180 U	180 U	**20.9 J**	90.2 U	180 U	90.2 U	180 U	180 U	180 U	180 U	180 U	90.2 U	90.2 U	902 U	9020 U	**85.5 J**	90.2 U	**1090 =**	**27.2 J**	**22.1 J**	90.2 U
E-16 DNW10	E-16-DNW10-122011-3-4	3 - 4	12/20/2011	46.1 U	46.1 U	46.1 U	23 U	46.1 U	23 U	46.1 U	46.1 U	46.1 U	46.1 U	46.1 U	23 U	23 U	230 U	2300 U	**62 =**	23 U	**102 =**	23 U	**7.96 J**	23 U
E-16 ENW15	E-16-ENW15-122811-0-2	0 - 2	12/28/2011	177 U	177 U	**25.4 J**	88.3 U	177 U	88.3 U	177 U	177 U	177 U	177 U	177 U	88.3 U	88.3 U	883 U	8830 U	**143 =**	88.3 U	**556 =**	**15.1 J**	88.3 U	88.3 U
E-16 ENW15	E-16-ENW15-122811-3-4	3 - 4	12/28/2011	45 U	45 U	45 U	22.5 U	45 U	22.5 U	45 U	45 U	45 U	45 U	45 U	22.5 U	22.5 U	225 U	2250 U	**5.53 J**	22.5 U	**30.5 J**	22.5 U	22.5 U	22.5 U
E-16 F	E16-F-121411-4-5	4 - 5	12/14/2011	176 U	176 U	176 U	88.2 U	176 U	88.2 U	176 U	**12 J**	176 U	**16.4 J**	176 U	88.2 U	88.2 U	33.1 J	8820 U	**255 =**	88.2 U	**804 =**	**223 =**	**178 =**	88.2 U
E-16 F	E16-F-121411-8-9	8 - 9	12/14/2011	4.18 U	4.18 U	4.18 U	2.09 U	4.18 U	2.09 U	4.18 U	4.18 U	4.18 U	4.18 U	4.18 U	2.09 U	2.09 U	20.9 U	209 U	**1.32 J**	2.09 U	**8.24 =**	**8.98 =**	**1.36 J**	2.09 U
E-16 H	E-16-H-121911-11-12	11 - 12	12/19/2011	9320 U	9320 U	9320 U	4660 U	9320 U	4660 U	9320 U	9320 U	9320 U	9320 U	9320 U	4660 U	4660 U	46600 U	466000 U	**72000 =**	4660 U	**14200 =**	**7440 =**	**13000 =**	4660 U
E-16 H	E-16-H-121911-16-17	16 - 17	12/19/2011	21700 U	21700 U	21700 U	10800 U	21700 U	10800 U	21700 U	21700 U	21700 U	21700 U	21700 U	10800 U	10800 U	108000 U	1080000 U	**174000 =**	10800 U	**21700 =**	**9330 J**	**13000 =**	10800 U
E-16 H	E-16-H-121911-20-21	20 - 21	12/19/2011	1690 U	1690 U	1690 U	845 U	1690 U	845 U	1690 U	1690 U	1690 U	1690 U	1690 U	845 U	845 U	8450 U	84500 U	**1380 =**	845 U	**2540 =**	**1230 =**	**1380 =**	845 U
E-16 H	E-16-H-121911-22-23	22 - 23	12/19/2011	4120 U	4120 U	4120 U	2060 U	4120 U	2060 U	4120 U	4120 U	4120 U	4120 U	4120 U	2060 U	2060 U	20600 U	206000 U	**34300 =**	2060 U	**4670 =**	**3830 =**	**7760 =**	2060 U
E-16 H	E-16-H-121911-23-24	23 - 24	12/19/2011	4.17 U	4.17 U	4.17 U	2.09 U	4.17 U	2.09 U	4.17 U	4.17 U	4.17 U	4.17 U	4.17 U	2.09 U	2.09 U	20.9 U	209 U	**6570 =**	2.09 U	**1600 =**	**908 =**	**854 =**	2.09 U
E-16 J	E16-J-121411-3-4	3 - 4	12/14/2011	22200 U	22200 U	22200 U	11100 U	22200 U	11100 U	22200 U	22200 U	22200 U	22200 U	22200 U	11100 U	11100 U	111000 U	1110000 U	90600 B	11100 U	**23200 =**	**3520 J**	**5240 J**	11100 U
E-16 J	E16-J-121411-6-7	6 - 7	12/14/2011	924 U	924 U	924 U	462 U	924 U	462 U	924 U	924 U	924 U	924 U	924 U	462 U	462 U	4620 U	46200 U	4080 B	462 U	**1010 =**	**2970 =**	**2090 =**	462 U
E-16 J	E16-J-121411-9-10	9 - 10	12/14/2011	46 U	46 U	46 U	23 U	46 U	23 U	46 U	46 U	46 U	46 U	46 U	23 U	23 U	230 U	2300 U	**18.5 JB**	23 U	**6.62 J**	**15.2 J**	**9.42 J**	23 U
E-16 K	E16-K-121511-5-6	5 - 6	12/15/2011	4720 U	4720 U	4720 U	2360 U	4720 U	2360 U	4720 U	4720 U	4720 U	4720 U	4720 U	2360 U	2360 U	23600 U	236000 U	**46000 =**	2360 U	**8920 =**	**1830 J**	**3660 =**	2360 U
E-16 K	E16-K-121511-7-8	7 - 8	12/15/2011	89.9 U	89.9 U	89.9 U	45 U	89.9 U	45 U	89.9 U	89.9 U	89.9 U	89.9 U	89.9 U	45 U	45 U	450 U	4500 U	**34.4 J**	45 U	**80.2 J**	45 U	45 U	45 U
E-16 K	E16-K-121511-10-11	10 - 11	12/15/2011	2280 U	2280 U	2280 U	1140 U	2280 U	1140 U	2280 U	2280 U	2280 U	2280 U	2280 U	1140 U	1140 U	11400 U	114000 U	**14500 =**	1140 U	**2920 =**	**1140 =**	**1140 =**	1140 U
E-16 K	E16-K-121511-11-12	11 - 12	12/15/2011	171 U	171 U	171 U	85.6 U	171 U	85.6 U	171 U	171 U	171 U	171 U	171 U	85.6 U	85.6 U	856 U	8560 U	**2260 =**	85.6 U	**649 =**	**118 =**	**178 =**	85.6 U
E-16 K	E16-K-121511-13-14	13 - 14	12/15/2011	4.09 U	4.09 U	4.09 U	2.04 U	4.09 U	2.04 U	4.09 U	4.09 U	4.09 U	4.09 U	4.09 U	2.04 U	2.04 U	20.4 U	204 U	**0.87 J**	2.04 U	**5.57 =**	2.04 U	2.04 U	2.04 U
E-16 K	E16-K-121511-14-15	14 - 15	12/15/2011	4.05 U	4.05 U	4.05 U	2.03 U	4.05 U	2.03 U	4.05 U	4.05 U	4.05 U	4.05 U	4.05 U	2.03 U	2.03 U	20.3 U	203 U	**1.5 J**	2.03 U	**3.59 J**	2.03 U	2.03 U	2.03 U
E-16 KK	E16-KK-121511-5-6	5 - 6	12/15/2011	4550 U	4550 U	4550 U	2270 U	4550 U	2270 U	4550 U	4550 U	4550 U	4550 U	4550 U	2270 U	2270 U	22700 U	227000 U	**420000 =**	2270 U	**68100 J**	**15900 =**	**23000 =**	2270 U
E-16 KK	E16-KK-121511-5-6 FD	5 - 6	12/15/2011	4630 U	4630 U	4630 U	2310 U	4630 U	2310 U	4630 U	4630 U	4630 U	4630 U	4630 U	2310 U	2310 U	23100 U	231000 U	**318000 =**	2310 U	**52200 J**	**9700 =**	**16800 =**	2310 U
E-16 KK	E16-KK-121511-9-10	9 - 10	12/15/2011	4.4 U	4.4 U	4.4 U	2.2 U	4.4 U	2.2 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	2.2 U	2.2 U	22 U	220 U	**5.7 =**	2.2 U	**5.26 =**	2.2 U	**0.638 J**	2.2 U
E-16 KK	E16-KK-121511-9-10 FD	9 - 10	12/15/2011	4.37 U	4.37 U	4.37 U	2.19 U	4.37 U	2.19 U	4.37 U	4.37 U	4.37 U	4.37 U	4.37 U	2.19 U	2.19 U	21.9 U	219 U	**5.56 =**	2.19 U	**4.56 =**	2.19 U	**0.522 J**	2.19 U
E-16 KK	E16-KK-121511-10-11	10 - 11	12/15/2011	917000 U	917000 U	917000 U	459000 U	917000 U	459000 U	917000 U	917000 U	917000 U	917000 U	917000 U	459000 U	459000 U	4590000 U	45900000 U	**10900000 =**	459000 U	**1580000 =**	**337000 J**	**1040000 =**	459000 U
E-16 KK	E16-KK-121511-11-12	11 - 12	12/15/2011	8510 U	8510 U	8510 U	4260 U	8510 U	4260 U	8510 U	8510 U	8510 U	8510 U	8510 U	4260 U	4260 U	42600 U	426000 U	**53100 =**	4260 U	**9910 =**	**2220 J**	**2920 J**	4260 U
E-16 KK	E16-KK-121511-13-14	13 - 14	12/15/2011	4.12 U	4.12 U	4.12 U	2.06 U	4.12 U	2.06 U	4.12 U	4.12 U	4.12 U	4.12 U	4.12 U	2.06 U	2.06 U	20.6 U	206 U	**0.968 J**	2.06 U	**1.26 J**	2.06 U	2.06 U	2.06 U
E-16 KK	E16-KK-121511-14-15	14 - 15	12/15/2011	4.08 U	4.08 U	4.08 U	2.04 U	4.08 U	2.04 U	4.08 U	4.08 U	4.08 U	4.08 U	4.08 U	2.04 U	2.04 U	20.4 U	204 U	**8.6 =**	2.04 U	**1.86 J**	**0.631 J**	**0.825 J**	2.04 U
E-16 KKEW15	E-16-KKEW15-122811-4-5	4 - 5	12/28/2011	186 U	186 U	186 U	92.9 U	186 U	92.9 U	186 U	186 U	186 U	186 U	186 U	92.9 U	92.9 U	929 U	9290 U	**161 =**	92.9 U	**163 J**	**49.9 J**	**18.6 J**	92.9 U
E-16 KKEW15	E-16-KKEW15-122811-5-6	5 - 6	12/28/2011	46.3 U	46.3 U	46.3 U	23.2 U	46.3 U	23.2 U	46.3 U	46.3 U	46.3 U	46.3 U	46.3 U	23.2 U	23.2 U	232 U	2320 U	**24.3 =**	23.2 U	**55.8 =**	**38.9 =**	**5.93 J**	23.2 U
E-16 KKEW15	E-16-KKEW15-122811-9-10	9 - 10	12/28/2011	198 U	198 U	198 U	99.2 U	198 U	99.2 U	198 U	198 U	198 U	198 U	198 U	99.2 U	99.2 U	992 U	9920 U	**815 =**	99.2 U	**236 =**	**57.7 J**	**78.6 J**	99.2 U
E-16 KKEW15	E-16-KKEW15-122811-10-11	10 - 11	12/28/2011	182 U	182 U	182 U	91.2 U	182 U	91.2 U	182 U	182 U	182 U	182 U	182 U	91.2 U	91.2 U	912 U	9120 U	**159 =**	91.2 U	**214 =**	**22.5 J**	91.2 U	91.2 U
E-16 KKEW15	E-16-KKEW15-122811-11-12	11 - 12	12/28/2011	42.9 U	42.9 U	42.9 U	21.4 U	42.9 U	21.4 U	42.9 U	42.9 U	42.9 U	42.9 U	42.9 U	21.4 U	21.4 U	214 U	2140 U	**7.96 J**	21.4 U	21.4 U	21.4 U	21.4 U	21.4 U
E-16 KKEW15	E-16-KKEW15-122811-13-14	13 - 14	12/28/2011	41.4 U	41.4 U	41.4 U	20.7 U	41.4 U	20.7 U	41.4 U	41.4 U	41.4 U	41.4 U	41.4 U	20.7 U	20.7 U	207 U	2070 U	**3.94 J**	20.7 U	41.4 U	20.7 U	20.7 U	20.7 U
E-16 KKSW15	E-16-KKSW15-122811-4-5	4 - 5	12/28/2011	22200 U	22200 U	22200 U	**737000 =**	22200 U	11100 U	22200 U	22200 U	22200 U	22200 U	22200 U	11100 U	11100 U	111000 U	1110000 U	11100 U	11100 U	**99800 =**	**17400 =**	**30800 =**	11100 U
E-16 KKSW15	E-16-KKSW15-122811-5-6	5 - 6	12/28/2011	210 U	210 U	210 U	105 U	210 U	105 U	210 U	210 U	210 U	210 U	210 U	105 U	105 U	1050 U	10500 U	**1290 =**	105 U	**245 =**	**37.8 J**	**55.4 J**	105 U
E-16 KKSW15	E-16-KKSW15-122811-9-10	9 - 10	12/28/2011	4280 U	4280 U	4280 U	2140 U	4280 U	2140 U	4280 U	4280 U	4280 U	4280 U	4280 U	2140 U	2140 U	21400 U	214000 U	**26000 =**	2140 U	**4200 J**	**682 J**	**1160 J**	2140 U
E-16 KKSW15	E-16-KKSW15-122811-10-11	10 - 11	12/28/2011	41.3 U	41.3 U	41.3 U	20.6 U	41.3 U	20.6 U	41.3 U	41.3 U	41.3 U	41.3 U	41.3 U	20.6 U	20.6 U	206 U	2060 U	**33.8 =**	20.6 U	**8.67 J**	20.6 U	**3.3 J**	20.6 U
E-16 KKSW15	E-16-KKSW15-122811-11-12	11 - 12	12/28/2011	41 U	41 U	41 U	20.5 U	41 U	20.5 U	41 U	41 U	41 U	41 U	41 U	20.5 U	20.5 U	205 U	2050 U	**12.3 J**	20.5 U	41 U	20.5 U	20.5 U	20.5 U
E-16 KKSW15	E-16-KKSW15-122811-13-14	13 - 14	12/28/2011	40.1 U	40.1 U	40.1 U	20.1 U	40.1 U	20.1 U	40.1 U	40.1 U	40.1 U	40.1 U	40.1 U	20.1 U	20.1 U	201 U	2010 U	**3.57 J**	20.1 U	40.1 U	20.1 U	20.1 U	20.1 U
E-16 L	E16-L-121511-5-6	5 - 6	12/15/2011	90400 U	90400 U	90400 U	45200 U	90400 U	45200 U	90400 U	90400 U	90400 U	90400 U	90400 U	45200 U	45200 U	452000 U	4520000 U	**1840000 =**	45200 U	**244000 =**	**53700 =**	**83900 =**	45200 U
E-16 L	E16-L-121511-5-6 FD	5 - 6	12/15/2011	93300 U	93300 U	93300 U	46700 U	93300 U	46700 U	93300 U	93300 U	93300 U	93300 U	93300 U	46700 U	46700 U	467000 U	4670000 U	**2460000 =**	46700 U	**231000 =**	**60400 =**	**103000 =**	46700 U
E-16 L	E16-L-121511-10-11	10 - 11	12/15/2011	92700 U	92700 U	92700 U	46400 U	92700 U	46400 U	92700 U	92700 U	92700 U	92700 U	92700 U	46400 U	46400 U	464000 U	4640000 U	**1030000 =**	46400 U	**129000 =**	**30300 J**	**135000 =**	46400 U
E-16 L	E16-L-121511-11-12	11 - 12	12/15/2011	450000 U	450000 U	450000 U	225000 U	450000 U	225000 U	450000 U	450000 U	450000 U	450000 U	450000 U	225000 U	225000 U	2250000 U	22500000 U	**2930000 =**	225000 U	**293000 J**	**84600 J**	**271000 =**	225000 U
E-16 L	E16-L-121511-13-14	13 - 14	12/15/2011	4.27 U	4.27 U	4.27 U	2.14 U	4.27 U	2.14 U	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U	2.14 U	2.14 U	21.4 U	214 U	**10.8 =**	2.14 U	**21.4 =**	2.14 U	**2.46 =**	2.14 U

TABLE 2-2 (GPA, 2012)

Soil Pesticide Data Summary - Rock Salt Warehouse

Additional Soil Investigation

Georgia Ports Authority, Bainbridge Terminal

Sample Location	Sample Identification	Sample Depth (ft)	Sample Date	4,4'DDD	4,4'DDE	4,4'-DDT	Aldrin	Dieldrin	Endsulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Endrin Ketone	Heptchlor	Heptachlor Epoxide	Methoxychlor	Toxaphene	alpha-BHC	alpha-Chlordane	beta-BHC	delta-BHC	gamma-BHC (Lindane)	gamma-Chlordane
Proposed Site-Specific RRS Values (ug/kg):				*11,000*	*7,700*	*11,000*	*660*												*660*		*3,100*	*100*	*12,000*	
E-16 L	E16-L-121511-14-15	14 - 15	12/15/2011	4.12 U	4.12 U	4.12 U	2.06 U	4.12 U	2.06 U	4.12 U	4.12 U	4.12 U	4.12 U	4.12 U	2.06 U	2.06 U	20.6 U	206 U	**7.56 =**	2.06 U	**16.7 =**	**9.86 =**	**1.06 J**	2.06 U
E-16 M	E16-M-121511-5-6	5 - 6	12/15/2011	182 U	182 U	182 U	91.1 U	182 U	91.1 U	182 U	182 U	182 U	182 U	182 U	91.1 U	91.1 U	911 U	9110 U	**26600 =**	91.1 U	**4680 =**	**1620 =**	**1890 =**	91.1 U
E-16 M	E16-M-121511-10-11	10 - 11	12/15/2011	4750 U	4750 U	4750 U	2380 U	4750 U	2380 U	4750 U	4750 U	4750 U	4750 U	4750 U	2380 U	2380 U	23800 U	238000 U	**20100 =**	2380 U	**6540 =**	**5100 =**	**1560 J**	2380 U
E-16 M	E16-M-121511-11-12	11 - 12	12/15/2011	183 U	183 U	183 U	91.3 U	183 U	91.3 U	183 U	183 U	183 U	183 U	183 U	91.3 U	91.3 U	913 U	9130 U	**3310 =**	91.3 U	**774 =**	**1010 =**	**468 =**	91.3 U
E-16 M	E16-M-121511-12-13	12 - 13	12/15/2011	182 U	182 U	182 U	90.8 U	182 U	90.8 U	182 U	182 U	182 U	182 U	182 U	90.8 U	90.8 U	908 U	9080 U	**366 =**	90.8 U	**190 =**	**78.9 J**	**15.8 J**	90.8 U
E-16 M	E16-M-121511-12-13 FD	12 - 13	12/15/2011	183 U	183 U	183 U	91.5 U	183 U	91.5 U	183 U	183 U	183 U	183 U	183 U	91.5 U	91.5 U	915 U	9150 U	**373 =**	91.5 U	**193 =**	**79.3 J**	**15.5 J**	91.5 U
E-16 M	E16-M-121511-13-14	13 - 14	12/15/2011	4.39 U	4.39 U	4.39 U	2.19 U	4.39 U	2.19 U	4.39 U	4.39 U	4.39 U	4.39 U	4.39 U	2.19 U	2.19 U	21.9 U	219 U	**8.38 =**	2.19 U	**8.31 =**	**16.6 =**	**0.809 J**	2.19 U
E-16 M	E16-M-121511-14-15	14 - 15	12/15/2011	4.28 U	4.28 U	4.28 U	2.14 U	4.28 U	2.14 U	4.28 U	4.28 U	4.28 U	4.28 U	4.28 U	2.14 U	2.14 U	21.4 U	214 U	**0.955 J**	2.14 U	**12.9 =**	2.14 U	2.14 U	2.14 U
E-16 P	E16-P-121511-5-6	5 - 6	12/15/2011	114000 U	114000 U	114000 U	56900 U	114000 U	56900 U	114000 U	114000 U	114000 U	114000 U	114000 U	56900 U	56900 U	569000 U	5690000 U	**876000 =**	56900 U	**106000 J**	**73700 =**	**196000 =**	56900 U
E-16 P	E16-P-121511-9-10	9 - 10	12/15/2011	4.41 U	4.41 U	4.41 U	2.21 U	4.41 U	2.21 U	4.41 U	4.41 U	4.41 U	4.41 U	4.41 U	2.21 U	2.21 U	22.1 U	221 U	**42.7 =**	2.21 U	**11 =**	2.21 U	**7.07 =**	2.21 U
E-16 P	E16-P-121511-10-11	10 - 11	12/15/2011	183 U	183 U	183 U	91.4 U	183 U	91.4 U	183 U	183 U	183 U	183 U	183 U	91.4 U	91.4 U	914 U	9140 U	**68200 =**	91.4 U	**6930 =**	**2260 =**	**14700 =**	91.4 U
E-16 P	E16-P-121511-11-12	11 - 12	12/15/2011	91700 U	91700 U	91700 U	45800 U	91700 U	45800 U	91700 U	91700 U	91700 U	91700 U	91700 U	45800 U	45800 U	458000 U	4580000 U	**653000 =**	45800 U	**88800 J**	**56200 =**	**138000 =**	45800 U
E-16 P	E16-P-121511-12-13	12 - 13	12/15/2011	426 U	426 U	426 U	213 U	426 U	213 U	426 U	426 U	426 U	426 U	426 U	213 U	213 U	2130 U	21300 U	**1620 =**	213 U	**426 =**	**276 =**	**267 =**	213 U
E-16 P	E16-P-121511-12-13 FD	12 - 13	12/15/2011	423 U	423 U	423 U	212 U	423 U	212 U	423 U	423 U	423 U	423 U	423 U	212 U	212 U	2120 U	21200 U	**2410 =**	212 U	**511 =**	**171 J**	**206 J**	212 U
E-16 P	E16-P-121511-13-14	13 - 14	12/15/2011	4.12 U	4.12 U	4.12 U	2.06 U	4.12 U	2.06 U	4.12 U	4.12 U	4.12 U	4.12 U	4.12 U	2.06 U	2.06 U	20.6 U	206 U	**21.7 =**	2.06 U	**6.06 =**	2.06 U	**2.32 =**	2.06 U
E-16 P	E16-P-121511-14-15	14 - 15	12/15/2011	4.14 U	4.14 U	4.14 U	2.07 U	4.14 U	2.07 U	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U	2.07 U	2.07 U	20.7 U	207 U	**2.06 J**	2.07 U	**1.98 J**	2.07 U	**0.466 J**	2.07 U
E-16 P	E-16-P-122011-18-19	18 - 19	12/20/2011	164 U	164 U	164 U	82 U	164 U	82 U	164 U	164 U	164 U	164 U	164 U	82 U	82 U	820 U	8200 U	**865 =**	82 U	**281 =**	**114 =**	**135 =**	82 U
E-16 P	E-16-P-122011-19-20	19 - 20	12/20/2011	4.1 U	4.1 U	4.1 U	2.05 U	4.1 U	2.05 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	2.05 U	2.05 U	20.5 U	205 U	**0.948 J**	2.05 U	**0.923 J**	2.05 U	2.05 U	2.05 U
E-16 Q	E-16-Q-122011-15-16	15 - 16	12/20/2011	2260 U	2260 U	2260 U	1130 U	2260 U	1130 U	2260 U	2260 U	2260 U	2260 U	2260 U	1130 U	1130 U	11300 U	113000 U	**35300 =**	1130 U	**4630 =**	**2960 =**	**3760 =**	1130 U
E-16 Q	E-16-Q-122011-18-19	18 - 19	12/20/2011	910 U	910 U	910 U	455 U	910 U	455 U	910 U	910 U	910 U	910 U	910 U	455 U	455 U	4550 U	45500 U	**6450 =**	455 U	**2190 =**	**465 =**	**611 =**	455 U
E-16 Q	E-16-Q-122011-22-23	22 - 23	12/20/2011	42.1 U	42.1 U	42.1 U	21.1 U	42.1 U	21.1 U	42.1 U	42.1 U	42.1 U	42.1 U	42.1 U	21.1 U	21.1 U	211 U	2110 U	**44.5 =**	21.1 U	**19.7 J**	**6.74 J**	21.1 U	21.1 U
E-16 VWW10	E-16-V-WW10-122011-14-15	14 - 15	12/20/2011	4.6 U	4.6 U	4.6 U	2.3 U	4.6 U	2.3 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	2.3 U	2.3 U	23 U	230 U	**7.62 =**	2.3 U	**9.3 =**	2.3 U	**0.863 J**	2.3 U
E-16 VWW10	E-16-V-WW10-122011-16-17	16 - 17	12/20/2011	1820 U	1820 U	1820 U	909 U	1820 U	909 U	1820 U	1820 U	1820 U	1820 U	1820 U	909 U	909 U	9090 U	90900 U	**8410 =**	909 U	**1220 J**	**482 J**	**1320 =**	909 U
E-16 VWW10	E-16-V-WW10-122011-19-20	19 - 20	12/20/2011	4.44 U	4.44 U	4.44 U	2.22 U	4.44 U	2.22 U	4.44 U	4.44 U	4.44 U	4.44 U	4.44 U	2.22 U	2.22 U	22.2 U	222 U	**2.72 =**	2.22 U	**12.7 =**	2.22 U	**0.503 J**	2.22 U
E-16 VWW10	E-16-V-WW10-122011-20-21	20 - 21	12/20/2011	184 U	184 U	184 U	91.9 U	184 U	91.9 U	184 U	184 U	184 U	184 U	184 U	91.9 U	91.9 U	919 U	9190 U	**242 =**	91.9 U	**74.9 J**	**16.1 J**	**17.3 J**	91.9 U
E-16 VWW10	E-16-V-WW10-122011-21-22	21 - 22	12/20/2011	185 U	185 U	185 U	92.5 U	185 U	92.5 U	185 U	185 U	185 U	185 U	185 U	92.5 U	92.5 U	925 U	9250 U	**5090 =**	92.5 U	**1090 =**	**370 =**	**1500 =**	92.5 U
E-17 B	E17-B-121411-4-5	4 - 5	12/14/2011	451 U	451 U	451 U	225 U	451 U	225 U	451 U	451 U	451 U	451 U	451 U	225 U	225 U	2250 U	22500 U	**2780 =**	225 U	**485 =**	**41.1 J**	**118 J**	225 U
E-17 B	E17-B-121411-5-6	5 - 6	12/14/2011	**5.47 J**	89.6 U	22.8 J	44.8 U	89.6 U	44.8 U	89.6 U	89.6 U	89.6 U	89.6 U	89.6 U	44.8 U	44.8 U	448 U	4480 U	**122 =**	44.8 U	**420 =**	**44.7 J**	**53.4 =**	44.8 U
E-17 E	E17-E-121411-5-6	5 - 6	12/14/2011	182 U	182 U	182 U	90.8 U	182 U	90.8 U	182 U	182 U	182 U	182 U	182 U	90.8 U	90.8 U	908 U	9080 U	**2050 =**	90.8 U	**953 =**	**163 =**	**214 =**	90.8 U
E-17 E	E17-E-121411-6-7	6 - 7	12/14/2011	452 U	452 U	452 U	226 U	452 U	226 U	452 U	452 U	452 U	452 U	452 U	226 U	226 U	2260 U	22600 U	**2640 =**	226 U	**727 =**	**72.7 J**	**56.5 J**	226 U
E-17 E	E17-E-121411-7-8	7 - 8	12/14/2011	179 U	179 U	179 U	89.4 U	179 U	89.4 U	179 U	179 U	179 U	179 U	179 U	89.4 U	89.4 U	894 U	8940 U	**127 =**	89.4 U	179 U	89.4 U	**12.9 J**	89.4 U
E-17 E	E17-E-121411-8-9	8 - 9	12/14/2011	90.4 U	90.4 U	90.4 U	45.2 U	90.4 U	45.2 U	90.4 U	90.4 U	90.4 U	90.4 U	90.4 U	45.2 U	45.2 U	452 U	4520 U	**14 J**	45.2 U	90.4 U	45.2 U	45.2 U	45.2 U
E-17 E	E17-E-121411-9-10	9 - 10	12/14/2011	89.4 U	89.4 U	89.4 U	44.7 U	89.4 U	44.7 U	89.4 U	89.4 U	89.4 U	89.4 U	89.4 U	44.7 U	44.7 U	447 U	4470 U	44.7 U	44.7 U	89.4 U	44.7 U	44.7 U	44.7 U
E-17 E	E-17-E-122011-10-11	10 - 11	12/20/2011	188 U	188 U	188 U	93.9 U	188 U	93.9 U	188 U	188 U	188 U	188 U	188 U	93.9 U	93.9 U	939 U	9390 U	**49.5 J**	93.9 U	188 U	93.9 U	**14.8 J**	93.9 U
E-17 E	E-17-E-122011-12-13	12 - 13	12/20/2011	4.46 U	4.46 U	4.46 U	2.23 U	4.46 U	2.23 U	4.46 U	4.46 U	4.46 U	4.46 U	4.46 U	2.23 U	2.23 U	22.3 U	223 U	**5.17 =**	2.23 U	**9.89 =**	**2.09 J**	**1 J**	2.23 U
E-17 E	E-17-E-122011-12-13 FD	12 - 13	12/20/2011	4.48 U	4.48 U	4.48 U	2.24 U	4.48 U	2.24 U	4.48 U	4.48 U	4.48 U	4.48 U	4.48 U	2.24 U	2.24 U	22.4 U	224 U	**11.3 =**	2.24 U	**8.74 =**	**2.58 =**	**2.04 J**	2.24 U

Notes:

Unless otherwise stated, all concentrations are reported in micrograms per kilogram (ug/Kg).

Bold values indicate detected concentrations

Shaded values indicate detection above the proposed Site-Specific Risk Reduction Standards (RRS).

J = Concentration detected at or above the MDL but below the RL.

B = Contimant detected in associated method blank

TABLE 2-3 (GPA, 2012)

Soil Pesticide Data Summary - Northwest Warehouse

Additional Soil Investigation

Georgia Ports Authority, Bainbridge Terminal

Sample Location	Sample Identification	Sample Depth (ft)	Sample Date	4,4'DDD	4,4'DDE	4,4'-DDT	Aldrin	Dieldrin	Endsulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Endrin Ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene	alpha-BHC	alpha-Clordane	beta-BHC	delta-BHC	gamma-BHC (Lindane)	gamma-Chlordane
Proposed Site-Specific RRS Values (ug/kg):				*11,000*	*7,700*	*11,000*	*660*												*660*		*3,100*	*100*	*12,000*	
SB-01	NW-SB-01-122011-0-2	0 to 2	20-Dec-2011	177U	**18.1J**	177U	88.4U	177U	88.4U	177U	177U	177U	177U	177U	88.4U	88.4U	884U	8840U	**3260**	88.4U	**2720**	**23.5J**	**88.8**	88.4U
SB-01	NW-SB-01-122011-3-5	3 to 5	20-Dec-2011	41.8U	41.8U	41.8U	20.9U	41.8U	20.9U	41.8U	41.8U	41.8U	41.8U	41.8U	20.9U	20.9U	209U	2090U	**2.58J**	20.9U	**69.6**	20.9U	20.9U	20.9U
SB-02	NW-SB-02-122011-0-2	0 to 2	20-Dec-2011	44.3U	44.3U	44.3U	22.2U	44.3U	22.2U	44.3U	44.3U	44.3U	44.3U	44.3U	22.2U	22.2U	222U	2220U	**14.3J**	22.2U	44.3U	22.2U	22.2U	22.2U
SB-02	NW-SB-02-122011-3-5	0 to 2	20-Dec-2011	44.1U	44.1U	44.1U	22.1U	44.1U	22.1U	44.1U	44.1U	44.1U	44.1U	44.1U	22.1U	22.1U	221U	2210U	**19.9J**	22.1U	**9.07J**	**22.1U**	**4.76J**	.
SB-03	NW-SB-03-122011-0-2	0 to 2	20-Dec-2011	2280U	2280U	2280U	1140U	2280U	1140U	2280U	2280U	2280U	2280U	2280U	1140U	1140U	11400U	114000U	**16100**	1140U	**7540**	1140U	**533J**	1140U
SB-03	NW-SB-03-122011-3-5	3 to 5	20-Dec-2011	47.4U	47.4U	47.4U	23.7U	47.4U	23.7U	47.4U	47.4U	47.4U	47.4U	47.4U	23.7U	23.7U	237U	2370U	**127**	23.7U	**59.3**	**37.2**	**83**	23.7U
SB-04	NW-SB-04-122011-0-2	0 to 2	20-Dec-2011	185U	185U	185U	92.6U	185U	92.6U	185U	185U	185U	185U	185U	92.6U	92.6U	926U	9260U	**568**	92.6U	**312**	**112**	**365**	92.6U
SB-04	NW-SB-04-122011-3-5	3 to 5	20-Dec-2011	194U	194U	194U	96.9U	194U	96.9U	194U	194U	194U	194U	194U	96.9U	96.9U	969U	9690U	**233**	96.9U	**26.9J**	**106**	**389**	96.9U
SB-05	NW-SB-05-122011-0-2	0 to 2	20-Dec-2011	873000U	873000U	873000U	436000U	873000U	436000U	873000U	873000U	873000U	873000U	873000U	436000U	436000U	4360000U	43600000U	**6170000**	436000U	**815000J**	**74900J**	**1430000**	436000U
SB-05	NW-SB-05-122011-3-5	3 to 5	20-Dec-2011	193U	193U	193U	96.6U	193U	96.6U	193U	193U	193U	193U	193U	96.6U	96.6U	966U	9660U	**209**	96.6U	**161J**	**577**	**884**	96.6U
SB-06	NW-SB-06-122011-0-2	0 to 2	20-Dec-2011	1770U	1770U	1770U	887U	1770U	887U	1770U	1770U	1770U	1770U	1770U	887U	887U	8870U	88700U	**7700**	887U	**6240**	**164J**	**1270**	887U
SB-06	NW-SB-06-122011-3-5	3 to 5	20-Dec-2011	44.7U	44.7U	44.7U	22.3U	44.7U	22.3U	44.7U	44.7U	44.7U	44.7U	44.7U	22.3U	22.3U	223U	2230U	**84.6**	22.3U	**17.0J**	22.3U	**62.8**	22.3U
SB-07	NW-SB-07-122011-0-2	0 to 2	20-Dec-2011	175U	175U	175U	87.6U	175U	87.6U	175U	175U	175U	175U	175U	87.6U	87.6U	876U	8760U	87.6U	87.6U	175U	87.6U	87.6U	87.6U
SB-07	NW-SB-07-122011-3-5	3 to 5	20-Dec-2011	176U	176U	176U	88.0U	176U	88.0U	176U	176U	176U	176U	176U	88.0U	88.0U	880U	8800U	88.0U	88.0U	176U	88.0U	88.0U	88.0U
SB-08	NW-SB-08-122011-0-2	0 to 2	20-Dec-2011	903U	903U	**102J**	451U	903U	451U	903U	903U	903U	903U	903U	451U	451U	4510U	45100U	451U	451U	**5280**	451U	451U	451U
SB-08	NW-SB-08-122011-3-5	3 to 5	20-Dec-2011	44.7U	44.7U	**10.3J**	22.4U	44.7U	22.4U	44.7U	44.7U	44.7U	44.7U	44.7U	22.4U	22.4U	224U	2240U	**23.7**	22.4U	**80.4**	22.4U	**3.41J**	22.4U
SB-09	NW-SB-09-122011-0-2	0 to 2	20-Dec-2011	4470U	4470U	4470U	2230U	4470U	2230U	4470U	4470U	4470U	4470U	4470U	2230U	2230U	22300U	223000U	**23900**	2230U	**4060J**	**374J**	**761J**	2230U
SB-09	NW-SB-09-122011-3-5	3 to 5	20-Dec-2011	44.3U	**6.30J**	**39.1J**	21.7U	43.3U	21.7U	43.3U	43.3U	43.3U	43.3U	43.3U	21.7U	21.7U	217U	2170U	**261**	21.7U	**348**	**58.7**	**152**	21.7U
SB-10	NW-SB-10-122011-0-2	0 to 2	20-Dec-2011	1780U	1780U	1780U	892U	1780U	892U	1780U	1780U	1780U	1780U	1780U	892U	892U	8920U	89200U	**1690**	892U	**10700**	**1670**	**429J**	892U
SB-10	NW-SB-10-122011-3-5	3 to 5	20-Dec-2011	878U	878U	**730J**	439U	878U	439U	878U	878U	878U	878U	878U	439U	439U	4390U	43900U	**166J**	439U	**4830**	**136J**	**66.3J**	439U
SB-11	NW-SB-11-122011-0-2	0 to 2	20-Dec-2011	**48.3J**	**67.9J**	**44.9J**	87.0U	174U	87.0U	174U	174U	174U	174U	174U	87.0U	87.0U	870U	8700U	**192**	87.0U	**7190**	**36.9J**	**96.7**	87.0U
SB-11	NW-SB-11-122011-3-5	3 to 5	20-Dec-2011	185U	185U	185U	92.5U	185U	92.5U	185U	185U	185U	185U	185U	92.5U	92.5U	925U	9250U	92.5U	92.5U	185U	92.5U	92.5U	92.5U
SB-12	NW-SB-12-122011-0-2	0 to 2	20-Dec-2011	11700U	11700U	11700U	5860U	11700U	5860U	11700U	11700U	11700U	11700U	11700U	5860U	5860U	58600U	586000U	**52100**	5860U	**8620J**	**4330J**	**9430**	5860U
SB-12	NW-SB-12-122011-3-5	3 to 5	20-Dec-2011	45.4U	45.4U	45.4U	22.7U	45.4U	22.7U	45.4U	45.4U	45.4U	45.4U	45.4U	22.7U	22.7U	227U	2270U	**182**	22.7U	**114**	**45.5**	**32.4**	22.7U

Notes:

Unless otherwise stated, all concentrations are reported in micrograms per kilogram (ug/Kg).

Bold values indicate detection either above the Method Detection Limit (MDL) or less than or more than the Reporting Limit (RL). If concentrations are reported at less than the RL, the value is accompanied by a "J" qualifier.

Bolded and shaded values indicate detection above the proposed Site-Specific Risk Reduction Standards (RRS).

J = Concentration detected at or less than the MDL.

TABLE 2-4 (GPA, 2012)

Soil Pesticide Data Summary - Drainage Ditch / Swales

Additional Soil Investigation

Georgia Ports Authority, Bainbridge Terminal

Sample Location	Sample Identification	Sample Depth (ft)	Sample Date	4,4'DDD	4,4'DDE	4,4'-DDT	Aldrin	Dieldrin	Endsulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Endrin Ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene	alpha-BHC	alpha-Chlordane	beta-BHC	delta-BHC	gamma-BHC (Lindane)	gamma-Chlordane
Proposed Site-Specific RRS Values (ug/kg):				*11,000*	*7,700*	*11,000*	*660*												*660*		*3,100*	*100*	*12,000*	
SD-01	SD-01-121311	0.0 - 0.5	12/13/2011	**2.01 J**	6.49 U	**1.96 J**	3.24 U	6.49 U	3.24 U	6.49 U	6.49 U	6.49 U	6.49 U	6.49 U	3.24 U	3.24 U	32.4 U	324 U	**12.6 B**	3.24 U	**28.6 =**	**3.04 J**	**2.3 J**	3.24 U
SD-02	SD-02-121311	0.0 - 0.5	12/13/2011	**25 J**	232 U	**50.1 J**	116 U	232 U	116 U	232 U	**23.6 J**	232 U	**32.4 J**	232 U	116 U	116 U	**17.5 J**	11600 U	**16.1 J**	116 U	**113 J**	116 U	116 U	116 U
SD-02	SD-02FD-121311	0.0 - 0.5	12/13/2011	220 U	220 U	**39 J**	110 U	220 U	110 U	220 U	220 U	220 U	220 U	220 U	110 U	110 U	**19.3 J**	11000 U	110 U	110 U	**74.4 J**	110 U	110 U	110 U
SD-03	SD-03-121311	0.0 - 0.5	12/13/2011	**5.94 J**	**18.4 J**	**33.3 J**	45.7 U	91.4 U	45.7 U	91.4 U	91.4 U	91.4 U	91.4 U	91.4 U	45.7 U	45.7 U	457 U	4570 U	**33.3 JB**	45.7 U	**146 =**	**11.6 J**	**8.36 J**	45.7 U
SD-04	SD-04-121311	0.0 - 0.5	12/13/2011	**11.5 J**	**47.8 J**	**63.9 J**	45.7 U	91.4 U	45.7 U	91.4 U	91.4 U	91.4 U	91.4 U	91.4 U	45.7 U	45.7 U	457 U	4570 U	**21.5 JB**	45.7 U	**294 =**	**12.8 J**	**13.9 J**	45.7 U
SD-05	SD-05-121311	0.0 - 0.5	12/13/2011	84.7 U	84.7 U	**7.58 J**	42.4 U	84.7 U	42.4 U	84.7 U	84.7 U	84.7 U	84.7 U	84.7 U	42.4 U	42.4 U	424 U	4240 U	**79.8 B**	42.4 U	**17.4 J**	42.4 U	42.4 U	42.4 U
SD-06	SD-06-121311	0.0 - 0.5	12/13/2011	2140 U	2140 U	2140 U	1070 U	2140 U	1070 U	2140 U	2140 U	2140 U	2140 U	2140 U	1070 U	1070 U	10700 U	107000 U	**140 JB**	1070 U	**14400 =**	1070 U	1070 U	1070 U
SD-07	SD-07-121311	0.0 - 0.5	12/13/2011	86.1 U	86.1 U	86.1 U	43 U	86.1 U	43 U	86.1 U	86.1 U	86.1 U	86.1 U	86.1 U	43 U	43 U	430 U	4300 U	43 U	43 U	86.1 U	43 U	43 U	43 U
SD-08	SD-08-121311	0.0 - 0.5	12/13/2011	84.6 U	84.6 U	84.6 U	42.3 U	84.6 U	42.3 U	84.6 U	84.6 U	84.6 U	84.6 U	84.6 U	42.3 U	42.3 U	423 U	4230 U	**6.73 JB**	42.3 U	**205 =**	42.3 U	42.3 U	42.3 U
SD-09	SD-09-121311	0.0 - 0.5	12/13/2011	96.6 U	96.6 U	96.6 U	48.3 U	96.6 U	48.3 U	96.6 U	96.6 U	96.6 U	96.6 U	96.6 U	48.3 U	48.3 U	483 U	4830 U	**8.5 JB**	48.3 U	**39.1 J**	48.3 U	48.3 U	48.3 U
SD-10	SD-10-121311	0.0 - 0.5	12/13/2011	**8.29 J**	**13.3 J**	**16.7 J**	47.3 U	94.7 U	47.3 U	94.7 U	94.7 U	94.7 U	94.7 U	94.7 U	47.3 U	47.3 U	473 U	4730 U	**34.5 JB**	47.3 U	**342 =**	**20.3 J**	47.3 U	47.3 U

Notes:

Unless otherwise stated, all concentrations are reported in micrograms per kilogram (µg/Kg)

Bold values indicate detected concentrations

J = Concentration detected at or above the MDL but below the RL

B = Compound was detected in the associated Method Blank

Table 2-5 - Historic Groundwater Sampling Events at GPA Bainbridge Terminal Site

Sampling Entity	Month/Year Samples Collected	Source	Wells Sampled	Site Area
LawGibb Group	Aug-93	Revised Nov. 2, 2001 CSR	MW-1, MW-2, MW-3	South
LawGibb Group	Sep-93	Revised Nov. 2, 2001 CSR	MW-1A, MW-2 to MW-5	South
LawGibb Group	Nov-93	Revised Nov. 2, 2001 CSR	MW-1, MW-1A, MW-2 to MW-5	South
LawGibb Group	Sep-99	Revised Nov. 2, 2001 CSR	MW-1A, MW-2, MW-3	South
LawGibb Group	Jul-01	Revised Nov. 2, 2001 CSR	MW-4U, MW-5D	South
LawGibb Group	Sep-01	Revised Nov. 2, 2001 CSR	MW-1A, MW-2, MW-3, MW-4U, MW-6 to MW-9	South
Law	Apr-02	Addendum 1 to Revised Nov. 2, 2001 CSR	MW-6, MW-10 to MW-13	North and South
Law	Jun-02	Addendum 1 to Revised Nov. 2, 2001 CSR	MW-7, MW-10, MW-12, MW-13	North and South
MACTEC (Formerly Law)	Apr-03	Addendum 2 to Revised Nov. 2, 2001 CSR	MW-14 to MW-16	North and South
CH2M Hill	Apr-08	June 2008 Report of Findings	MW-1, MW-1A, MW-2, MW-4U, MW-5A, MW-5D, MW-6 to MW-8, MW-10 to MW-17	North and South
CH2M Hill	Aug-09	Sept. 2009 Report of Findings	MW-1, MW-1A, MW-2, MW-4U, MW-5A, MW-5D, MW-6 to MW-8, MW-10 to MW-21	North and South
CH2M Hill	Jul-11	April 2012 First Annual Groundwater Monitoring Report	MW-1, MW-1A, MW-2, MW-5A, MW-5D, MW-6, MW-8 , MW-10 to MW-14, MW-16 to MW-18, MW-20, MW-21	North and South
CH2M Hill	Apr-12	April 2012 First Annual Groundwater Monitoring Report	MW-5A, MW-5D, MW-6, MW-8, MW-10 to MW-22	North, South, and North ROW of Spring Creek Road

CSR= Compliance Status Report

Table 2-6
Chemical Concentrations of Pesticide COC's in Groundwater Samples (Modified from Table 2 GPA, 2012)
Bainbridge Terminal - Georgia Ports Authority

	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	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
	Site-Specific Type 4 RRS Values (ug/L)	0.5	1.6	0.1	2.6		0.2				8.4			12		8.4						
Station ID	Sample Date																					
MW-1	8/5/2009	**0.095**	**0.113**	0.051 U	**0.065**	0.051 U	0.051 U	0.051 U	**0.00462 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	5.10 U
	7/13/2011	0.051 U	**0.10 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	**0.00920 J**	0.51 U	0.102 U	0.051 U	0.051 U	0.102 U	5.10 U
	4/5/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1A	8/5/2009	**0.092**	**0.158**	0.051 U	**0.063**	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	5.10 U
	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	0.510 U	0.102 U	0.051 U	0.051 U	0.102 U	5.1 U
	4/5/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	8/4/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/14/2011	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.050U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.500 U	0.100 U	0.050 U	0.050 U	0.100 U	5.0 U
	4/5/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4U	8/5/2009	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.101 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	5.0 U
	7/12/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/5/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5A	8/4/2009	**0.510 J**	**18**	**2.2**	**0.155 J**	1.01 U	1.01 U	1.01 U	1.01 U	**1.70 J**	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	1.01 U	**0.340 J**	101 U
	7/15/2011	**0.130**	**1.41**	**0.559**	**0.100 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	**0.430 J**	**15.6 J**	**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	1.01 U	**0.625 J**	101 U
MW-5D	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 U	2.02 U	4.04 U	202 U
	7/15/2011	0.500 U	**8.61**	**0.47J**	**0.538 J**	0.500 U	0.500 U	0.500 U	0.500 U	**5.60**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5.00 U	1.00 U	0.500 U	0.500 U	1.00 U	50.0 U
	4/6/2012	**0.660**	**6.00 J**	**2.10 UBL**	**0.544**	0.510 U	0.510 U	0.510 U	0.510 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	5.10 U	1.02 U	5.10 U	5.10 U	1.02 U	51.0 U
MW-6	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	**1.40**	**1.60 J**	**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
MW-7	8/5/2009	**0.137**	**0.564**	0.051 U	**0.129**	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	0.051 U	**0.00823 J**	0.101 U	5.05 U
	7/12/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/5/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	8/4/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/14/2011	**0.527**	**2.66**	**1.1**	**0.277**	0.250U	0.250U	0.250U	0.250U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	2.5 U	0.500U	0.250 U	0.250 U	0.500 U	25.0 U
	4/5/2012	**0.227**	**1.99 J**	**0.300 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
MW-10	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**	**9.00 J**	**1.20 UBL**	**0.534**	0.510 U	0.510 U	0.510 U	0.510 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U	5.10 U	1.02 U	5.10 U	5.10 U	1.02 U	51.0 U
MW-11	8/4/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/14/2011	0.050 U	**0.072**	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.500 U	0.100U	0.050 U	0.050 U	0.100 U	5.0 U
	4/6/2012	0.051 U	**0.030 J**	0.051U	0.051U	0.051U	0.051U	0.051U	0.051U	0.102 U	0.102 U	0.102 U	0.102 U	0.102 U	0.102 U	0.102 U	0.510 U	0.102 U	0.510 U	0.510 U	0.102 U	5.10 U
MW-12	8/4/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/14/2011	**0.026J**	**0.663**	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.500 U	0.100U	0.050 U	0.050 U	0.100 U	5.0 U
	4/5/2012	**0.017 J**	**0.750**	**0.027 J**	**0.012 J**	0.052 U	0.052 U	0.052 U	0.052 U	0.103U	0.103U	0.103U	0.103U	0.103U	0.103U	0.103U	0.515 U	0.103 U	0.052 U	0.052 U	0.103 U	5.15 U
MW-13	8/4/2009	**0.12 J**	**11**	**0.630 J**	1.01 U	1.01 U	1.01 U	1.01 U	1.01 U	2.02 U	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	1.01 U	2.02 U	101 U
	7/12/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/5/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-14	8/4/2009	0.051 U	**0.028 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	0.102 U	0.102 U	0.102 U	0.102 U	0.510 U	0.102 U	0.051 U	0.051 U	0.102 U	5.10 U
	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	**0.011J**	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	0.051 U	0.051 U	0.101 U	5.05 U
MW-15	8/5/2009	**0.103**	**0.565**	**0.010 J**	**0.067**	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	0.051 U	0.051 U	0.101 U	5.05 U
	7/12/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/5/2012	**0.041 J**	**0.47 J**	**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	0.510 U	0.102 U	0.051 U	0.051 U	0.102 U	5.10 U
MW-16	8/5/2009	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.101 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
	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	0.057U	0.057U	0.057U	0.057U	0.057U	0.057U	0.057U	0.115 U	0.115 U	0.115 U	0.115 U	0.115 U	0.115 U	10.1	0.575 U	0.115 U	0.575 U	0.575 U	0.115 U	5.75 U

Table 2-6

Chemical Concentrations of Pesticide COC's in Groundwater Samples (Modified from Table 2 GPA, 2012)

Bainbridge Terminal - Georgia Ports Authority

	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	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
	Site-Specific Type 4 RRS Values (ug/L)	0.5	1.6	0.1	2.6		0.2				8.4			12		8.4						
Station ID	Sample Date																					
MW-17	8/4/2009	**0.017 J**	**0.37**	**0.36**	**0.011 J**	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	0.051 U	0.051 U	0.101 U	5.05 U
	7/13/2011	0.051 U	**0.420**	0.051 U	**0.00530 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
MW-18	8/6/2009	0.051 J	**0.375**	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	0.051 U	0.051 U	0.101 U	5.05 U
	7/15/2011	0.050U	**0.230**	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.500 U	0.100 U	0.050 U	0.050 U	0.100 U	5.00 U
	4/5/2012	0.052 U	**0.400**	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	0.103 U	0.515 U	0.103 U	0.052 U	0.052 U	0.103 U	5.15 U
MW-19	8/6/2009	**0.00918 J**	**0.113**	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	**0.012 J**	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
	7/12/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/5/2012	0.051 U	**0.036 J**	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	**0.080**	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
MW-20	8/6/2009	2.5 U	**25.7**	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	2.5 U	2.5 U	5.0 U	250 U
	7/12/2011	**0.46J**	**16**	**5.90**	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	51.0 U
	4/5/2012	**0.204 J**	**10.4 J**	**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
MW-21	8/6/2009	**0.575**	**7.46**	0.5 U	**0.350 J**	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	0.5 U	0.5 U	1.0 U	50 U
	7/12/2011	**0.210 J**	**5.8**	**0.420 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	51.0 U
	4/5/2012	0.115 U	**1.9 J**	**0.050 UBL**	**0.021 J**	0.115 U	0.115 U	**0.010 J**	0.115 U	0.230 U	0.230 U	0.230 U	0.230 U	0.230 U	0.230 U	0.230 U	1.15 U	0.230 U	0.115 U	0.115 U	0.230 U	11.5 U
MW-22	8/4/2009	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
	7/12/2011	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
	4/5/2012	**1.52 J**	**33.2 J**	**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

Notes:

MNA - Monitored Natural Attenuation

TOC - Total Organic Carbon

ug/L - micrograms per liter

mg/L - milligrams per liter

NM - not measured

U - not detected above detection limit

NS - Not Sampled

NI - Not Installed

J - estimated value

UBL - because of detection in equipment blank, value not certain

Shading indicates value exceeds a site-specific risk reduction standard

2008 groundwater data from CH2MHill "Report of Findings & Recommendations for Further Action in Response to Notify of Deficiency Letter" dated June 2, 2008.

2009 groundwater data from CH2MHill "Results of the Bainbridge Terminal Monitoring Well & Groundwater Sampling Investigation" dated September 22, 2009.

2011 and 2012 groundwater data from CH2MHill "First Annual Groundwater Monitoring Report" dated April 2012.

Table 3-1

Groundwater Data Summary Table - MNA (GPA, 2012)

Bainbridge Terminal - Georgia Ports Authority

	Analyte	Ethane	Ethene	Methane	Manganese	TOC	Chloride	Nitrate	Sulfate
	Unit	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L
Station ID	Sample Date								
MW-1	7/13/2011	NM	NM	NM	NM	**39.6**	NM	NM	NM
MW-1A	7/13/2011	NM	NM	NM	NM	**5.6**	NM	NM	NM
MW-2	7/14/2011	NM	NM	NM	NM	**6.0**	NM	NM	NM
MW-5A	7/15/2011	1.00 U	1.00 U	5.00 U	**1.52**	**7.1**	**17.9**	**10.1**	NM
MW-5A	4/6/2012	1.00 U	1.00 U	5.00 U	**2.34**	**1.3**	**31.4**	**19.9**	**122**
MW-5D	7/15/2011	1.00 U	1.00 U	**2.30 J**	**1.93**	**4.4**	**37.0**	**9.38**	NM
MW-5D	4/6/2012	1.00 U	1.00 U	**16.7**	**1.39**	**4.0**	116	**34.3**	**200**
MW-6	7/12/2011	1.00 U	1.00 U	**37.4**	**6.08**	**3.9**	**201**	**0.608**	NM
MW-6	4/4/2012	1.00 U	1.00 U	**42.7**	**5.00**	**1.1**	**181**	0.500 U	**489**
MW-8	7/14/2011	1.00 U	1.00 U	5.00 U	**2.77**	**7.1**	**45.8**	**24.6**	NM
MW-8	4/5/2012	1.00 U	1.00 U	5.00 U	**1.54**	**0.87 J**	**29.9**	**12.7**	**357**
MW-10	7/12/2011	1.00 U	1.00 U	5.00 U	**0.88**	**7.5**	**28.4**	**4.96**	NM
MW-10	4/5/2012	1.00 U	1.00 U	5.00 U	**1.09**	**2.6**	41.3	**5.82**	**398**
MW-11	7/14/2011	NM	NM	NM	NM	**5.3**	NM	NM	NM
MW-11	4/6/2012	1.00 U	1.00 U	5.00 U	**0.086**	**2.6**	**3.18**	**4.10**	**63.2**
MW-12	7/14/2011	1.00 U	1.00 U	5.00 U	**0.0029**	**2.4**	**22.8**	**10.8**	NM
MW-12	4/5/2012	1.00 U	1.00 U	5.00 U	0.015 U	**1.1**	**23.6**	**12.2**	**253**
MW-14	7/12/2011	NM	NM	NM	NM	**4.7**	NM	NM	NM
MW-14	4/4/2012	1.00 U	1.00 U	5.00 U	0.015 U	**1.1**	**2.10**	**0.104 J**	**1.84**
MW-15	4/5/2012	NM	NM	NM	NM	**5.7**	NM	NM	NM
MW-16	7/11/2011	NM	NM	NM	NM	**1.2**	NM	NM	NM
MW-16	4/5/2012	NM	NM	NM	NM	1.0 U	NM	NM	NM
MW-17	7/13/2011	1.00 U	1.00 U	**1.72**	**0.094**	**7.2**	**9.27**	**2.04**	NM
MW-17	4/6/2012	1.00 U	1.00 U	5.00 U	0.015 U	**5.0**	**0.558**	**0.293 J**	**1.73**
MW-18	7/15/2011	NM	NM	NM	NM	**12.8**	NM	NM	NM
MW-18	4/5/2012	NM	NM	NM	NM	**4.2**	NM	NM	NM
MW-19	4/5/2012	NM	NM	NM	NM	**2.6**	NM	NM	NM
MW-20	7/12/2011	1.00 U	1.00 U	5.00 U	**1.27**	**3.7**	**11.8**	**4.66**	NM
MW-20	4/5/2012	1.00 U	**0.075 J**	5.00 U	**1.06**	**1.2**	**14.7**	**7.87**	**84.3**
MW-21	7/12/2011	1.00 U	1.00 U	5.00 U	**1.56**	**5.9**	**46.9**	**12.3**	NM

Table 3-1

Groundwater Data Summary Table - MNA (GPA, 2012)

Bainbridge Terminal - Georgia Ports Authority

Analyte		Ethane	Ethene	Methane	Manganese	TOC	Chloride	Nitrate	Sulfate
Unit		ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L
Station ID	**Sample Date**								
MW-21	**4/5/2012**	1.00 U	1.00 U	5.00 U	**0.76**	**1.5**	**9.64**	**3.03**	**81.0**
MW-22	**4/5/2012**	1.00 U	**0.220 J**	5.00 U	**0.65**	**1.7**	**9.38**	**5.47**	**233**

Notes:

MNA - Monitored Natural Attenuation

TOC - Total Organic Carbon

ug/L - micrograms per liter

mg/L - milligrams per liter

NM - not measured

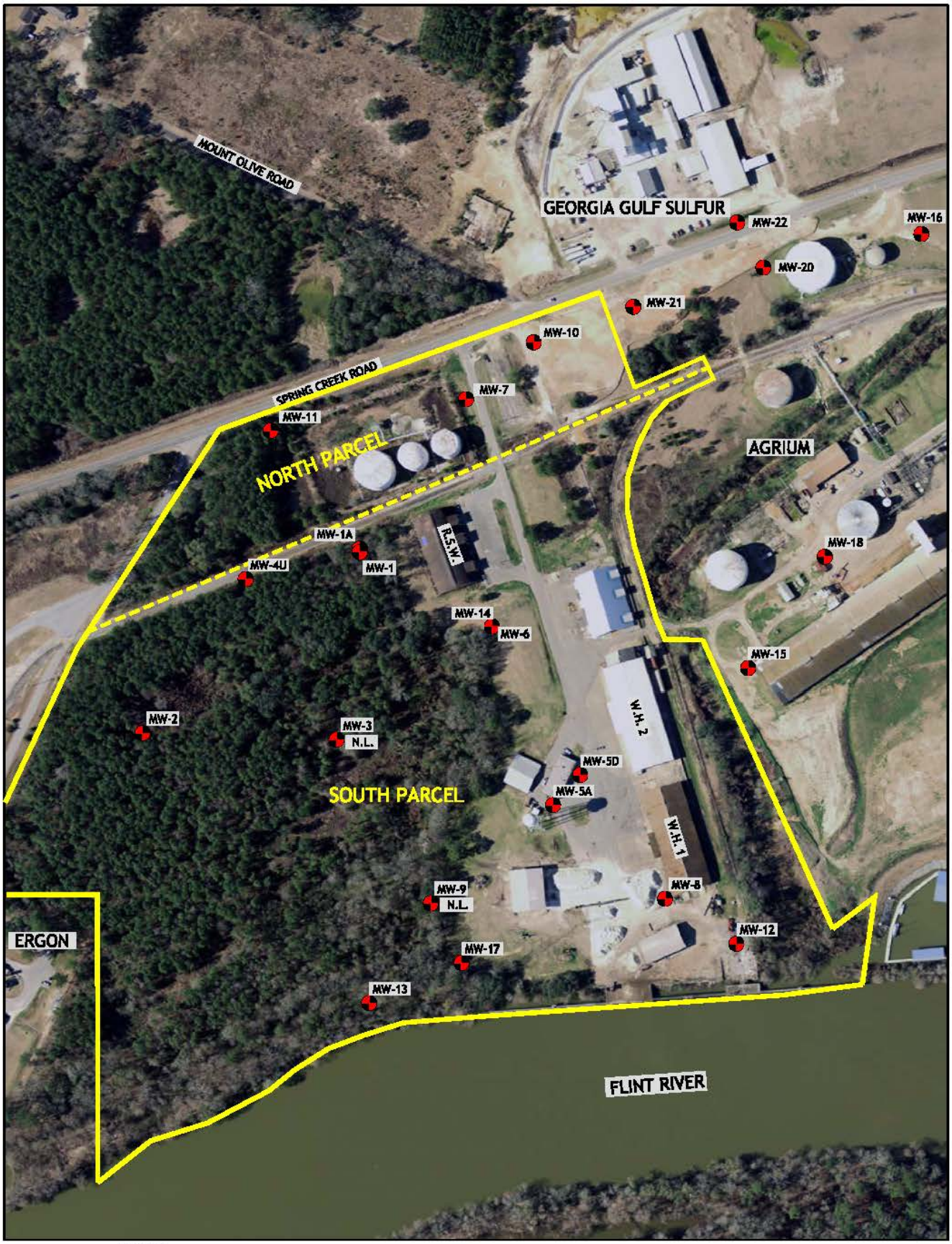
U - not detected above detection limit

J - estimated value

BHC REMEDIATION, BAINBRIDGE TERMINAL, BAINBRIDGE, GEORGIA

VIRP APPLICATION

FIGURES



LEGEND

MW-3 MONITORING WELL
N.L. WELL NOT LOCATED
GPA PROPERTY LINE
DIVISION SEPARATING NORTH AND SOUTH PARCELS

SOURCE: BASEMAP MODIFIED FROM 2010 AERIAL PHOTO PROVIDED BY GEORGIA PORTS AUTHORITY
PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY
WELL LOCATIONS (APPROXIMATE) FROM CHEMHILL DRAFT CAP AND WELL LOG MW-22

FILE: 400001 GPA-Bainbridge\Internal Issue\Report\General Figures.dwg

100 0 100 200 300
GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 1-1: SITE MAP

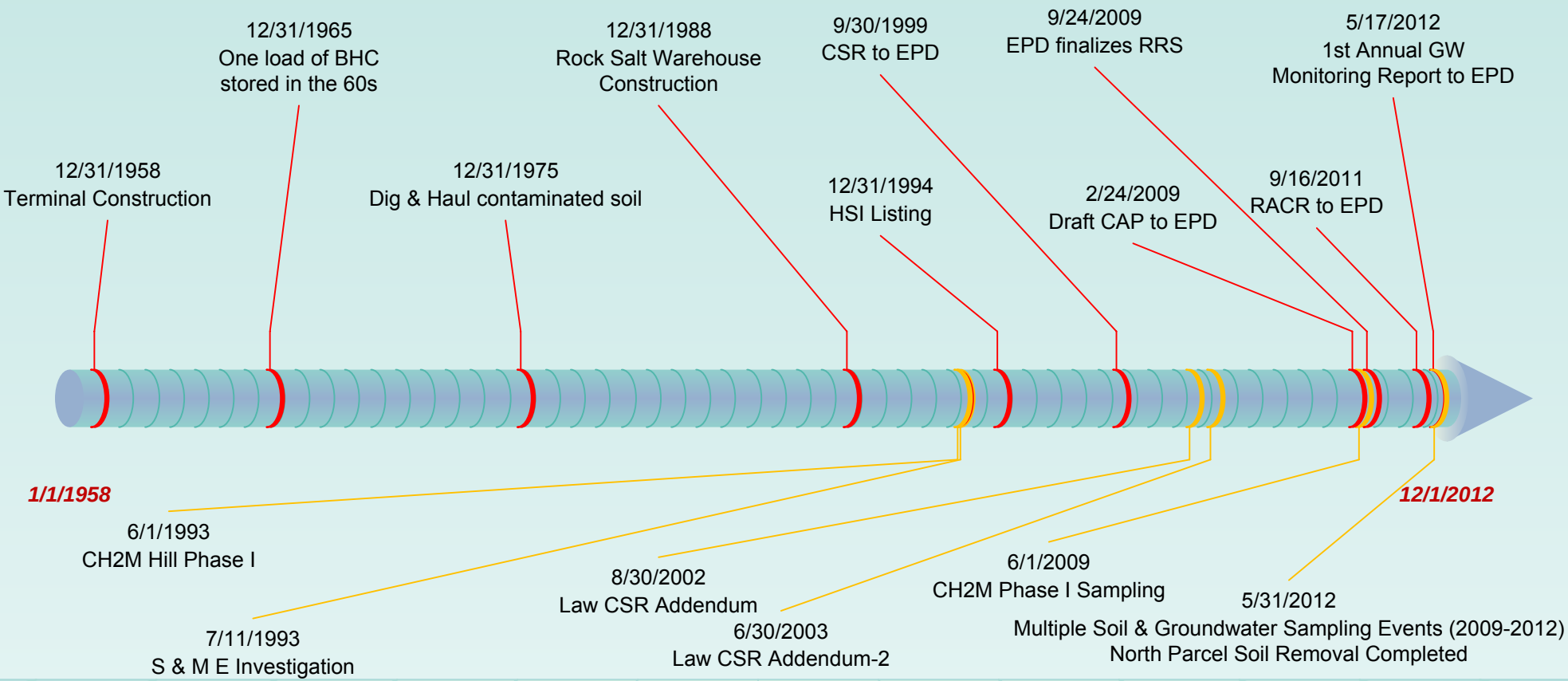
GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

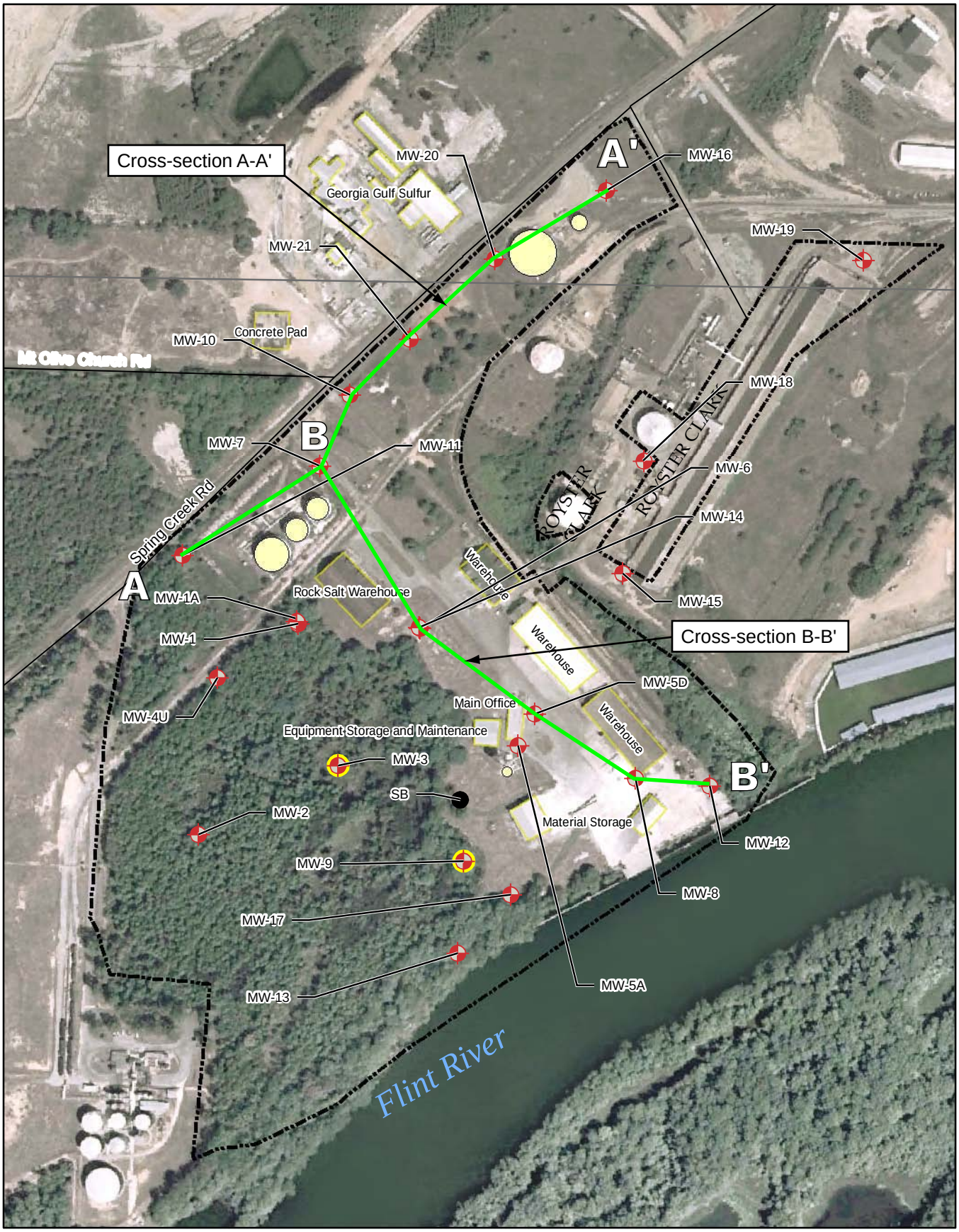
ENVIRONMENTAL INTERNATIONAL CORP.
101 KIMBALL BRIDGE ROAD
ALPHARETTA GEORGIA 30009

Figure 1.dwg

Figure 1-2: GPA Bainbridge Milestone Chart

Terminal Activiites **Thursday, July 26, 2012**





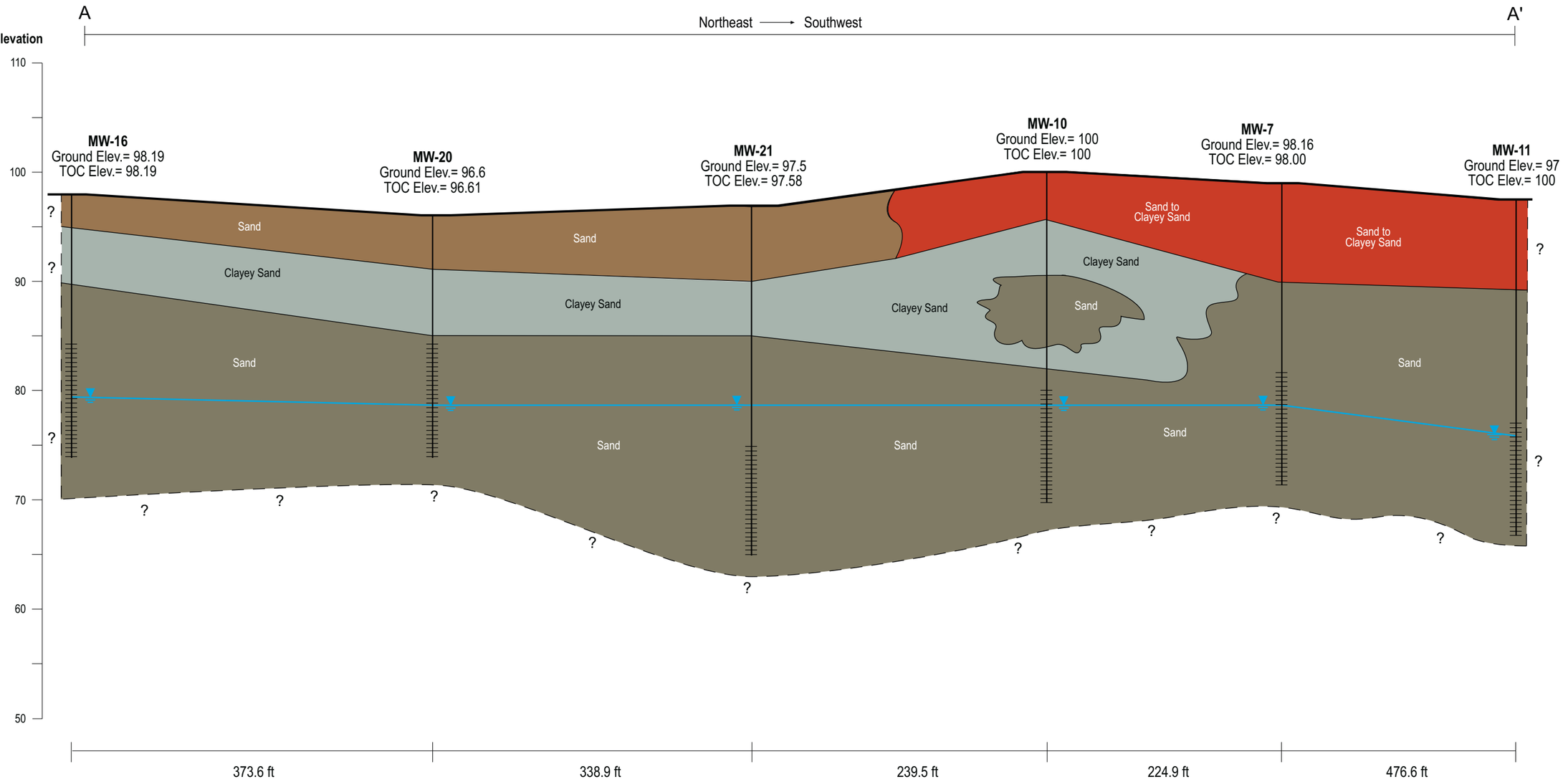
Legend

- Groundwater Montioring Wells
- Unable to Locate
- Soil Boring
- Water Towers
- Buildings
- Approximate Property Boundaries

N

0 125 250 500 Feet

Figure **3**
Cross-section Base Map
Exceedances in Groundwater (July 2009)
Georgia Ports Authority, Bainbridge, GA



LEGEND

- Well Screen Interval
- Groundwater Table
- Interpreted Geologic Contact
- Transitional Geologic Contact
- Inferred Geologic Contact
- Sand
- Sand to Clayey Sand
- Clayey Sand
- Sand

FIGURE 1-4

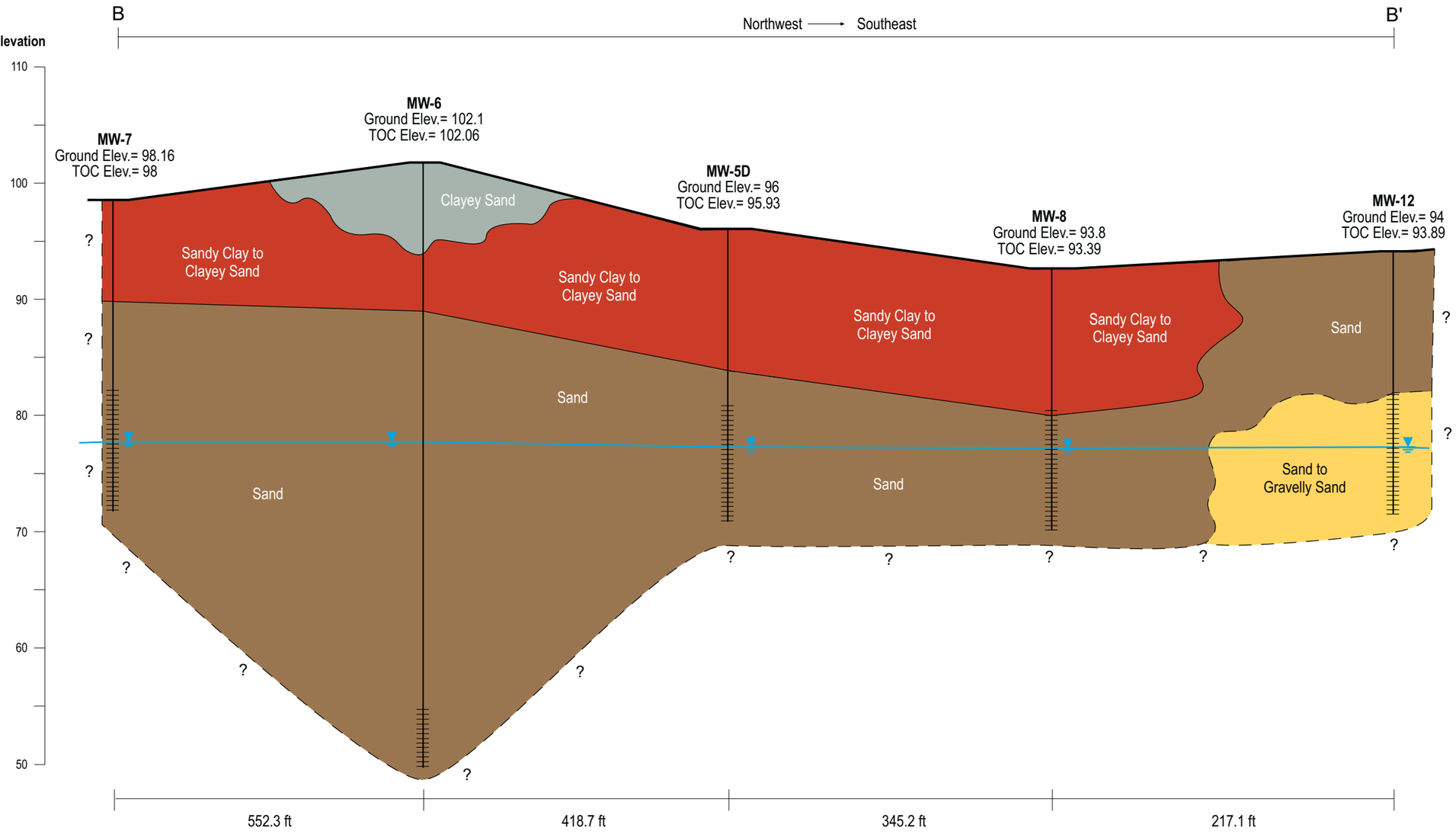
(Modifed from Figure 3A (CH2MHILL, 2009))

Lithologic Cross-Section A-A'

Georgia Ports Authority, Bainbridge, GA

CH2MHILL

ES092009011ATL 100.ai



LEGEND

- Well Screen Interval
- Groundwater Table
- Transitional Geologic Contact
- Inferred Geologic Contact
- Sand
- Sandy Clay to Clayey Sand
- Sand to Gravelly Sand
- Clayey Sand

FIGURE 1-5

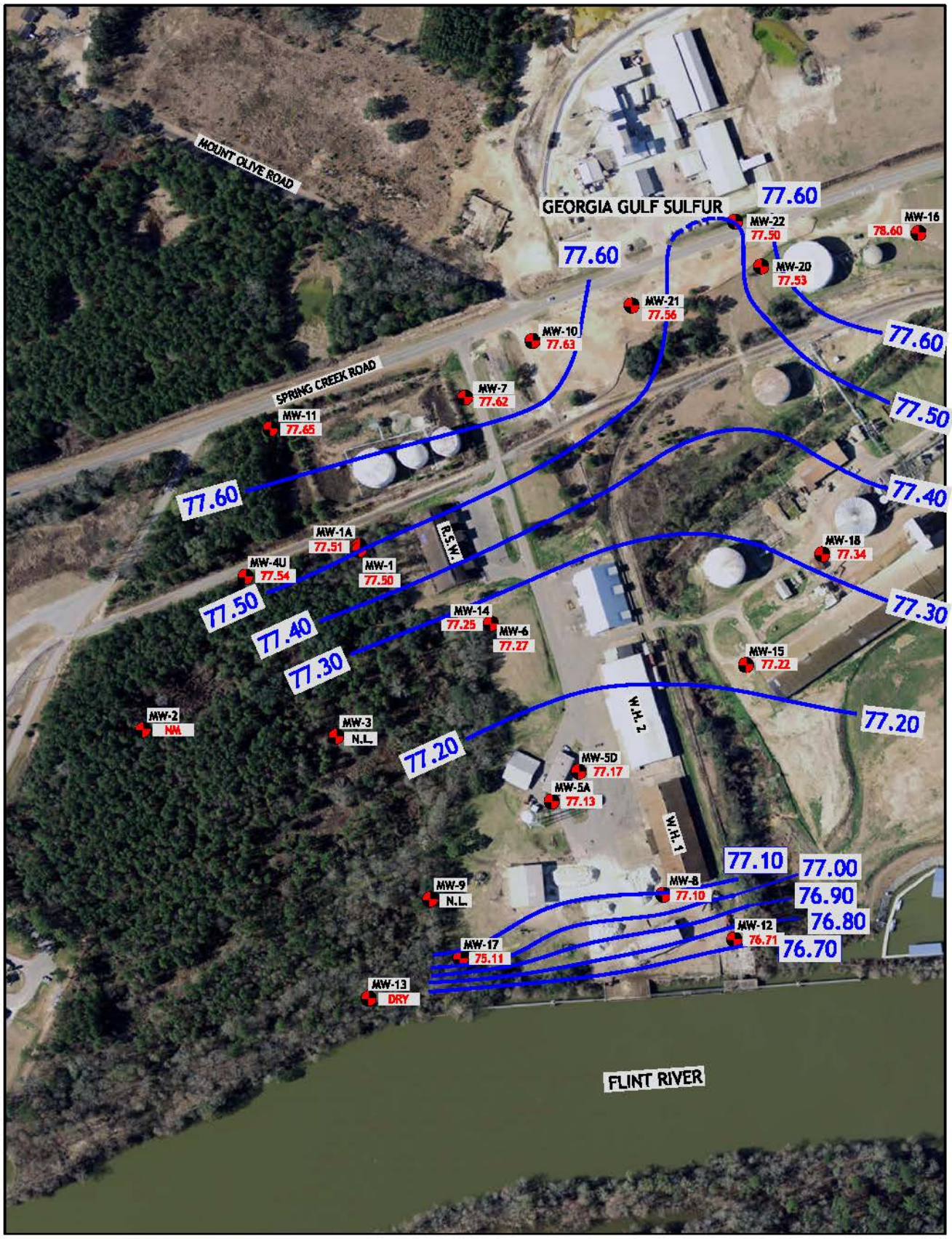
(Modified from Figure 3B (CH2MHILL, 2009))

Lithologic Cross-Section B-B'

Georgia Ports Authority, Bainbridge, GA

CH2MHILL

ES092009011ATL 101.ai



LEGEND

MW-3 MONITORING WELL

N.L. WELL NOT LOCATED

75.11 GROUNDWATER ELEVATION

NM NOT MEASURED

DRY DRY WELL

GROUNDWATER ELEVATION CONTOUR

CONTOUR INTERVAL = 0.10 FEET

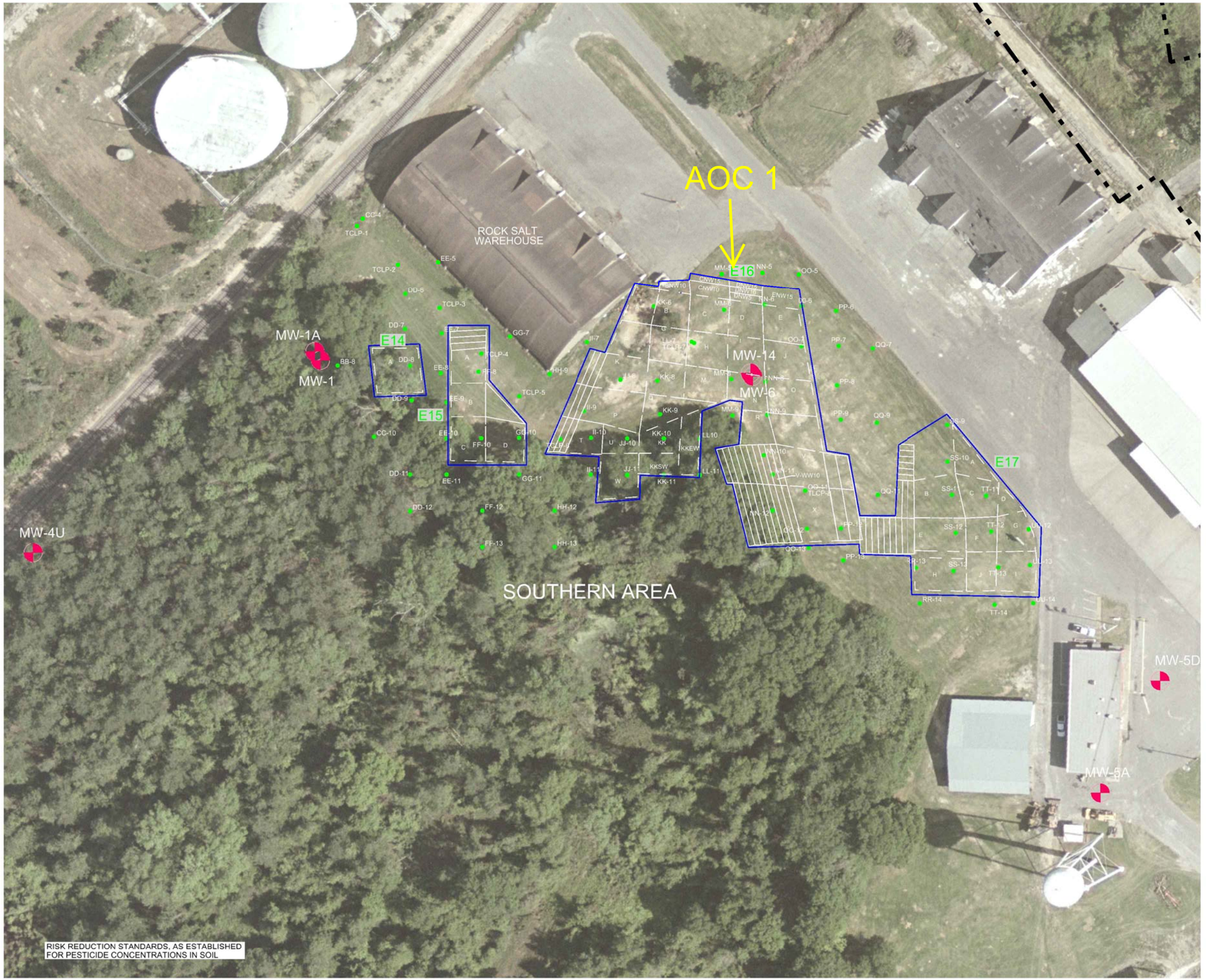
100 0 100 200 300

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 1-8
GROUNDWATER POTENTIOMETRIC SURFACE (APRIL 2012)

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

ENVIRONMENTAL INTERNATIONAL CORP.
101 KIMBALL BRIDGE ROAD
ALPHARETTA GEORGIA 30009



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 2-1

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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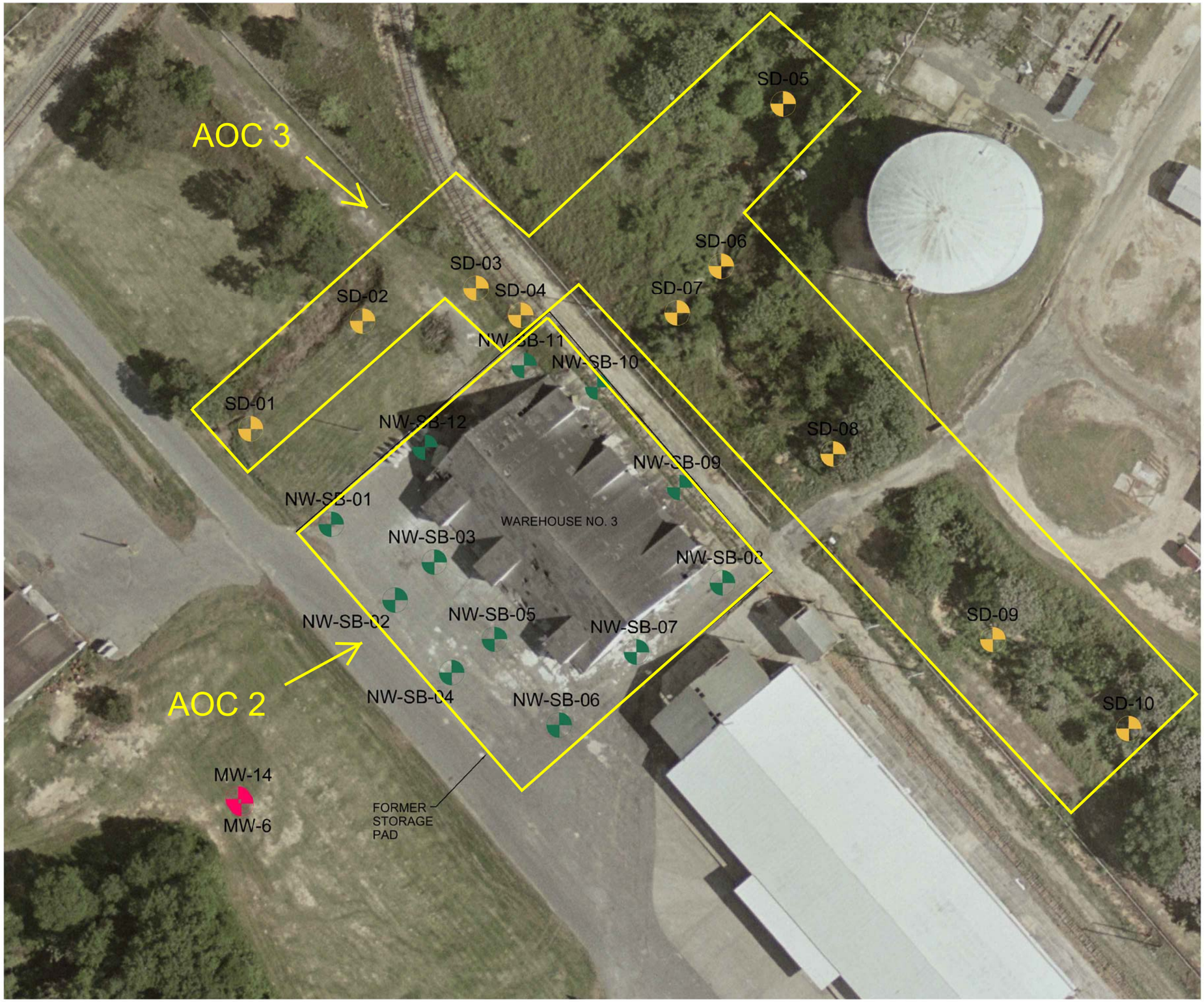
SOURCE: CH2MHILL, 2012



LEGEND:

- GROUNDWATER MONITORING WELL
- SOIL SAMPLING LOCATIONS (AOC 2)
- SOIL/SEDIMENT SAMPLING LOCATIONS (AOC 3)

FIGURE 2-2

N

0 30 60 90

811 Know what's below. Call before you dig.

DECEMBER 2011 SOIL AND SEDIMENT SAMPLING LOCATIONS AT NORTHERN WAREHOUSE

NO.	DATE	REVISION	BY	APVD

DSGN D NELSON | DR E GRIGGS | CHK | APVD

CH2MHILL

SOIL REMOVAL AREAS
SOUTHERN AND NORTHERN AREAS
BAINBRIDGE TERMINIAL

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

SOIL SAMPLE AND SOIL/SEDIMENT SAMPLING LOCATIONS
BAINBRIDGE TERMINAL
BAINBRIDGE GEORGIA

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

DATE	SEPTEMBER 2010
CH2M PROJ No.	392278.01
GPA PROJ No.	0905-0359
DWG	FIGURE 1
SHEET	

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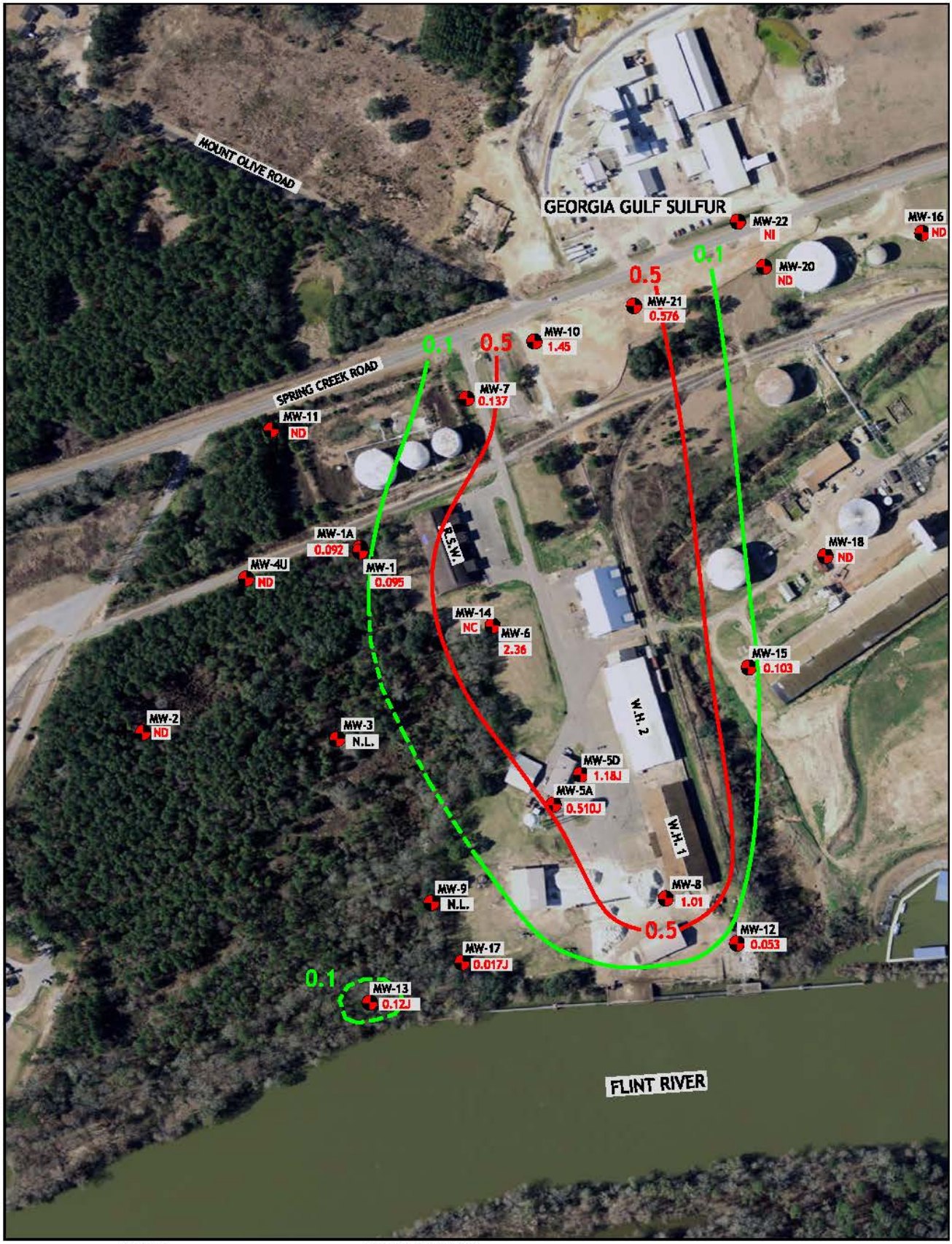
SOURCE: CH2MHILL, 2012



LEGEND

MW-3	MONITORING WELL	NC	NOT CONSIDERED
N.L.	WELL NOT LOCATED	NI	WELL NOT YET INSTALLED
4.7	BHC CONCENTRATION	NS	NOT SAMPLED
ND	NON-DETECT: "U" VALUES IN ANALYTICAL REPORT WHERE "COMPOUND WAS ANALYZED BUT NOT DETECTED"	DRY	NOT SAMPLED DUE TO DRY WELL
J	INDICATES AN "ESTIMATED VALUE": =/> MDL & < RL ACCORDING TO ANALYTICAL REPORT		

CONTOUR INTERVAL: 5 ug/L
CONTOUR LINES ARE DASHED WHERE DATA IS LIMITED
RRS LIMIT 0.5 ug/L
DELINEATION STD. 0.1 ug/L

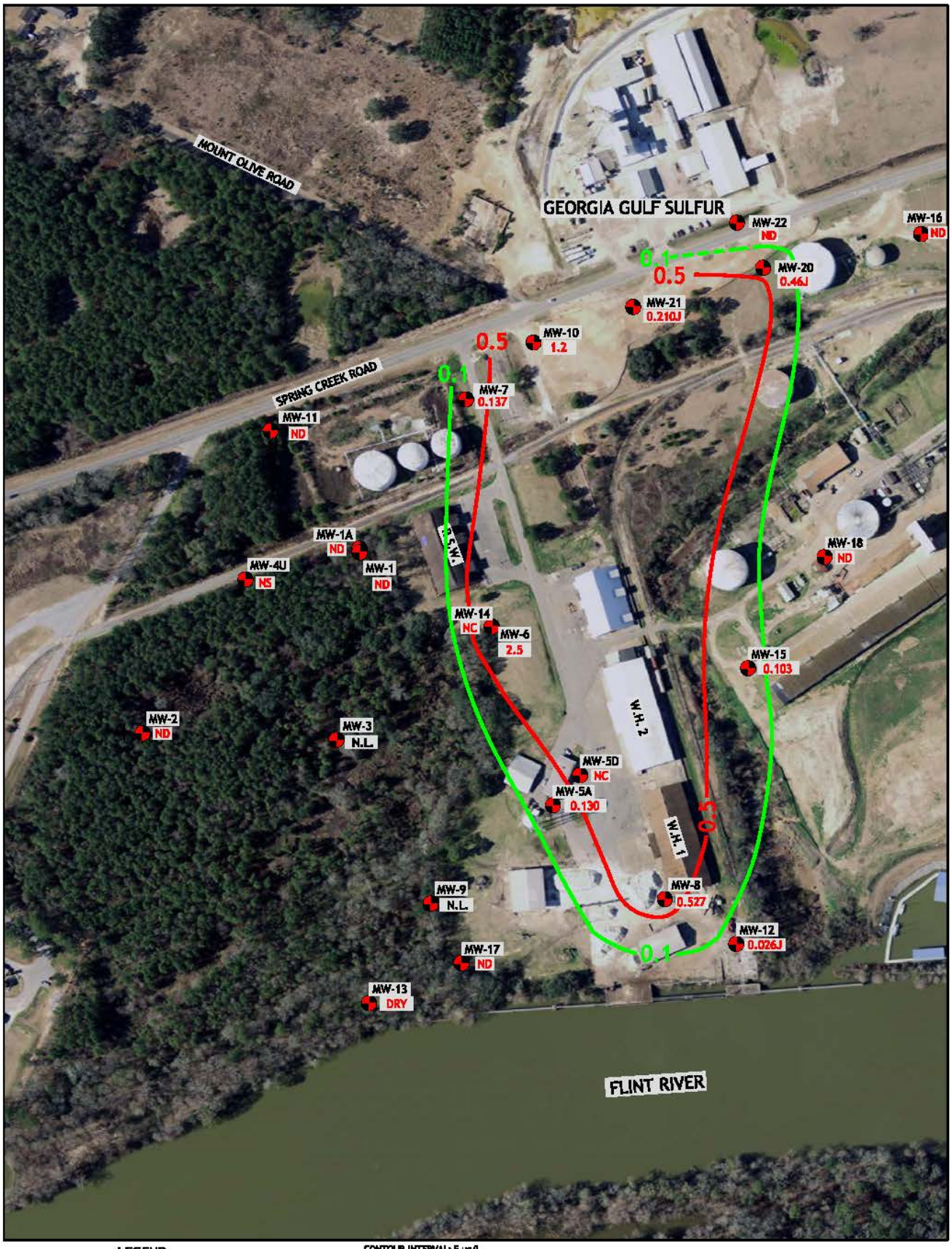
100 0 100 200 300
GRAPHICAL SCALE IN FEET
(APPROXIMATE)

SOURCE: BASEMAP MODIFIED FROM 2006 AERIAL PHOTO PROVIDED BY GEORGIA PORTS AUTHORITY
PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY
WELL LOCATIONS (APPROXIMATE) FROM GEORGIA GULF SAP AND WELL LOG MW-22
NOTE: MW-19 IS LOCATED EAST BEYOND EXTENT OF AERIAL PHOTO AND IS NOT SHOWN.
FILE: 40220\ GPA-Bainbridge\Revised Final\Report\General Figures.dwg

FIGURE 2-3
ALPHA BHC ISOCONCENTRATION CONTOUR MAP (AUGUST 2008)

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

ENVIRONMENTAL INTERNATIONAL CORP.
161 KIMBALL BRIDGE ROAD
ALPHARETTA GEORGIA 30009



LEGEND

MW-3	MONITORING WELL	NC	NOT CONSIDERED
N.L.	WELL NOT LOCATED	NI	WELL NOT YET INSTALLED
4.7	BHC CONCENTRATION	NS	NOT SAMPLED
ND	NON-DETECT: "U" VALUES IN ANALYTICAL REPORT WHERE "COMPOUND WAS ANALYZED BUT NOT DETECTED"	DRY	NOT SAMPLED DUE TO DRY WELL
J	INDICATES AN "ESTIMATED VALUE": =/> MDL & < RDL ACCORDING TO ANALYTICAL REPORT		

CONTOUR INTERVAL: 5 ug/L
CONTOUR LINES ARE DASHED WHERE DATA IS LIMITED

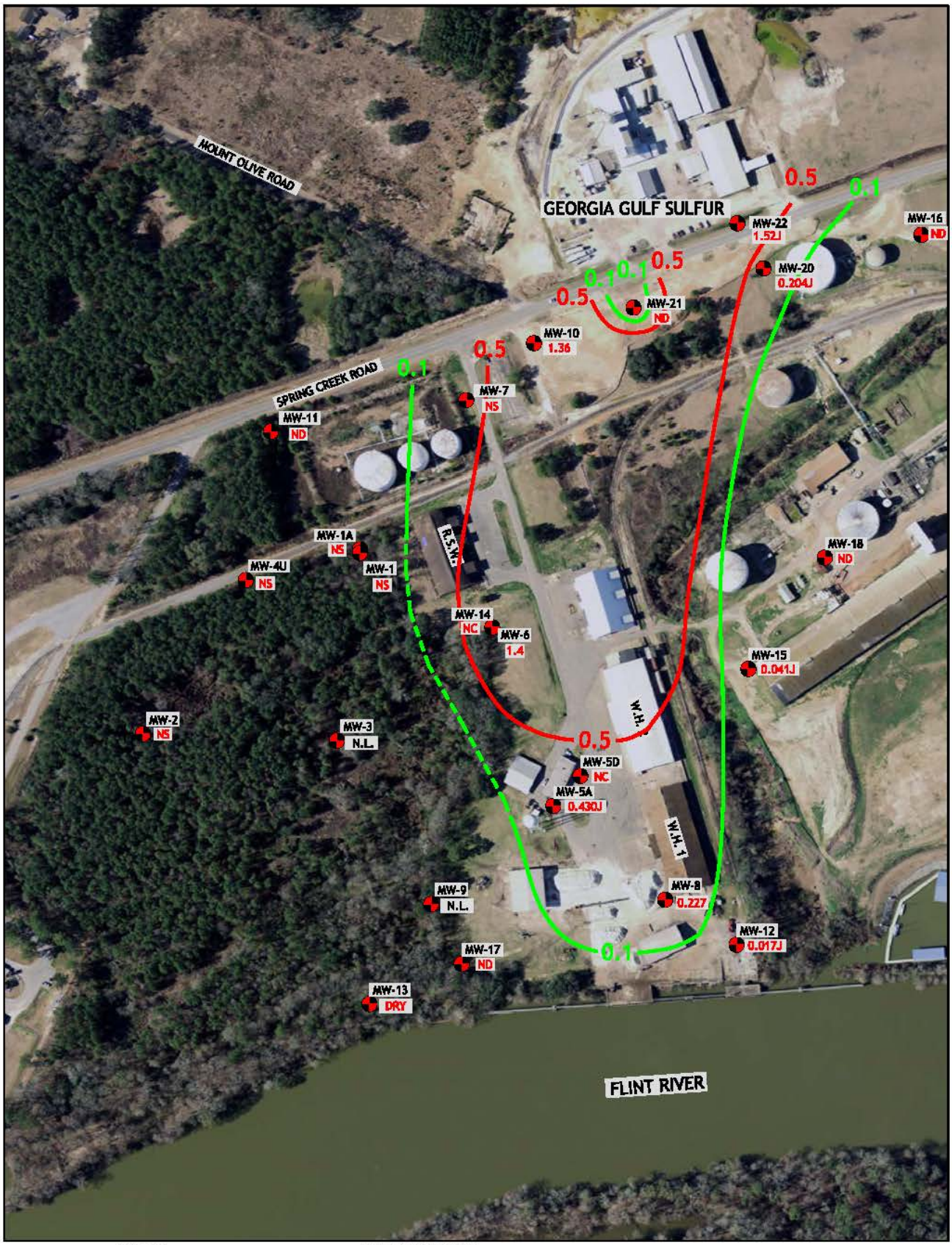
RRS LIMIT 0.5 ug/L
DELINEATION STD. 0.1 ug/L

100 0 100 200 300
GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 2-4
ALPHA BHC ISOCONCENTRATION CONTOUR MAP (JULY 2011)

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

ENVIRONMENTAL INTERNATIONAL CORP.
101 KIMBALL BRIDGE ROAD
ALPHARETTA GEORGIA 30009



LEGEND

MW-3	MONITORING WELL	NC	NOT CONSIDERED
N.L.	WELL NOT LOCATED	NI	WELL NOT YET INSTALLED
4.7	BHC CONCENTRATION	NS	NOT SAMPLED
ND	NON-DETECTS "U" VALUES IN ANALYTICAL REPORT WHERE "COMPOUND WAS ANALYZED BUT NOT DETECTED"	DRY	NOT SAMPLED DUE TO DRY WELL
J	INDICATES AN "ESTIMATED VALUE"; </> MDL & < RDL ACCORDING TO ANALYTICAL REPORT		

CONTOUR INTERVAL: 5 ug/L
CONTOUR LINES ARE DASHED WHERE DATA IS LIMITED
RRS LIMIT 0.5 ug/L
DELINEATION STD. 0.1 ug/L

100 0 100 200 300
GRAPHICAL SCALE IN FEET
(APPROXIMATE)

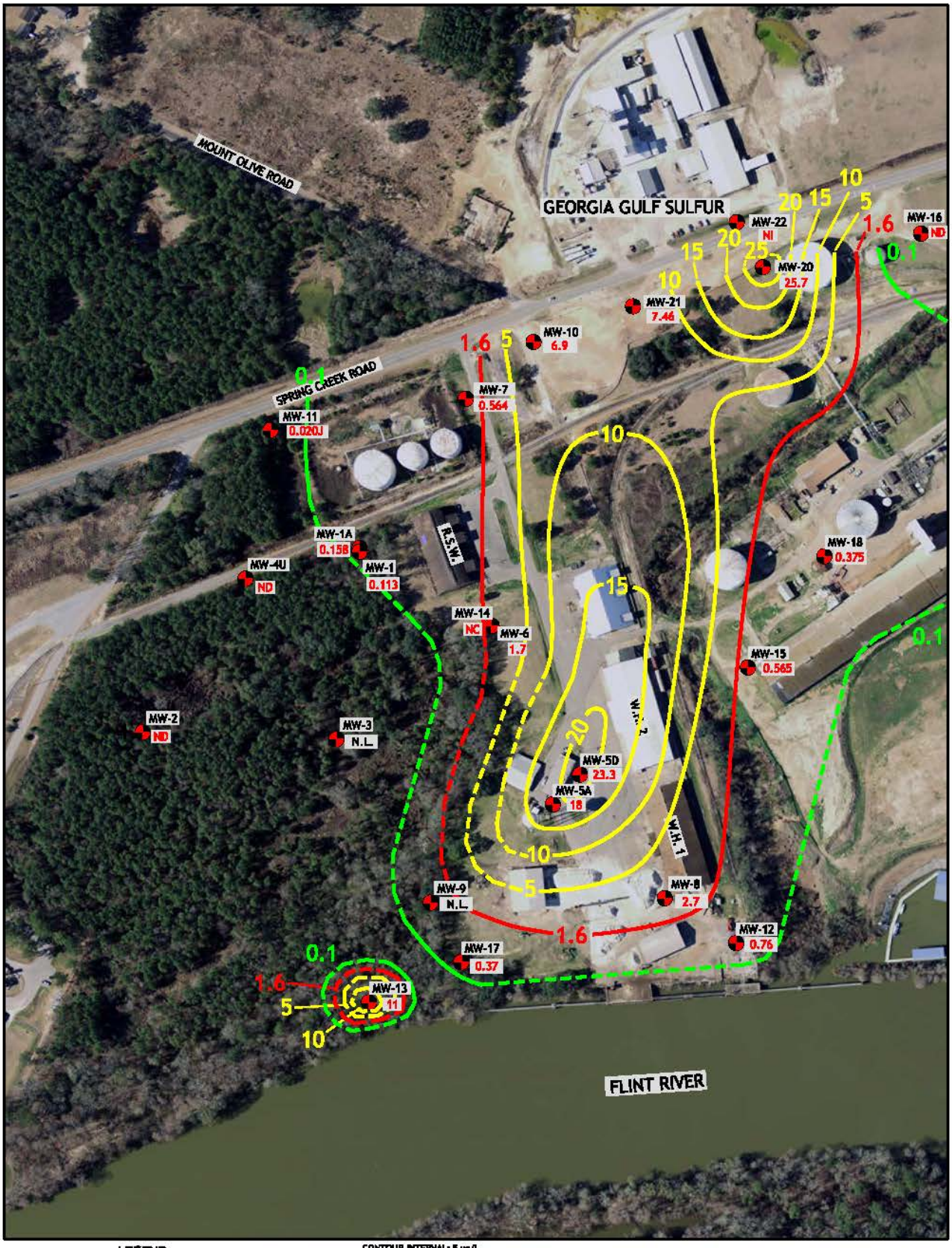
BASEMAP MODIFIED FROM 2010 AERIAL PHOTO PROVIDED BY GEORGIA PORTS AUTHORITY
PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY
SOIL BORINGS, GROUNDWATER MONITORING WELLS AND RECOVERY WELLS LOCATED BY EMI
GROUNDWATER MONITORING REPORT - APRIL 2012
NOTE: MW-19 IS LOCATED JUST BEYOND EDGE OF AERIAL PHOTO AND IS NOT SHOWN.

FILE: 40000 GPA-Bainbridge\Annual Report\Figures\Figure 2-5.dwg

FIGURE 2-5
ALPHA BHC ISOCONCENTRATION CONTOUR MAP (APRIL 2012)

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

ENVIRONMENTAL INTERNATIONAL CORP.
161 KIMBALL BRIDGE ROAD
ALPHARETTA GEORGIA 30009



LEGEND

MW-3	MONITORING WELL	NC	NOT CONSIDERED
N.L.	WELL NOT LOCATED	NI	WELL NOT YET INSTALLED
4.7	BHC CONCENTRATION	NS	NOT SAMPLED
ND	NON-DETECT "U" VALUES IN ANALYTICAL REPORT WHERE "COMPOUND WAS ANALYZED BUT NOT DETECTED"	DRY	NOT SAMPLED DUE TO DRY WELL
J	INDICATES AN "ESTIMATED VALUE": =/> MDL & < RDL ACCORDING TO ANALYTICAL REPORT		

CONTOUR INTERVAL: 5 ug/L
CONTOUR LINES ARE DASHED WHERE DATA IS LIMITED

RRS LIMIT 1.6 ug/L
DELINEATION STD. 0.1 ug/L

SOURCES: BASEMAP MODIFIED FROM 2010 AERIAL PHOTO PROVIDED BY GEORGIA PORTS AUTHORITY
PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY
WELL LOCATIONS (APPROXIMATE) FROM SHERWILL DRAFT GAP AND WELL LOG MW-22

NOTES: MW-19 IS LOCATED EAST BEYOND EXTENT OF AERIAL PHOTO AND IS NOT SHOWN. CONCENTRATION IN MW-19 IS 0.113 ug/L.

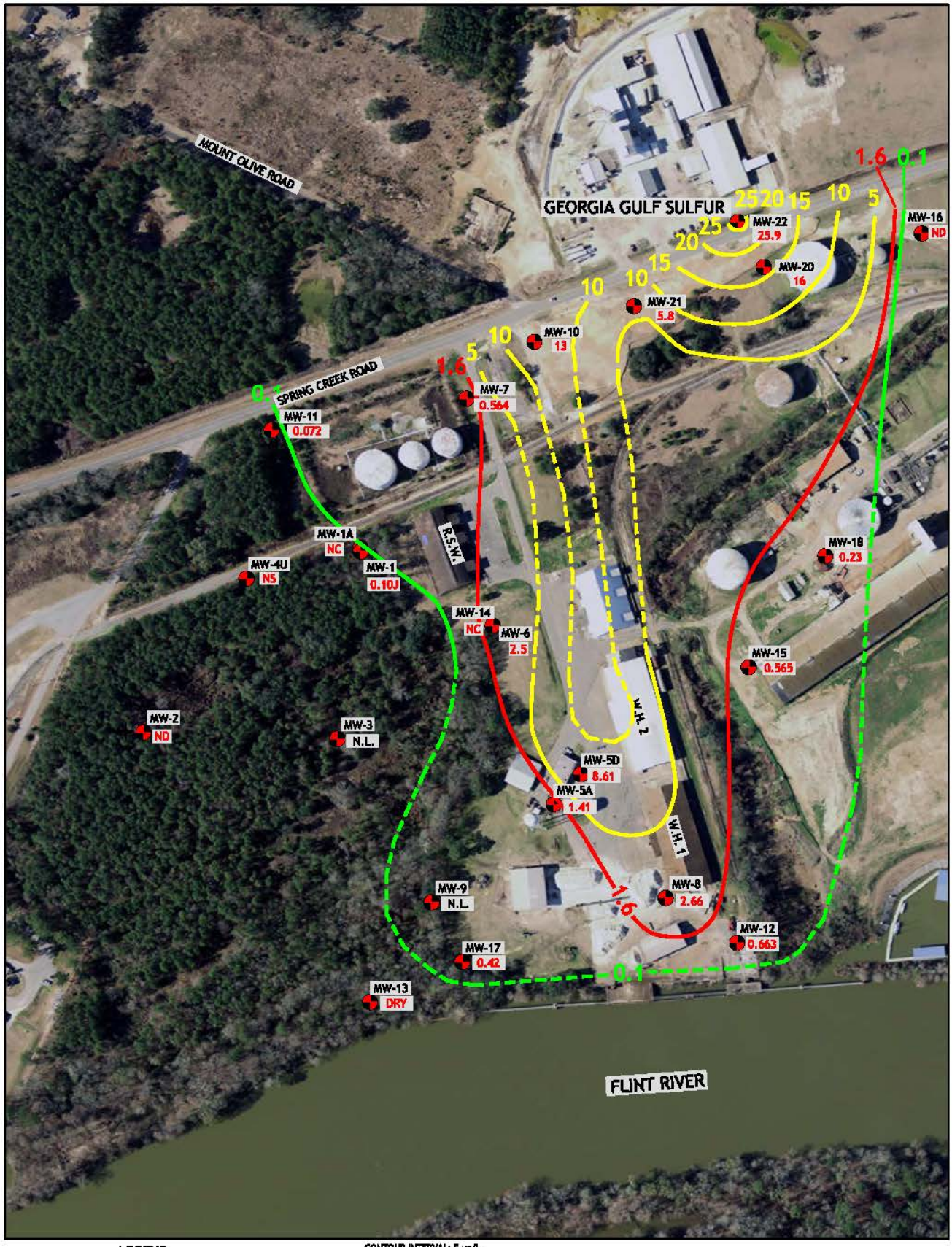
FILE: 400001 GPA-Bainbridge\Internal Issue\Report\General Figures.dwg

100 0 100 200 300
GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 2-6
BETA BHC ISOCONCENTRATION CONTOUR MAP (AUGUST 2009)

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

ENVIRONMENTAL INTERNATIONAL CORP.
101 KIMBALL BRIDGE ROAD
ALPHARETTA GEORGIA 30009



LEGEND

MW-3	MONITORING WELL	NC	NOT CONSIDERED
N.L.	WELL NOT LOCATED	NI	WELL NOT YET INSTALLED
4.7	BHC CONCENTRATION	NS	NOT SAMPLED
ND	NON-DETECT "U" VALUES ON ANALYTICAL REPORT WHERE "COMPOUND WAS ANALYZED BUT NOT DETECTED"	DRY	NOT SAMPLED DUE TO DRY WELL
J	INDICATES AN "ESTIMATED VALUE": =/> MDL & < RDL ACCORDING TO ANALYTICAL REPORT		

CONTOUR INTERVAL: 5 ug/L
CONTOUR LINES ARE DASHED WHERE DATA IS LIMITED
RRS LIMIT 1.6 ug/L
DELINEATION STD. 0.1 ug/L

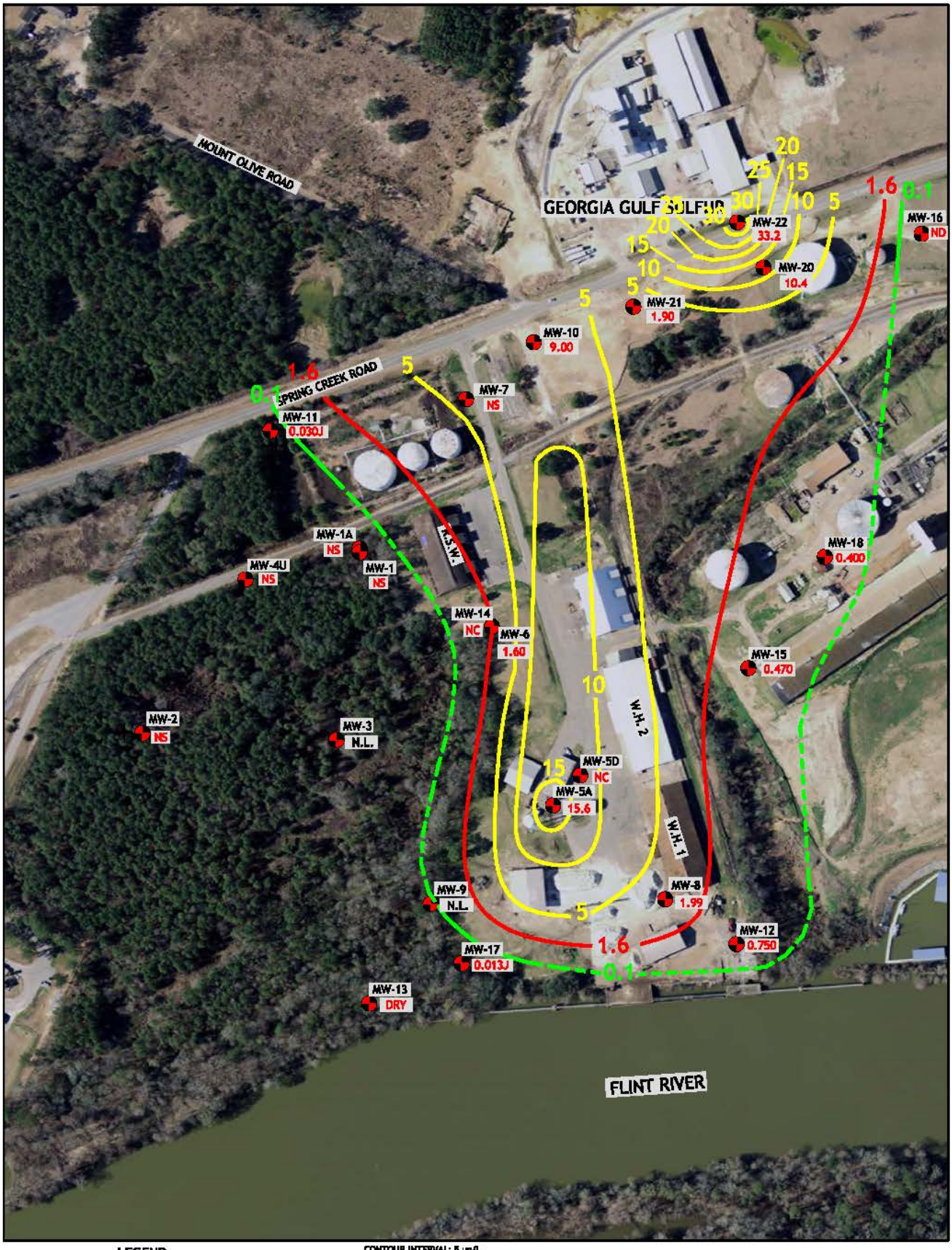
SOURCES: BASEMAP ADOPTED FROM 2010 AERIAL PHOTOGRAPHY BY GEORGIA PORTS AUTHORITY
PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY
WELL LOCATIONS (APPROXIMATE) FROM CHISHOLM DRAFT CAP AND WELL LOG MW-22

NOTES: MW-13 IS LOCATED EAST BEYOND EXTENT OF AERIAL PHOTO AND IS NOT SHOWN.

FILE: 402281 GPA-Baldridge\Account Issue\Report\Beta Figures.dwg

100 0 100 200 300
GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 2-7
BETA BHC ISOCONCENTRATION CONTOUR MAP (JULY 2011)
GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA
ENVIRONMENTAL INTERNATIONAL CORP.
181 KIMBALL BRIDGE ROAD
ALPHARETTA GEORGIA 30009
Figure 1.dwg



LEGEND

MW-3	MONITORING WELL	NC	NOT CONSIDERED
N.L.	WELL NOT LOCATED	NI	WELL NOT YET INSTALLED
4.7	BHC CONCENTRATION	NS	NOT SAMPLED
ND	NON-DETECT: "U" VALUES IN ANALYTICAL REPORT WHERE "COMPOUND WAS ANALYZED BUT NOT DETECTED"	DRY	NOT SAMPLED DUE TO DRY WELL
J	INDICATES AN "ESTIMATED VALUE": =/> MDL & < MDL ACCORDING TO ANALYTICAL REPORT		

CONTOUR INTERVAL: 5 ug/L
CONTOUR LINES ARE DASHED WHERE DATA IS LIMITED

RRS LIMIT 1.6 ug/L
DELINEATION STD. 0.1 ug/L

100 0 100 200 300
GRAPHICAL SCALE IN FEET
(APPROXIMATE)

SOURCES: BASEMAP MODIFIED FROM 2010 AERIAL PHOTO PROVIDED BY GEORGIA PORTS AUTHORITY
PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY
WELL LOCATIONS (APPROXIMATE) FROM CHAMPLE DRAFT CAP AND WELL LOG MW-22

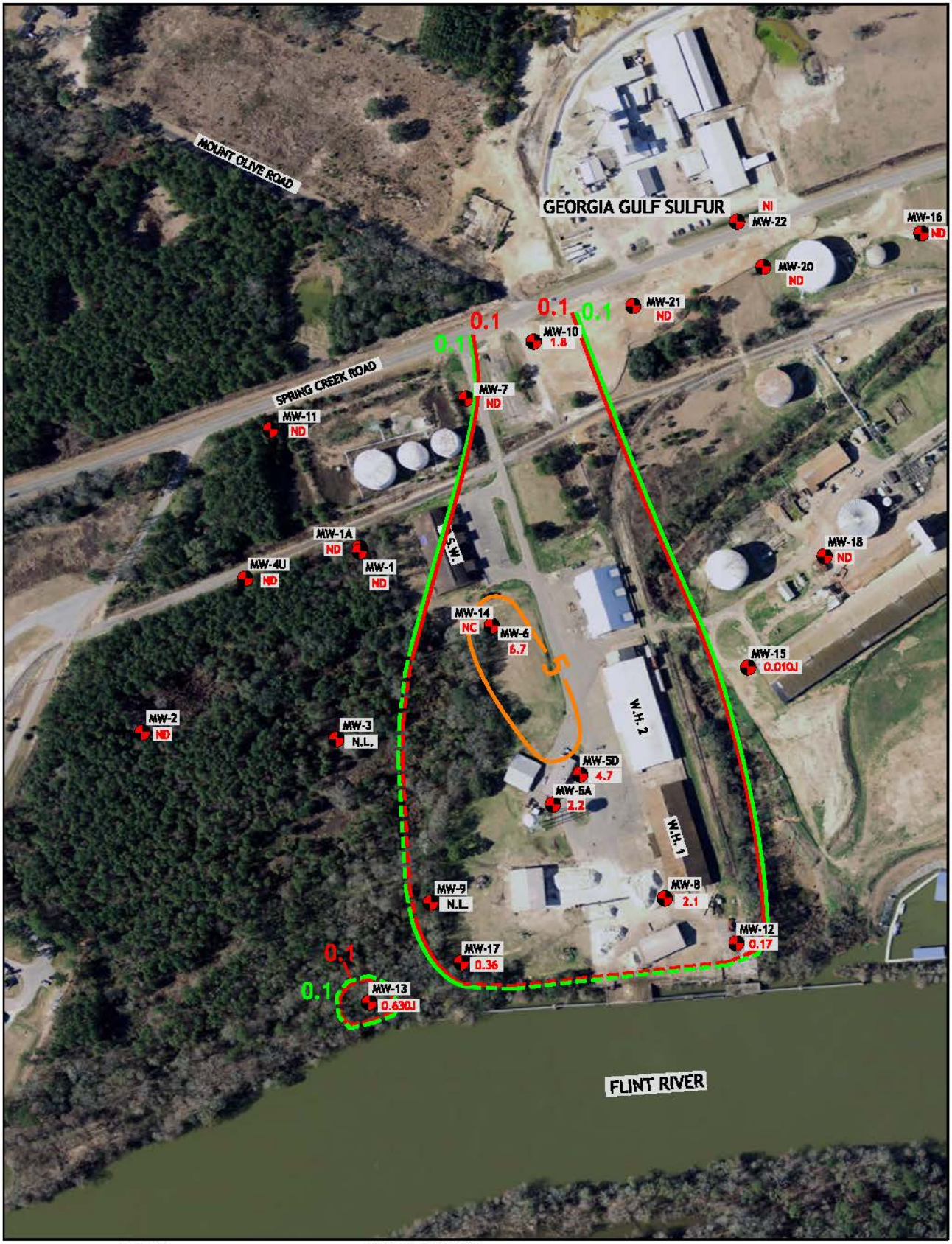
NOTES: MW-10 IS LOCATED EAST BEYOND EXTENT OF AERIAL PHOTO AND IS NOT SHOWN.

FILE: [illegible]

FIGURE 2-8
BETA BHC ISOCONCENTRATION CONTOUR MAP (APRIL 2012)

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

ENVIRONMENTAL INTERNATIONAL CORP.
161 KIMBALL BRIDGE ROAD
ALPHARETTA GEORGIA 30009



LEGEND

MW-3	MONITORING WELL	NC	NOT CONSIDERED
N.L.	WELL NOT LOCATED	NI	WELL NOT YET INSTALLED
4.7	BHC CONCENTRATION	NS	NOT SAMPLED
ND	NON-DETECT: "U" VALUES IN ANALYTICAL REPORT WHERE "COMPOUND WAS ANALYZED BUT NOT DETECTED"	DRY	NOT SAMPLED DUE TO DRY WELL
J	INDICATES AN "ESTIMATED VALUE": =/> MDL & < RDL ACCORDING TO ANALYTICAL REPORT		

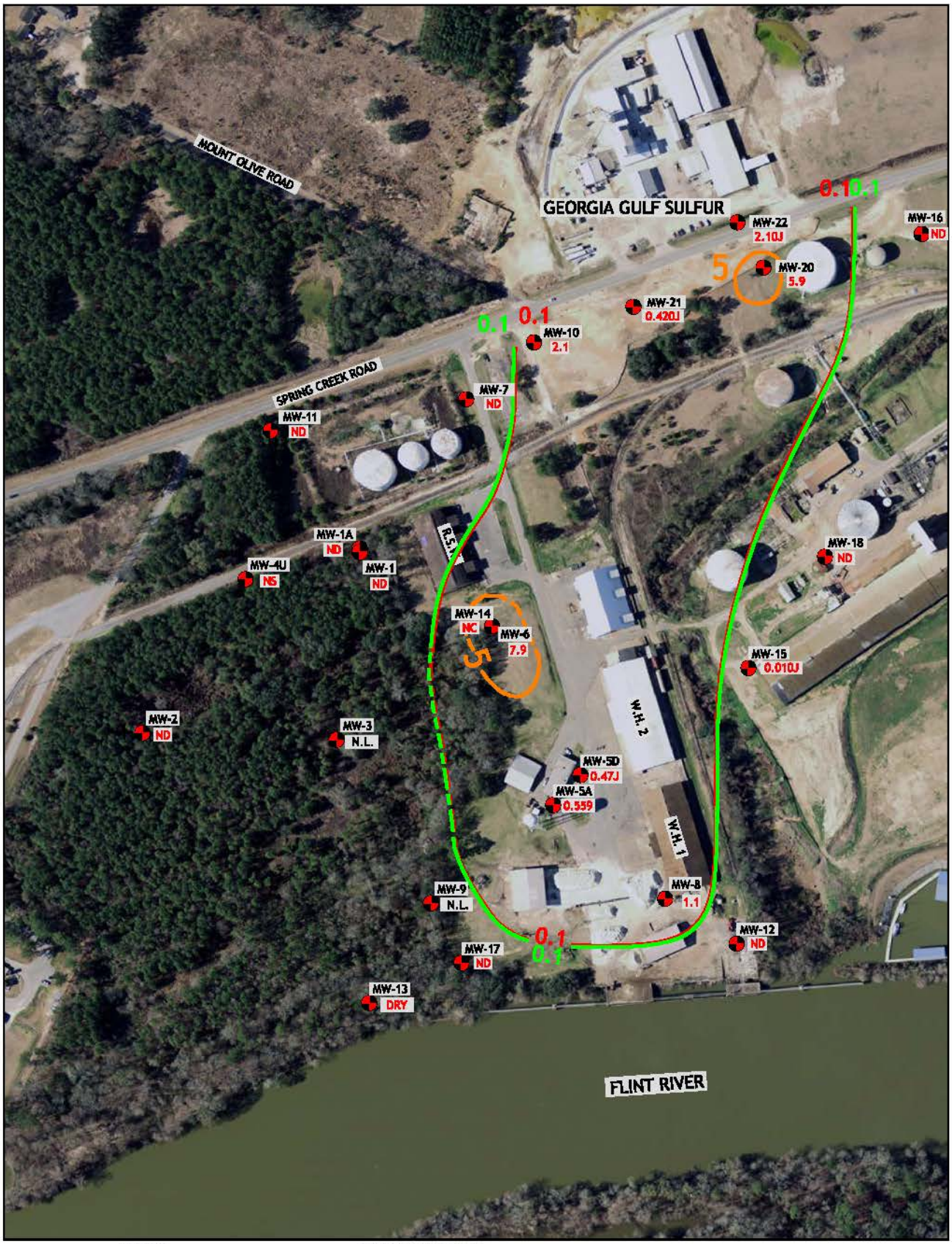
CONTOUR INTERVAL: 5 ug/L
CONTOUR LINES ARE DASHED WHERE DATA IS LIMITED
RRS LIMIT 0.1 ug/L
DELINEATION STD. 0.1 ug/L

100 0 100 200 300
GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 2-9
DELTA BHC ISOCONCENTRATION CONTOUR MAP (AUGUST 2009)

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

ENVIRONMENTAL INTERNATIONAL CORP.
161 KIMBALL BRIDGE ROAD
ALPHARETTA



LEGEND

MW-3	MONITORING WELL	NC	NOT CONSIDERED
N.L.	WELL NOT LOCATED	NI	WELL NOT YET INSTALLED
4.7	BHC CONCENTRATION	NS	NOT SAMPLED
ND	NON-DETECT: "U" VALUES IN ANALYTICAL REPORT WHERE "COMPOUND WAS ANALYZED BUT NOT DETECTED"	DRY	NOT SAMPLED DUE TO DRY WELL
J	INDICATES AN "ESTIMATED VALUE": =/> MDL & < RDL ACCORDING TO ANALYTICAL REPORT		

CONTOUR INTERVAL: 5 ug/L
CONTOUR LINES ARE DASHED WHERE DATA IS LIMITED

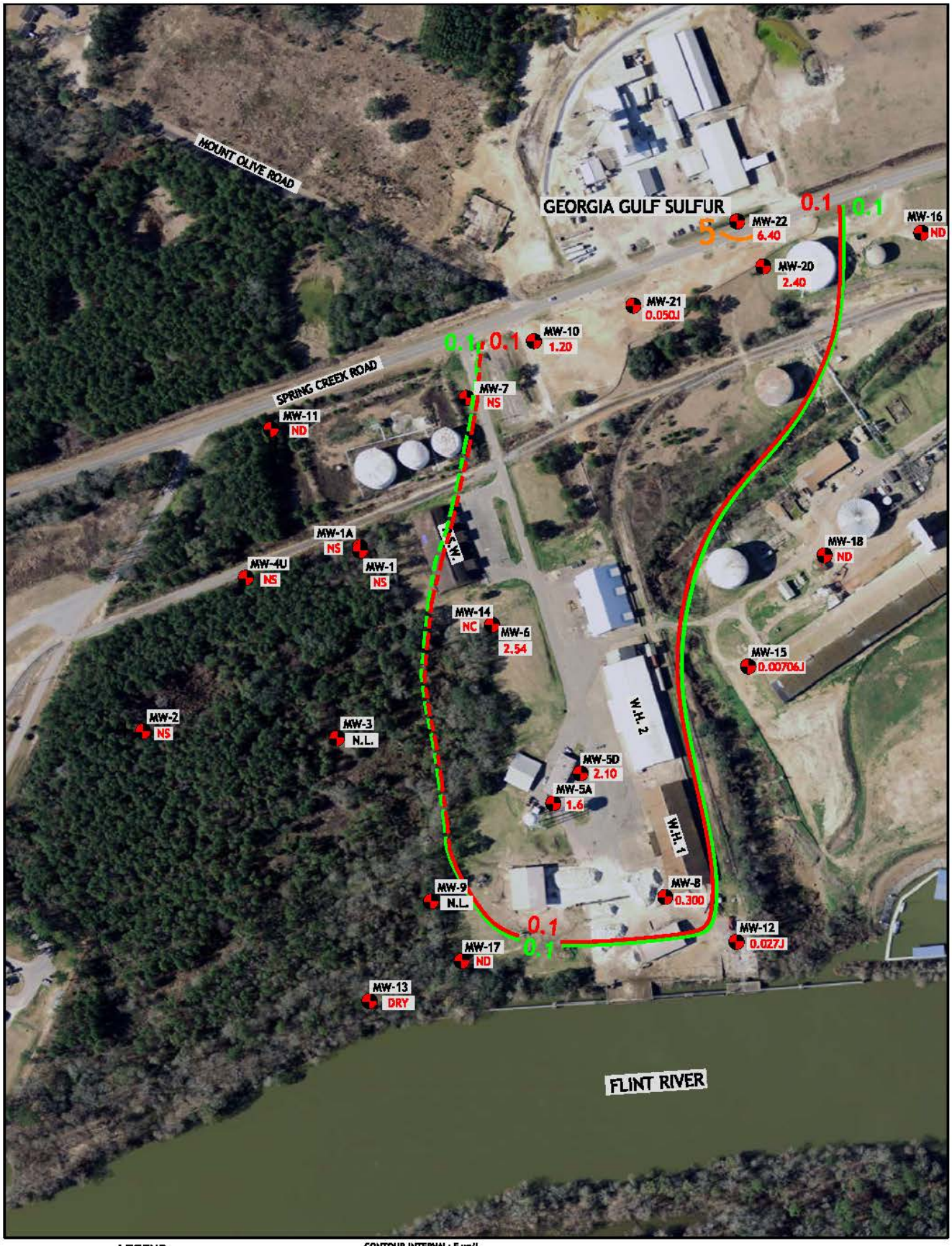
RRS LIMIT 0.1 ug/L
DELINEATION STD. 0.1 ug/L

100 0 100 200 300
GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 2-10
DELTA BHC ISOCONCENTRATION CONTOUR MAP (JULY 2011)

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

ENVIRONMENTAL INTERNATIONAL CORP.
101 KIMBALL BRIDGE ROAD
ALPHARETTA GEORGIA 30009



LEGEND

MW-3	MONITORING WELL	NC	NOT CONSIDERED
N.L.	WELL NOT LOCATED	NI	WELL NOT YET INSTALLED
4.7	BHC CONCENTRATION	NS	NOT SAMPLED
ND	NON-DETECT: "U" VALUES IN ANALYTICAL REPORT WHERE "COMPOUND WAS ANALYZED BUT NOT DETECTED"	DRY	NOT SAMPLED DUE TO DRY WELL
J	INDICATES AN "ESTIMATED VALUE": =/> MDL & < RDL ACCORDING TO ANALYTICAL REPORT		

CONTOUR INTERVAL: 5 ug/L
CONTOUR LINES ARE DASHED WHERE DATA IS LIMITED

RRS LIMIT 0.1 ug/L
DELINEATION STD. 0.1 ug/L

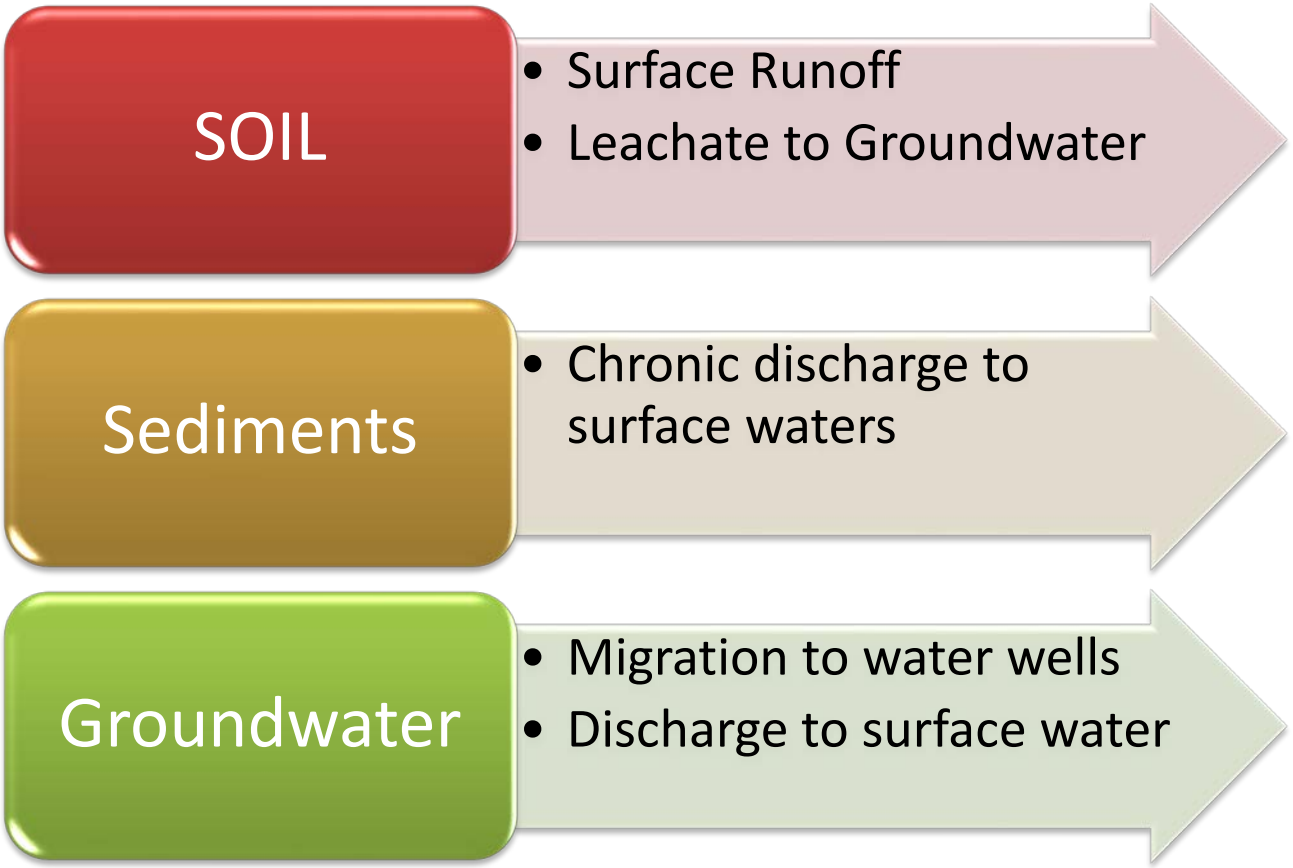
100 0 100 200 300
GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 2-11
DELTA BHC ISOCONCENTRATION
CONTOUR MAP (APRIL 2012)

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

ENVIRONMENTAL INTERNATIONAL CORP.
101 KIMBALL BRIDGE ROAD
ALPHARETTA GEORGIA 30009

Figure 2-12: Potential COC Migration Pathways





LEGEND:

- GROUNDWATER MONITORING WELL
- APPROXIMATE PROPERTY BOUNDARY
- DASHED LINES INDICATE EXTENT REQUIRES VARIFICATION
- AREAL EXTENT OF SOIL EXCEEDING RRS VALUES
- 10 UNCONFIRMED - CONTAMINANT LEVELS REMAIN ABOVE RRS VALUE AT BOTTOM FLOOR ELEVATION
- 10 CONFIRMED - NO CONTAMINANT LEVELS REMAIN ABOVE RRS VALUES AT BOTTOM FLOOR ELEVATION

FIGURE 4-1

Proposed Security Fencing Map (GPA, 2012)

811 Know what's below. Call before you dig.

EXCAVATION AND REMOVAL ALTERNATIVE

NO.	DATE	REVISION	BY	APVD
1	12/16		DR	APVD

DSGN D NELSON E GRIGGS CHK

CH2MHILL

SOIL REMOVAL AREAS SOUTHERN AND NORTHERN AREAS BAINBRIDGE TERMINAL

Georgia Ports Authority

SOIL REMOVAL AND DISPOSAL BAINBRIDGE TERMINAL BAINBRIDGE, GEORGIA

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

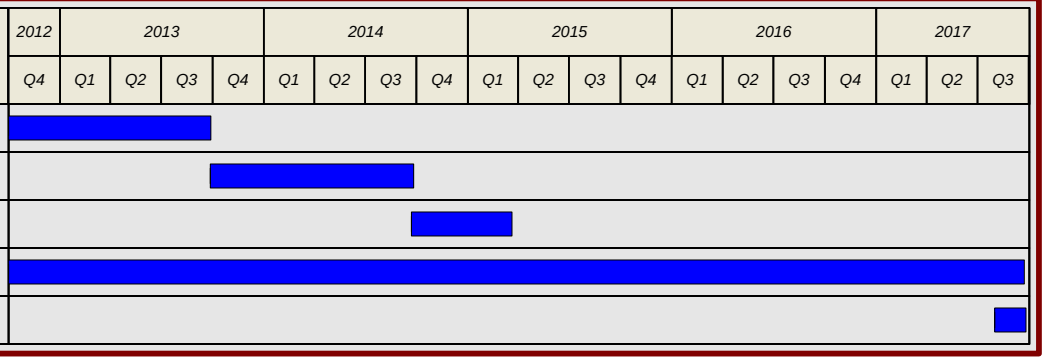
DATE	
CH2M PROJ No.	392278.01
GPA PROJ No.	0905-0359
DWG	BBT-C-2008
SHEET	

FILENAME: BBT-C-2008.dgn PLOT DATE: 9/23/2010 PLOT TIME: 9:21:41 AM

©CH2M HILL 2004. ALL RIGHTS RESERVED.
REUSE OF DOCUMENTS: THIS DOCUMENT IS AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.
ISSUED FOR CONSTRUCTION

FIGURE 5-1: PROJECTED SCHEDULE

Step	Task Name	Start	Finish	Duration
1	MNA CALIBRATION	10/1/2012	9/27/2013	52w
2	MNA TREND ANALYSIS	9/27/2013	9/25/2014	52w
3	MNA CONFIRMATION	9/22/2014	3/20/2015	26w
4	MANAGEMENT OF CONTAMINATED SOILS	10/1/2012	9/22/2017	260w
5	SITE CLOSURE	8/1/2017	9/25/2017	8w



Note: MNA-based remediation will be in process throughout the 5 steps

BHC REMEDIATION, BAINBRIDGE TERMINAL, BAINBRIDGE, GEORGIA

VIRP APPLICATION

ATTACHMENTS

BHC REMEDIATION, BAINBRIDGE TERMINAL, BAINBRIDGE, GEORGIA

VIRP APPLICATION

ATTACHMENT A

VIRP Application Form and Checklist

Voluntary Investigation and Remediation Plan Application Form and Checklist

VRP APPLICANT INFORMATION					
COMPANY NAME	Georgia Ports Authority				
CONTACT PERSON/TITLE	Christopher B. Novack, P.E.				
ADDRESS	PO Box 2406 Savannah GA 31402				
PHONE	912-624-3922	**FAX**	912-964-3918	**E-MAIL**	cnovack@gaports.com

GEORGIA CERTIFIED PROFESSIONAL GEOLOGIST OR PROFESSIONAL ENGINEER OVERSEEING CLEANUP					
NAME	Raj Mahadevaiah			**GA PE/PG NUMBER**	23198
COMPANY	Environmental International Corporation				
ADDRESS	161 Kimball Bridge Road, Suite 100, Alpharetta, GA 30009				
PHONE	770-772-7100	**FAX**	770-772-0555	**E-MAIL**	rajmahadevaiah@eicusa.com

APPLICANT'S CERTIFICATION

In order to be considered a qualifying property for the VRP:

(1) The property must have a release of regulated substances into the environment;
(2) The property shall not be:
- (A) Listed on the federal National Priorities List pursuant to the federal Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. Section 9601.
- (B) Currently undergoing response activities required by an order of the regional administrator of the federal Environmental Protection Agency; or
- (C) A facility required to have a permit under Code Section 12-8-66.

(3) Qualifying the property under this part would not violate the terms and conditions under which the division operates and administers remedial programs by delegation or similar authorization from the United States Environmental Protection Agency.
(4) Any lien filed under subsection (e) of Code Section 12-8-96 or subsection (b) of Code Section 12-13-12 against the property shall be satisfied or settled and released by the director pursuant to Code Section 12-8-94 or Code Section 12-13-6.

In order to be considered a participant under the VRP:
- (1) The participant must be the property owner of the voluntary remediation property or have express permission to enter another's property to perform corrective action.
- (2) The participant must not be in violation of any order, judgment, statute, rule, or regulation subject to the enforcement authority of the director.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, 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.

I also certify that this property is eligible for the Voluntary Remediation Program (VRP) as defined in Code Section 12-8-105 and I am eligible as a participant as defined in Code Section 12-8-106.

APPLICANT'S SIGNATURE			
APPLICANT'S NAME/TITLE (PRINT)	CHRISTOPHER B. NOVACK, P.E. DIRECTOR OF ENGINEERING & FACILITIES MAINTENANCE	**DATE**	JULY 25, 2013

QUALIFYING PROPERTY INFORMATION (For additional qualifying properties, please refer to the last page of application form)				
HAZARDOUS SITE INVENTORY INFORMATION (if applicable)				
HSI Number	10071	Date HSI Site listed	July 1 2009	
HSI Facility Name	Georgia Ports Authority	NAICS CODE	4491	
PROPERTY INFORMATION				
TAX PARCEL ID	Land Lot 373, Parcels: 20, 21A, and portions of Parcels 18 and 19 (See Attachments B-F)	PROPERTY SIZE (ACRES)	64.6	
PROPERTY ADDRESS	1321 Spring Creek Road			
CITY	Bainbridge	COUNTY	Decatur	
STATE	GA	ZIPCODE	39817	
LATITUDE (decimal format)	30.898889	LONGITUDE (decimal format)	84.6075	
PROPERTY OWNER INFORMATION				
PROPERTY OWNER(S)	Georgia Ports Authority	PHONE #	912-964-3922	
MAILING ADDRESS	Mr. Christopher Novack, PO Box 2406			
CITY	Savannah	STATE/ZIPCODE	Georgia, 31402	

ITEM #	DESCRIPTION OF REQUIREMENT	Location in VRP (i.e. pg., Table #, Figure #, etc.)	For EPD Comment Only (Leave Blank)
1.	**$5,000 APPLICATION FEE** IN THE FORM OF A CHECK PAYABLE TO THE GEORGIA DEPARTMENT OF NATURAL RESOURCES. (PLEASE LIST CHECK DATE AND CHECK NUMBER IN COLUMN TITLED "LOCATION IN VRP." PLEASE DO NOT INCLUDE A SCANNED COPY OF CHECK IN ELECTRONIC COPY OF APPLICATION.)	**Attached**	
2.	**WARRANTY DEED(S)** FOR QUALIFYING PROPERTY.	**Attachment B**	
3.	**TAX PLAT** OR OTHER FIGURE INCLUDING QUALIFYING PROPERTY BOUNDARIES, ABUTTING PROPERTIES, AND TAX PARCEL IDENTIFICATION NUMBER(S).	**Attachments C-F**	
4.	**ONE (1) PAPER COPY AND TWO (2) COMPACT DISC (CD) COPIES** OF THE VOLUNTARY REMEDIATION PLAN IN A SEARCHABLE PORTABLE DOCUMENT FORMAT (PDF).	**Attached**	
5.	**A. Conceptual Site Model** **B. Preliminary Remediation Plan:** **C. Table of Delineation Standards:** **D. Surface and Sub-surface Setting:**	**Section 2; Tables 2-1 to 2-6; Fig. 2-1 to 2-12** **Section 4; Fig. 4-1** **Section 1.5; Tables 1-1 & 1-2** **Section 1; Fig. 1-1, 1-3 to 1-6**	

	E. Known or Suspected Sources of Contamination: **F. Potential Movement of Contamination within the Environment:** **G. Potential Human Health and Ecological Receptors:** **H. Complete and/or Incomplete Exposure Pathways:** **I. Project Schedule:**	**Sections 1 & 2; Figure 1-1** **Sections 2.3, 2.4, 2.6, 2.7; Figures 2-3 to 2-12** **Section 2.5** **Section 2** **Section 5**	
5.a.	Within the first 12 months after enrollment, the participant must complete horizontal delineation of the release and associated constituents of concern on property where access is available at the time of enrollment;	**Section 5.1**	
5.b.	Within the first 24 months after enrollment, the participant must complete horizontal delineation of the release and associated constituents of concern extending onto property for which access was not available at the time of enrollment;	**Section 5.2**	
5.c.	Within 30 months after enrollment, the participant must update the site CSM to include vertical delineation, finalize the remediation plan and provide a preliminary cost estimate for implementation of remediation and associated continuing actions; and	**Section 5.3**	
5.d.	Within 60 months after enrollment, the participant must submit the compliance status report required under the VRP, including the requisite certifications.	**Section 5.5**	
6.	**SIGNED AND SEALED PE/PG CERTIFICATION** AND SUPPORTING DOCUMENTATION: "I certify under penalty of law that this report 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/professional geologist 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 Remediation Plan 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." G [illegible] 7/27/12 Printed Name and GA PE/PG Number Date GEORGIA REGISTERED No. 23198 PROFESSIONAL ENGINEER PASAVARAJ MAHADEVAIAH Signature and Stamp		

BHC REMEDIATION, BAINBRIDGE TERMINAL, BAINBRIDGE, GEORGIA

VIRP APPLICATION

ATTACHMENT B

Site Warranty Deed & Legal Description

D-8
358

DEED OF CORRECTION 358

STATE OF GEORGIA
COUNTY OF FULTON

THIS INDENTURE, Made as of the 15th day of June, in the Year of Our Lord One Thousand Nine Hundred and Sixty-Four (1964), between the STATE OF GEORGIA, as First Party, and the GEORGIA PORTS AUTHORITY, as Second Party,

W I T N E S S E T H:

WHEREAS, the State of Georgia was duly authorized to convey certain real property in Decatur, Glynn and Richmond Counties to the Georgia Ports Authority (Georgia Laws, 1959, P. 145-151), and

WHEREAS, said State, First Party, did heretofore on the 18th day of March, 1959, convey said real property in the Counties of Decatur, Glynn and Richmond, in the State of Georgia, to the "State Ports Authority", and

WHEREAS, the name of the "State Ports Authority" was changed to "Georgia Ports Authority" in 1949 (Georgia Laws, 1949, P. 778-780), and

WHEREAS said conveyance by First Party should properly have been made to the "Georgia Ports Authority", and

WHEREAS, the description of the tract of 35.25 acres, in Decatur County, Georgia, contains an error in that one of the directional calls is omitted, and

WHEREAS, the Parties hereto desire to correct the errors made in said Instrument of March 18, 1959, and to properly and satisfactorily name the Grantee and correctly describe the property conveyed:

NOW THEREFORE, in consideration of the premises and in order to correct the prior Instrument above referred to and

RECEIVED
Oct 6 3 36 PM '64
BEN W. FORTSON
SECRETARY OF STATE

other valuable considerations flowing between the Parties, this Deed of Correction is made and delivered and the First Party does hereby grant, bargain, sell and convey, and by these does hereby grant, bargain, sell and convey unto the Second Party, its successors and assigns, the following described property, to wit:

> All that tract or parcel of land, situate, lying and being in Richmond County, Georgia, east of the corporate limits of the City of Augusta and north of the Sand Bar Ferry Road, containing seventy-eight (78) acres, more or less, and beginning at a point on the toe of the Levee nineteen hundred and twenty-five feet (1925) east of the East Boundary at a point identified on a map of the Department of Public Works, Augusta, Georgia, dated 26 August, 1958, by the letter 'D'; thence in a generally northerly direction a distance of two hundred and thirty-five feet (235), more or less, to the south waterline of the Savannah River to a point identified on said map by the letter 'A'; thence in a generally easterly direction along the south waterline of the Savannah River a distance of seventy-one hundred and fifty feet (7150), more or less, to a point identified on said map by the letter 'B'; thence in a generally southwesterly direction a distance of three hundred fifteen feet (315), more or less, to a point on the toe of the Levee identified on said map by the letter 'C'; thence in a generally westerly direction along the toe of the Levee a distance of sixty-six hundred and fifty feet (6650) to the point of beginning; bounded on the North by the Savannah River; on the East and South by other property of the City Council of Augusta and on the West by property of the Texas Company. All as shown upon said map on which said tract is designated "Tract A", which map is attached to the deed from the City Council of Augusta to the State of Georgia, dated September 3, 1958, and which said deed is on file in the office of the Secretary of State of Georgia, and by reference made a part hereof.
>
> Expressly reserved from this conveyance of the above described property is an easement in, over and upon the southernmost twelve feet (12) thereof, as a road for levee maintenance and other purposes, which easement is also shown on said map.

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ALSO, all that tract or parcel of land, situate, lying and being in Richmond County, Georgia, east of the corporate limits of the City of Augusta, containing two and two-tenths (2.2) acres, on the North side of the Sand Bar Ferry Road, on which it fronts seventy-nine and two-tenths (79.2) feet, and extends back in a northeasterly direction a distance of twelve hundred eighty-one and three-tenths (1281.3) feet on its western line and a distance of twelve hundred ninety-four and two-tenths (1294.2) feet on its eastern line to a rear width of seventy-nine and two-tenths (79.2) feet; bounded on the North by a strip of land reserved for a railroad right-of-way; on the East by lots of Jones and Nicholson, Hammock and Lundy; on the South by Sand Bar Ferry Road; and on the West by Pistol Range Road, designated upon the map first referred to as 'Tract B' and identified by the letters 'G', 'H', 'E', and 'F', which map by reference is made a part hereof.

The property next above described was conveyed to the State of Georgia by a deed dated September 3, 1958, from the City Council of Augusta, which said deed is on file in the office of the Secretary of State of Georgia, and by reference made a part hereof to better identify said property.

ALSO, all that certain tract, lot and parcel of land, situate, lying and being in the City of Brunswick, in Glynn County, Georgia, identified and described according to the map and plat entitled 'Port and Industrial Sites, Glynn County, Brunswick, Georgia', dated May 30, 1958, and thereon identified and described as 'Proposed State Docks', and more particularly described as follows, to wit:

Beginning at a point on the westerly line of Newcastle Street where said line of Newcastle Street would be intersected by the southerly line of Fifth Avenue if said line of Fifth Avenue were projected westerly; thence running westerly along the southerly line of Fifth Avenue if the same were projected westerly for a distance of one thousand two hundred twenty-seven and eighty-five one-hundredths (1,227.85) feet to the United States Government harbor line in East River; thence running northerly along the said U. S. Government harbor line for a distance of eleven hundred and four one-hundredths (1,100.04) feet; thence running easterly along a line parallel to and 1,100.04 feet northerly from the southerly line of

Fifth Avenue for a distance of five hundred and twenty-five (525) feet, more or less, to the westerly line of Bay Street (if said Bay Street were projected southerly and said Bay Street being ninety-two and five-tenths (92.5) feet in width at said point); thence running southerly for a distance of twenty and four one-hundredths (20.04) feet along said westerly line of Bay Street to the point where said line of Bay Street is intersected by the southerly line of Third Avenue if said Third Avenue were projected westerly; thence running easterly along the southerly line of Third Avenue, if said Third Avenue were projected westerly, for a distance of four hundred ninety-seven and five tenths (497.5) feet to the westerly line of Grant Street, if said Grant Street were projected southerly; thence running southerly along said southerly projection of the westerly line of Grant Street for a distance of four hundred eighty (480) feet; thence at right angles to said last described line running westerly for a distance of two hundred and five (205) feet; thence at right angles to said last described line running southerly for a distance of one hundred five (105) feet; thence at right angles to said last described line running westerly for a distance of two hundred (200) feet; thence at right angles to said last described line running southerly for a distance of one hundred twenty-five (125) feet; thence at right angles to said last described line running easterly for a distance of five hundred forty (540) feet to the westerly line of Newcastle Street; thence running southerly and southeasterly along said westerly line of Newcastle Street for a distance of four hundred twenty and two-tenths (420.2) feet to the point or place of beginning.

There is excepted from this conveyance, the easement or rights-of-way of the Atlantic Coast Line and Southern Railroads as the same is shown to run through the above described and hereby conveyed tract of land on the aforesaid plat.

The property described next above was conveyed to the State of Georgia by a deed dated July 7, 1958, from the City of Brunswick, which said deed is on file in the office of the Secretary of State of Georgia, and by reference made a part hereof to better identify said property.

ALSO, that certain tract of land containing 56 acres, more or less, located in Lots of Land No. 372 and 373 in the 15th District of Decatur County,

Georgia, being a portion of Decatur County Farm Land located on the North of Flint River and South of the Bainbridge-Spring Creek paved highway (Georgia State Highway No. 253), East of the site now known as American Bitumuls & Asphalt Company and West of other land of Decatur County, Georgia and which tract is now known as the Georgia State Ports Authority, and is more particularly described as follows:

'Commencing at the Southwest corner of Land Lot No. 373, 15th District, Decatur County, Georgia (marked by a U. S. Government monument); thence N 01 degree 41' E, 457.0 feet to a U. S. Government monument; thence N 63 degree 06' E, 661.4 feet to a U. S. Government concrete monument; thence N 52 degree 03' E 648.9 feet to a U. S. Government concrete monument and the point of beginning; thence N 01 degree 41' E, 1,637.9 feet to a point on the South right-of-way of Georgia State Highway No. 253; thence N 45 degree 53' E along the South right-of-way of Georgia State Highway No. 253, 992.2 feet to a point of curvature; thence along the South right-of-way of Georgia State Highway No. 253 along a curve to a right in a general northeasterly direction with a radius of 5,690 feet for a distance of 911.9 feet to a point of tangency (chord N 50 degree 28' E. 911.0 feet); thence continue along the South right-of-way of Georgia State Highway No. 253, N 55 degree 04' E, 173.6 feet; thence S 08 degree 14' W. 98.0 feet; thence S 40 degree 54' W. 597.3 feet; thence S 26 degree 43' W, 949.5 feet; thence S 03 degree 56' W, 185.0 feet; thence S 40 degree 51' E, 1.054.9 feet to a point on the north shore line of Flint River; thence downstream along the North shore line of Flint River in a southwesterly direction to a point which is S 48 degree 49' W, 1,953.2 feet; thence N 01 degree 41' E. 658.3 feet to the point of beginning.'

The property described next above was conveyed to the State of Georgia by a deed dated October 2, 1956, from Decatur County, Georgia through the Chairman of the Board of Commissioners of Roads and Revenues, which deed is on file in the office of the Secretary of State of Georgia and by reference made a part hereof in aid of the description of said property.

ALSO, all that certain tract, lot and parcel of land situate, lying and being in Land Lots 372 and 373 of the 15th District of Decatur County, Georgia, containing 35.25 acres, and more particularly described as follows:

Commencing at the Southeast corner of Land Lot No. 372, 15th District, Decatur County, Georgia (Marked by a U. S. Government monument); thence N 0 degree 55' E, 650.0 feet; thence N 88 degree 50' W. 60.0 feet to a concrete monument and the point of beginning; thence S 51 degree 42' W along North boundary of Lands of General Gas Corp., 858.0 feet; thence S 31 degree 28' W along North boundary of lands of General Gas Corp. 823.4 feet; thence S 50 degree 19' E along West Boundary of lands of General Gas Corp., 500.0 feet; thence S 16 degree 35' E, 232.0 feet to a point on the Northern shore of Jim Woodruff Reservoir; thence along the Northern shore of Jim Woodruff Reservoir in a Southwesterly direction to a point which is S 66 degree 21' W, 240.0 feet; thence along the East boundary of lands formerly deeded to Georgia Ports Authority as follows: N 40 degrees 51' W, 1054.9 feet; N 03 degrees 56' E, 185.0 feet; N 26 degrees 43' E, 949.5 feet; N 40 degrees 54' E, 597.3 feet; N 08 degrees 14' E, 98.0 feet to a point on South right-of-way of Georgia State Highway No. 253; thence North 55 degrees 04' E along South right-of-way of Georgia State Highway No. 253, 630.9 feet; thence S 0 degree 55' W, 998.1 feet; thence along a curve to the left in a Northeasterly direction with a radius of 427.50 feet to a point which is N 60 degrees 49' E, 28.0 feet to a point of tangency; thence N 58 degrees 57' E 225.5 feet to the point of beginning. LESS AND EXCEPT 2.88 acres, more or less, contained in right-of-way for railroad spur track to State Docks as previously deeded S. A. L. Railway.

Specifically reserved from the above described tract of land is a strip of land for a 100 foot wide perpetual Railroad right-of-way easement from the proposed S. A.L. Railway spur track, running in an Easterly and Westerly direction through said described tract, to other adjoining lands of Decatur County which are located on the North side of Georgia State Highway No. 253. Said strip having been reserved for the use of Decatur County, Georgia in its conveyance to the State of Georgia dated February 4, 1958, which said deed is on file in the Office of the Secretary of State of Georgia, and by reference made a part hereof for a more complete description of said property. The above 35.25 acre tract of land being more fully shown by plat of same made by R. H. Alborn, C. E., on December 28, 1957, and recorded in Plat Book 4, Page 6, in the Clerk's office of Superior Court of Decatur County, Georgia.

This Deed of Correction is executed and delivered by the Governor of Georgia, acting for and on behalf of the State of Georgia under and as duly authorized by an Act of the General Assembly of Georgia approved March 9, 1945, known as the State Ports Authority Act, appearing on Pages 464-480, inclusive, of the Acts of the General Assembly of 1945, as amended by an Act approved March 10, 1959 (Georgia Laws 1959, Pages 145-151).

TO HAVE AND TO HOLD the said tract or parcel of land with all and singular the rights, members and appurtenances thereof, to the same being, belonging, or in any wise appertaining, to the only proper use, benefit and behoof of the said party of the second part, its successors and assigns, forever, IN FEE SIMPLE.

IN WITNESS WHEREOF, The State of Georgia has caused these presents to be signed by the Governor, with the official Seal of The State affixed, and attested by the Secretary of State, this the day and year first above written.

STATE OF GEORGIA

By: Carl E. Sanders (L.S.)
Carl E. Sanders, Governor

Attest: Ben W. Fortson, Jr. (L.S.)
Ben W. Fortson, Jr.
Secretary of State

SIGNED, SEALED AND DELIVERED IN THE PRESENCE OF: (As to the signatures of Carl E. Sanders, Governor, and Ben W. Fortson, Jr., Secretary of State)

Henry G. Lee

Ann L. Adamson
Notary Public

Notary Public, Georgia State at Large
My Commission Expires Nov. 9, 1964

Georgia, Decatur County, Filed Oct 15, 1964 at 11:20 A.M. Recorded Oct 16, 1964
Alma M. Griffin, Dep. Clerk, Superior Court

THIS INDENTURE, made this 23rd day of July, 1986, between

001936 CHEVRON U.S.A. INC., a Pennsylvania corporation (successor to American Bitumuls & Asphalt Company, a Delaware corporation, by mergers and name changes), hereinafter called "Grantor", and Georgia Ports Authority , whose mailing address is 132 State Judicial Building, Atlanta, Georgia 30334, hereinafter called "Grantee".

W I T N E S S E T H: That Grantor, for and in consideration of the sum of Ten Dollars ($10.00) and other good and valuable consideration, in hand paid at and before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, has granted, bargained, sold and conveyed and by these presents does hereby grant, bargain, sell and convey unto Grantee, its successors and assigns, a tract or parcel of land, with improvements, situate, lying and being in Decatur County, State of Georgia, and being more particularly described in Schedule A attached hereto and by reference made a part hereof.

TO HAVE AND TO HOLD the said bargained and conveyed premises together with all and singular the rights, members and appurtenances thereto in anywise appertaining or belonging to the only proper use, benefit and behoof of Grantee, its successors and assigns, in fee simple forever.

And Grantor will, and its successors shall, the aforegranted and conveyed premises unto Grantee, its successors and assigns, forever warrant and defend the right and title to said premises by virtue of these preents against the claim or claims of all persons whomsoever, except as to all easements and restrictions of record and zoning and building regulations applicable to said property and any state of facts that might be shown by an accurate survey and any roads or ways over and across said premises.

All taxes for the current year have been prorated as of date of delivery of this deed.

IN WITNESS WHEREOF, the said CHEVRON U.S.A. INC., a Pennsylvania corporation, Grantor herein, has caused these presents to be executed, and its corporate seal to be affixed hereto, by its Assistant Secretary, for and on its behalf, the day and year first above written.

CHEVRON U.S.A. INC.

RECORDED
BOOK I-14 PAGE 322-381

By: D T Sherman
D. T. SHERMAN
Assistant Secretary

Signed, sealed and delivered
in the presence of:

Marianne M. Harlan

Phyllis Glenn
Notary Public
Notary Public, Georgia, State at Large
My Commission Expires Nov. 17, 1986

Date of Notarial Execution: July 23, 1956

DECATUR COUNTY, GEORGIA
REAL ESTATE TRANSFER TAX
PAID $ 110.00
DATE July 31, 1986
Dp. Clerk of Superior Court

DECATUR COUNTY, GEORGIA
FILED IN OFFICE
1986 JUL 31 PM 12:11
CLERK OF SUPERIOR COURT

This instrument prepared by:
D. T. SHERMAN
Attorney at Law
P. O. Box 1706
Atlanta, Georgia 30301

000377

378

SCHEDULE A

CHEVRON U.S.A. INC.

TO

GEORGIA PORTS AUTHORITY

All that certain tract or parcel of land lying, situate and being in Land Lot No. 373 in the 15th Land District of Decatur County, Georgia, more particularly described as follows:

COMMENCE at the Southwest corner of Land Lot No. 373 and run thence North 01 deg. 52' 51" East along the West land lot line of Land Lot No. 373 a distance of 457.84 feet to a concrete monument; run thence North 63 deg. 07' East a distance of 661.3 feet to a concrete monument; run thence North 01 deg. 41' East a distance of 468.29 feet to a concrete marker; run thence South 88 deg. 32' 10" East a distance of 112.23 feet to an iron pin and the point of beginning; run thence North 17 deg. 01' 02" West a distance of 164.91 feet to an iron pin; run thence North 01 deg. 45' 13" East a distance of 352.92 feet to an iron pin; run thence North 04 deg. 30' 11" East a distance of 100.51 feet to an iron pin; run thence North 12 deg. 24' 07" East a distance of 291.53 feet to an iron pin; run thence North 07 deg. 57' 50" East a distance of 336.50 feet to a concrete marker located on the Southeast right-of-way line of State Route No. 253; run thence North 45 deg. 53' East a distance of 489.44 feet to a concrete marker located on the Southeast right-of-way line of State Route No. 253; run thence South 01 deg. 41' West a distance of 1,638.07 feet to a concrete marker; run thence South 01 deg. 41' West a distance of 355.81 feet to a concrete marker; run thence South 60 deg. 18' 16" West a distance of 106.84 feet to an iron pin; run thence North 01 deg. 34' 54" East a distance of 468.46 feet, more or less, to an iron pin; run thence North 88 deg. 32' 10" West a distance of 292.71 feet to an iron pin and the point of beginning. All in accordance with a plat of survey for Chevron U.S.A. Inc., prepared by Wallace Long Hambrick, GRLS No. 1375, dated March 24, 1986, and recorded in Plat Cabinet 2, Slide 70, Land Records of Decatur County, Georgia.

Being a portion of the same property conveyed from Decatur County, Georgia by and through W. W. Long, Chairman of the Board of Commissioners of Roads and Revenues, to American Bitumuls & Asphalt Company, a corporation of Delaware, by deed dated October 2, 1956 and recorded in the Office of the Clerk of the Superior Court of Decatur County, Georgia, on October 5, 1956 in Book T-6, Page 116.

LESS AND EXCEPT that portion of the above-described property as was conveyed to the United States of America by warranty deed dated March 29, 1963, and recorded in Deed Book X-7, Pages 229-231, Land Records of Decatur County, Georgia.

TOGETHER with the rights reserved unto American Bitumuls & Asphalt Company in the above described deed dated March 29, 1963.

SUBJECT TO:

(1) Riparian rights incident to the premises.

(2) Easement in favor of Georgia Power Company running over and across the western portion of caption property from Georgia State Route 253 into property adjoining caption property on the southwest as reported on Surveyor's Certificate Report by Wallace Hambrick, Surveyor, dated August 25, 1982 and revised March 24, 1986.

(3) Easement line in favor of Corps of Engineers of United States of America running across the southern portion of caption property as shown on Plat of Survey by Wallace Hambrick, Surveyor, dated March 24, 1986.

000378

BAINBRIDGE TERMINAL
LEGAL DESCRIPTION

All that tract or parcel of real property situate, lying and being in Land Lot 373 in the 15th Land District, Decatur County, Georgia and being more particularly described as follows:

Commencing at a point, said point being the Southwest Corner of Land Lot 373 and run thence North 20 degrees 48 minutes 06.0 seconds East, a distance of 1985.80 feet to a point, said point being the POINT OF BEGINNING.

Continuing thence North 12 degrees 24 minutes 07.0 seconds East a distance of 169.42 feet to a point; thence North 07 degrees 57 minutes 50.0 seconds East a distance of 336.50 feet to a point, said point being on the easterly right-of-way line of Georgia State Route 253 (also known as Spring Creek Road); thence along the easterly right-of-way line of Georgia State Route 253 North 45 degrees 53 minutes 00.0 seconds East a distance of 489.44 feet to a point; thence along the easterly right-of-way line of State Route 253 North 45 degrees 53 minutes 00.0 seconds East a distance of 510.16 feet to a point; thence leaving the right of way line of Georgia State Route 253 South 44 degrees 06 minutes 12.0 seconds East a distance of 211.88 feet to a point; thence North 46 degrees 05 minutes 05.0 seconds East a distance of 181.09 feet to a point; thence South 43 degrees 54 minutes 55.0 seconds East a distance of 50.00 feet to a point; thence South 46 degrees 00 minutes 21.0 seconds West a distance of 28.90 feet to a point; thence along a curve to the left, said curve having a radius of 293.31 feet, a central angle of 86 degrees 56 minutes 43.7 seconds and an arc distance of 445.09 feet to a point (chord bearing is South 02 degrees 32 minutes 02.0 seconds West and chord distance is 403.60 feet); thence South 40 degrees 27 minutes 10.4 seconds East a distance of 169.37 feet to a point; thence South 40 degrees 55 minutes 28.0 seconds East a distance of 88.45 feet to a point; thence North 61 degrees 13 minutes 43.0 seconds East a distance of 111.25 feet to a point; thence South 49 degrees 41 minutes 10.7 seconds East a distance of 282.81 feet to a point; thence South 50 degrees 14 minutes 54.0 seconds East a distance of 500.00 feet to a point; thence North 31 degrees 28 minutes 00.0 seconds East a distance of 100.00 feet to a point; thence South 16 degrees 35 minutes 00.0 seconds East a distance of 232.00 feet to a point, said point being on the north bank of the Flint River; thence following the north bank of the Flint River in a southwesterly direction to a point, said point being South 66 degrees 21 minutes 00 seconds West a distance of 240.00 feet from the previous point; thence along the north bank of the Flint River in a southwesterly direction to a point, said point being South 48 degrees 49 minutes 00.0 seconds West a distance of 1953.20 feet from the previous point; thence leaving the north bank of the Flint River North 01 degrees 23 minutes 58.6 seconds East a distance of 301.95 feet to a point; thence South 60 degrees 18 minutes 16.0 seconds West a distance of 106.84 feet to a point; thence North 01 degrees 34 minutes 54.0 seconds East a distance of 468.46 feet to a point; thence North 88 degrees 22 minutes10.0 seconds West a distance of 292.91 feet to a

point; thence North 17 degrees 01 minutes 02 seconds West a distance of 164.91 feet to a point; thence North 01 degrees 45 minutes 13.0 seconds East a distance of 352.92 feet to a point; thence North 04 degrees 30 minutes 11.0 seconds East a distance of 100.51 feet to a point; thence North 12 degrees 24 minutes 07.0 seconds East a distance of 122.04 feet to a point, said point being the POINT OF BEGINNING.

Said herein above described tract or parcel of real property being bounded on the north and west by State Route 253; on the east by lands, now or formally, of AgriumU.S. Inc.; on the south by the Flint River; and on the west by lands, now or formally, of Ergon Terminaling, Inc. Said tract or parcel of real property consisting of and being approximately 64.6 Acres, more or less, and being known as the Georgia Ports Authority's Bainbridge Terminal.

The aforementioned legal description is a composite made from various deeds and plats in the possession of the Georgia Ports Authority and on record with the Office of Clerk of Superior Court, Decatur County, State of Georgia, and is subject to all matters which an actual field survey may disclose. The parcel is also subject to various easements and rights of ways not indicated in this legal description.

Revised 6/28/12
Source: Georgia Ports Authority

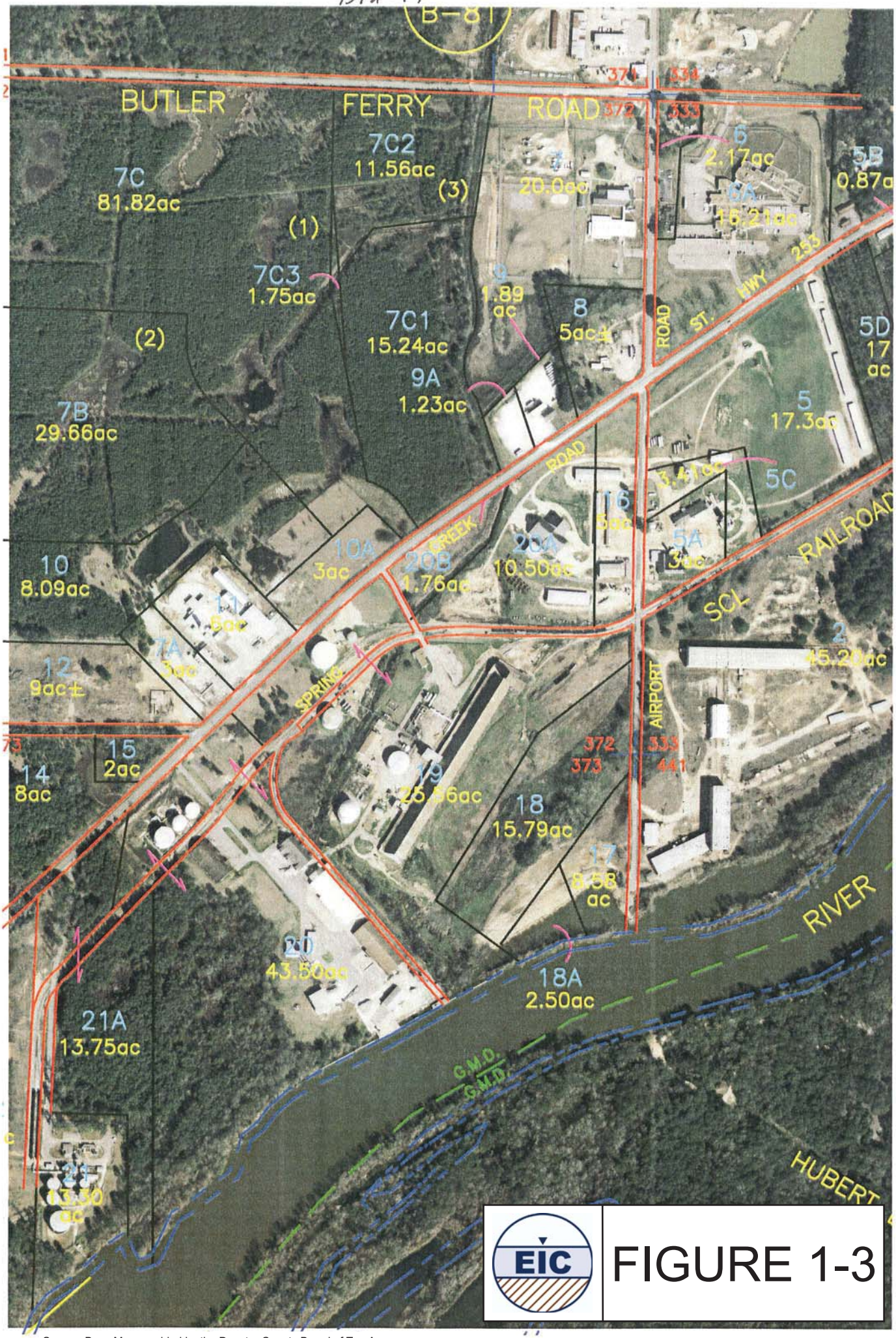
BHC REMEDIATION, BAINBRIDGE TERMINAL, BAINBRIDGE, GEORGIA

VIRP APPLICATION

ATTACHMENT C

County Tax Plat Map and Parcel Owner Index

B42-19



EIC

FIGURE 1-3

Source: Base Map provided by the Decatur County Board of Tax Assessors

BHC REMEDIATION, BAINBRIDGE TERMINAL, BAINBRIDGE, GEORGIA

VIRP APPLICATION

ATTACHMENT D

Current Site Property and Surrounding Properties Owner Database

ATTACHMENT D: Current Site Property and Surrounding Properties Owner Database

Parcel ID	Property Owner	Property Owner Address	Parcel Description*	Lot Size	
7A	VALBAY INC	PO BOX 1165, VALDOSTA, GA 31603	A9 847 LL372 15TH LD	3.00	Acres
10A	GEORGIA GULF SULPHUR CO	PO BOX 1165, VALDOSTA, GA 31603	T15 509 LL 372 LD 15	3.00	Acres
11	GEORGIA GULF SULPHUR CO	PO BOX 1165, VALDOSTA, GA 31603	T15 509 LL 372 LD 15 RFC-2	6.00	Acres
12	JACKSON GLAPHREY & ETAL	PO BOX 697, BRINSON, GA 39825	315 643 LL372 LD15 RFC-4	9.00	Acres
14	BARBER THURMAN	254 BARBER ROAD, BRINSON, GA 398525	E14 603 LL373 LD15	8.00	Acres
15	SWEETRIVER LAND LLC	PO BOX 862 BAINBRIDGE, GA 39818	228 163 LL 373 LD 15	2.00	Acres
18	AGRIUM U S INC	4582 S ULSTER ST SUITE 700, DENVER, CO 80237	315 515 LL372-373 15TH LD RFC-60	15.79	Acres
18A	THE CITY OF BAINBRIDGE	PO BOX 158, BAINBRIDGE, GA 39818	109 45 LL373 LD15	2.50	Acres
19	AGRIUM U S INC	4582 S ULSTER ST SUITE 700, DENVER, CO 80237	315 515 LL372-373 LD 15 RFC-60	25.56	Acres
20	GEORGIA PORTS AUTHORITY	132 STATE JUDICIAL BUILDING, ATLANTA, GA 30334	GA PORTS AUTH LL372-3 D15 RFC-1	43.50	Acres
21	ERGON TERMINALING INC	PO BOX 1639, JACKSON, MS 39215	E22 387 LL 373 LD 15 RFC-1	13.30	Acres
21A	GEORGIA PORTS AUTHORITY	132 STATE JUDICIAL BUILDING, ATLANTA, GA 30334	I14 377 LL373 LD15	13.75	Acres

Sources: Decatur County Board of Tax Assessors
Notes: *Property Description may include Deed Book Page, Land Lot, Land District, and Address of BLDG/House

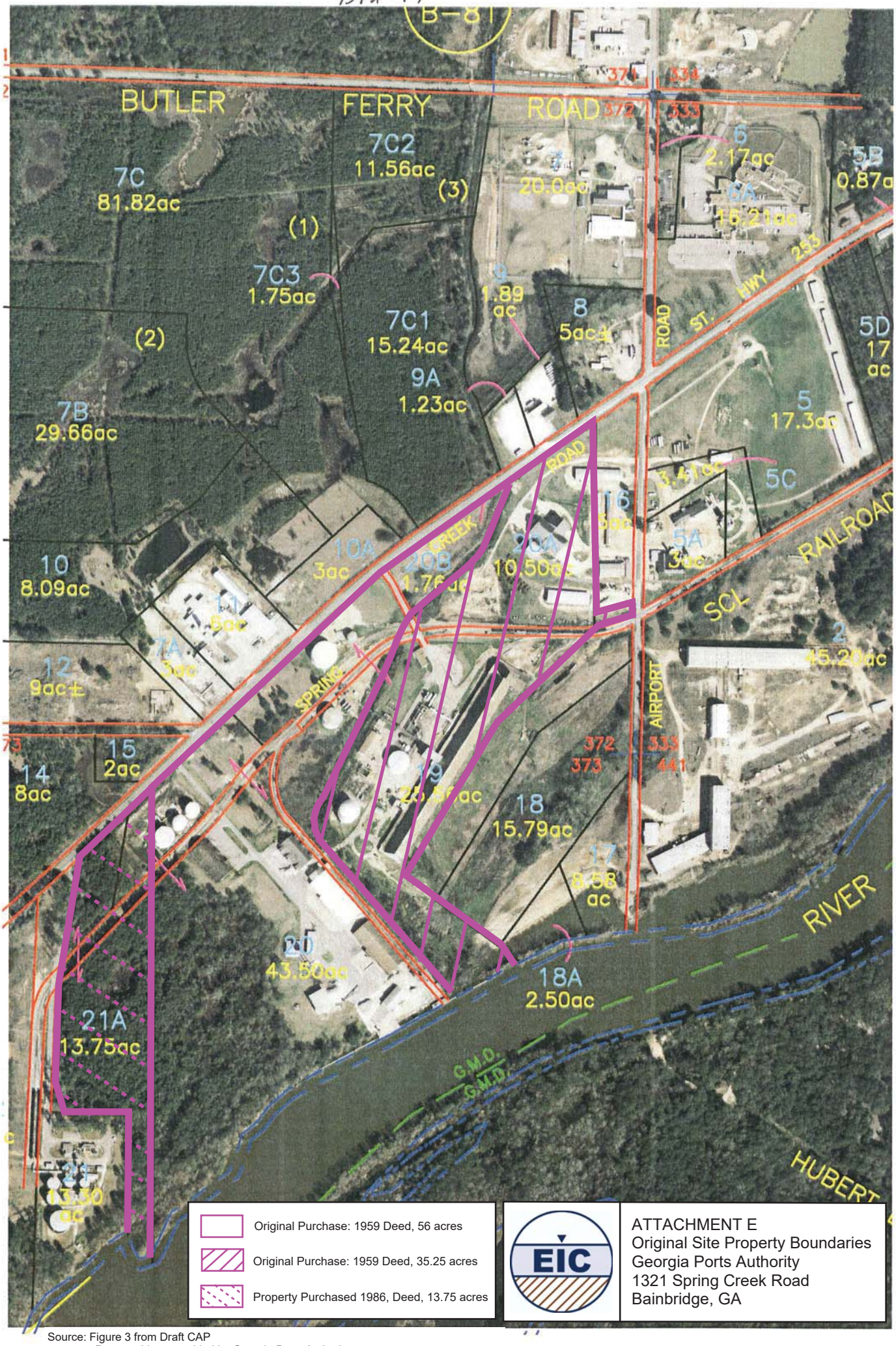
BHC REMEDIATION, BAINBRIDGE TERMINAL, BAINBRIDGE, GEORGIA

VIRP APPLICATION

ATTACHMENT E

Original Site Property Boundaries

B42-19



Original Purchase: 1959 Deed, 56 acres

Original Purchase: 1959 Deed, 35.25 acres

Property Purchased 1986, Deed, 13.75 acres

EIC

ATTACHMENT E
Original Site Property Boundaries
Georgia Ports Authority
1321 Spring Creek Road
Bainbridge, GA

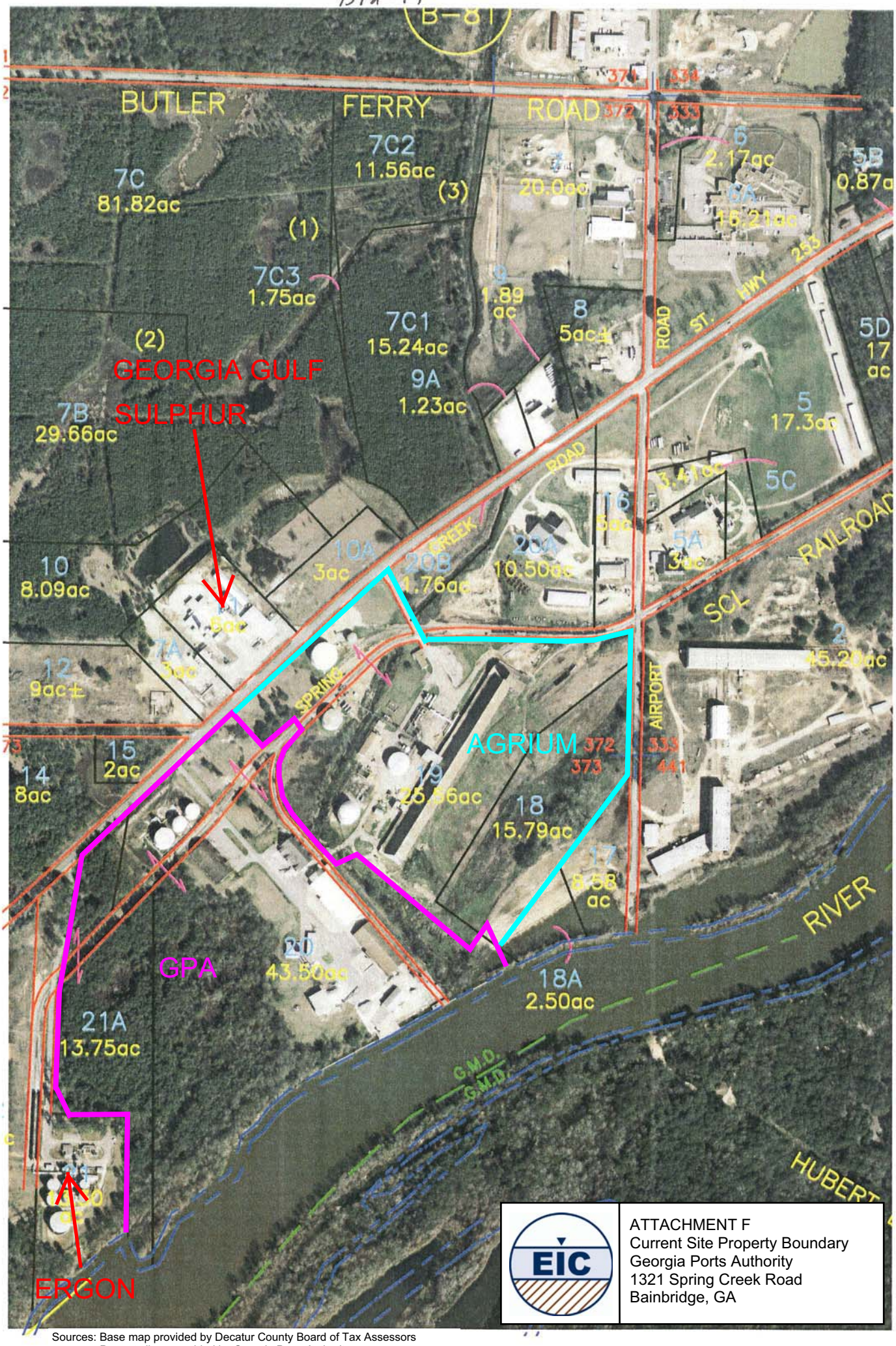
Source: Figure 3 from Draft CAP
Property Lines provided by Georgia Ports Authority

BHC REMEDIATION, BAINBRIDGE TERMINAL, BAINBRIDGE, GEORGIA

VIRP APPLICATION

ATTACHMENT F

Current Site Property Boundary



EIC

ATTACHMENT F
Current Site Property Boundary
Georgia Ports Authority
1321 Spring Creek Road
Bainbridge, GA

Sources: Base map provided by Decatur County Board of Tax Assessors
Property lines provided by Georgia Ports Authority

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

COMPLIANCE STATUS REPORT

EXHIBIT B
FIRST VIRP SEMI-ANNUAL PROGRESS REPORT

(INCLUDED ON CD)

ENVIRONMENTAL INTERNATIONAL CORPORATION
161 Kimball Bridge Road, Suite 100, Alpharetta, GA 30009
Phone: 770-772-7100, Fax: 770-772-0555
Email: rajmahadevaiah@eicusa.com
Website:www.eicusa.com

Our Contribution to the Environment®

May 9, 2013

DELIVERED VIA FEDEX OVERNIGHT

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: **First 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 First 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 First 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 Schanze 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 Schanze, GPA

CERTIFICATION AND SUPPORTING DOCUMENTS
First VIRP Semi-annual Progress Report
Georgia Ports Authority-Bainbridge Terminal
HSI Site No. 10071
May 9, 2013

"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

5/9/13
Date

GEORGIA REGISTERED No. 23198 PROFESSIONAL ENGINEER BASAVARAJ MAHADEVAIAH

Signature and Stamp

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

FIRST VIRP SEMI-ANNUAL PROGRESS REPORT

May 9, 2013

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

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1 INTRODUCTION 1

2 AFFIDAVIT 2

3 QUARTERLY GROUNDWATER MONITORING 3

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5 MONTHLY SUMMARY OF HOURS INVOICED 5

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List of Figures

1. Site Map

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A. Affidavit of Corrective Action
B. Monthly Summary of Hours

SECTION

1

1 INTRODUCTION

On behalf of Georgia Ports Authority (GPA), Environmental International Corporation (EIC) is submitting the First Semi-annual Progress Report for review by the Georgia Environmental Protection Division (EPD). This report was prepared as outlined in the July 27, 2012 "VIRP Application" prepared by EIC and approved by the EPD on November 2, 2012 under the Voluntary Remediation Program (VRP). This report provides a brief summary of site activities that took place during the period from November 2012 through April 2013.

Immediately after receiving EPD's letter of approval, GPA prepared the necessary documents for authorization by its Board of Directors. After the board approved the Voluntary Investigation and Remediation Plan (VIRP) pathway and the required budget, GPA retained EIC to proceed with the implementation of the VIRP. Upon receipt of GPA's notice to proceed dated February 21, 2013, EIC initiated project activities as outlined in the VIRP.

EIC first prepared an extended base map to include MW-19 to facilitate better horizontal delineation of the contaminants of concern (COC). Figure 1 illustrates the extended site map. EIC then prepared a site health and safety plan for performing field activities. The following sections provide a summary of the subsequent tasks completed at the site.

SECTION

2

2 AFFIDAVIT

On March 28, 2012, GPA filed an affidavit of corrective action with the clerk of the Superior Court of Decatur County, Georgia in accordance with the terms specified in EPD's letter dated November 2, 2012. EIC forwarded a copy of the recorded affidavit to EPD on April 10, 2013. EIC's transmittal letter is included as Appendix A.

SECTION

3

3 Quarterly Groundwater Monitoring

From March 25 to March 28, 2013, EIC conducted groundwater sampling and water level gauging of all available wells (a total of 22 wells) for Monitored Natural Attenuation (MNA) monitoring purposes. Groundwater samples were collected and analyzed to monitor pesticides constituents of concern (COCs) and selected inorganic constituents that are indicative of natural attenuation. Pesticide contamination analysis included the primary constituent of concern (COC) benzenehexachloride (BHC), consisting of isomers alpha-BHC, beta-BHC, delta-BHC, gamma-BHC, and other pesticides. The analytical laboratory transmitted a report on April 12, 2013. EIC is currently validating the analytical data and evaluating the results.

The analytical data along with potentiometric surface data and related field observations will be utilized in determining the prevailing site conditions relative to Risk Reduction Standards (RRS)/Delineation Criteria and to enable defining baseline conditions. EIC is currently evaluating the analytical results and is in the process of preparing a draft report to document key findings. EIC will submit the final report in the next Semi-annual Report.

SECTION

4

4 Well Inventory

To evaluate the current status of monitoring wells, EIC conducted an inventory of well conditions at the Bainbridge Terminal during the March 2013 groundwater sampling event. The following subsections document EIC's findings.

4.1 Un-located Wells

EIC attempted to identify the location of three un-located wells, MW-2, MW-3, and MW-9 utilizing a magnetometer and visual observation. These wells are illustrated in Figure 1. EIC was successful in identifying the location of monitoring well MW-2 but was unable to locate the monitoring wells, MW-3 and MW-9. During the next trip to the site, EIC will utilize a licensed surveyor to identify locations of these wells and further attempt to locate these wells.

4.2 Well Conditions

During the first groundwater monitoring event, EIC also identified several issues with the integrity of certain monitoring wells at the site. These are summarized in Table 1. New bolts need to be installed on the flush-to-grade vaults of eight monitoring wells and new padlocks need to be installed on four monitoring wells with stick-up casing. New locking caps need to be installed on six monitoring wells, and the PVC well casing has been deformed and requires repair for two monitoring wells. New concrete pads need to be installed on two monitoring wells, while a third well requires re-alignment of the existing concrete pad. Monitoring well, MW-15 in particular may possibly have to be redeveloped, since the concrete pad and vault have been completely destroyed and silt from the ground surface may have filled a portion of the well screen. EIC will address well repairs and rehabilitation under subsequent tasks.

SECTION 5

5 MONTHLY SUMMARY OF HOURS INVOICED

A monthly summary of hours invoiced for the aforementioned tasks during the period from February 2013 through April 2013 are summarized in Appendix B.

SECTION

6

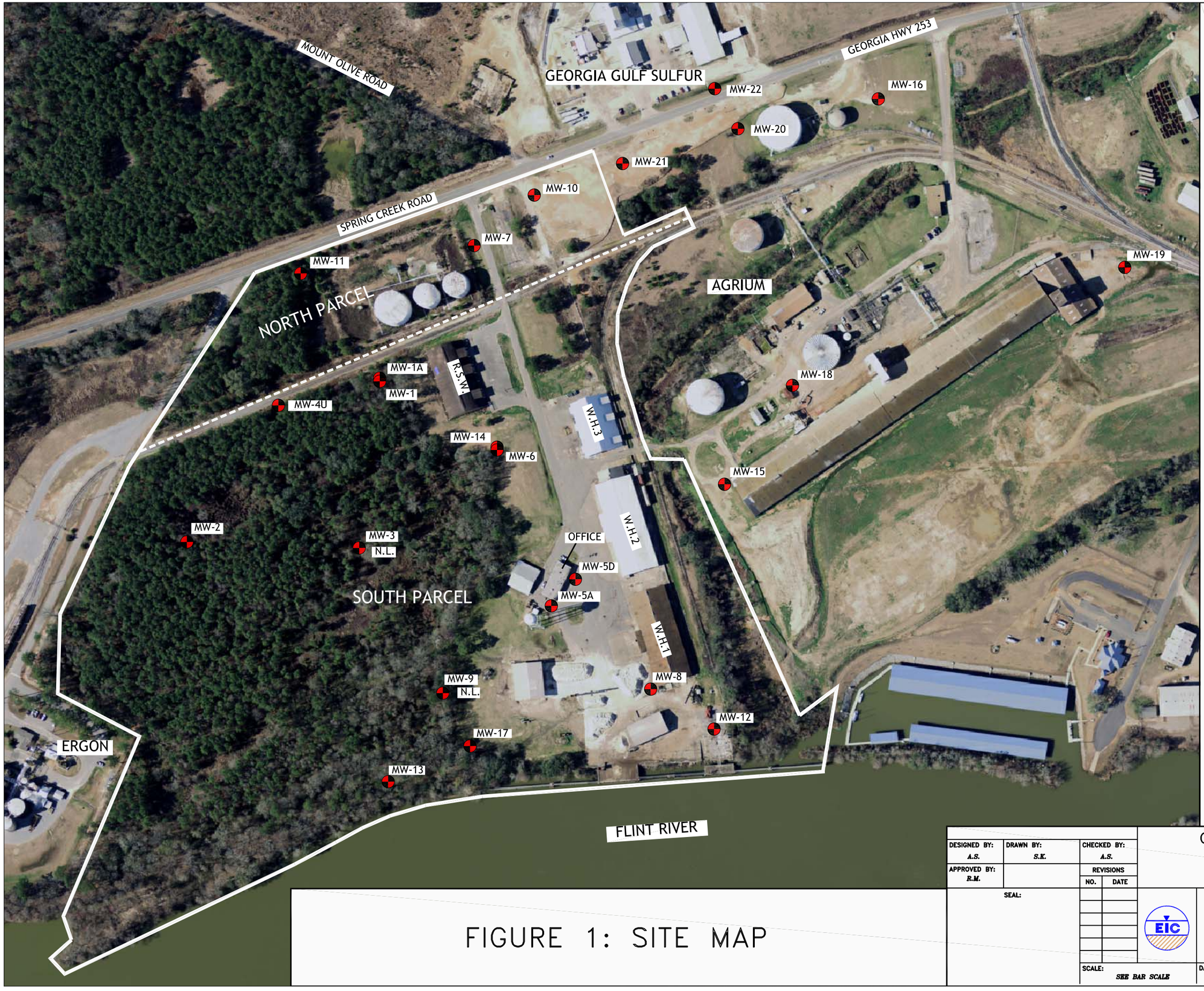
6 SUMMARY

Since the initiation of VIRP tasks in February 2013, EIC has completed initial tasks to meet the goals of the VIRP, as well as to follow EPD's direction. These tasks included filing an affidavit of corrective action, preparation of a health and safety plan, conducting a well inventory, conducting groundwater monitoring, and related tasks. A final report documenting the first quarterly groundwater monitoring report will be included in the next Semi-annual report.

Currently, EIC is evaluating the horizontal delineation of COCs, preparing to conduct a geographical survey of selected wells, and is evaluating newly available facility as-built drawings to update the site conceptual model. EIC's findings of these evaluations will be included in the next Semi-annual report. The next Semi-annual report will also include a response to EPD's VIRP comment letter dated November 2, 2012.

Table 1: Well Conditions Status
GPA Bainbridge Terminal, Bainbridge, Georgia

Well Identity	Well Condition	Recommended Action
MW-1	Stick-up well. No padlock for outer casing. Well locking cap in good condition, but is degraded and could not be tightened.	Install new locking cap and new padlock.
MW-1A	Stick-up well. No pad lock for outer casing.	Install new padlock.
MW-2	Stick-up well. Well casing and locking cap in good condition. No padlock for outer casing.	Install new padlock.
MW-3	Not Found.	Locate well utilizing licensed surveyor or install replacement well.
MW-4U	Stick-up well. Well casing and locking cap in good condition. EIC cut off the padlock from well as no key was available. No padlock for outer casing.	Install new padlock.
MW-5A	Flush-to-grade well. Good Condition.	None needed.
MW-5D	Flush-to-grade well. Concrete pad is damaged and heavily cracked. The entire well vault lid and top came off in one piece. Well locking cap damaged/destroyed and difficult to remove from the well casing. The well casing itself is in good condition.	Install new concrete pad and locking well cap.
MW-6	Flush-to-grade well. Missing one vault bolt. Well casing and locking cap appears to be in good condition.	Install new vault lid bolt.
MW-7	Flush-to-grade well. Good condition. Well locking cap is loose.	Replace locking well cap.
MW-8	Flush-to-grade well. Vault lid is missing all bolts and is rusted. Locking well cap and concrete pad is in good condition.	Install new vault lid bolts.
MW-9	Not Found.	Locate well utilizing licensed surveyor or install replacement well.
MW-10	Flush-to-grade well. Concrete pad has been apparently struck by a vehicle shifting it against well casing and breaking off part of the PVC well casing. However, well casing was apparently not moved.	Recenter and level concrete pad, cut off broken section of PVC casing, and install new bolt and locking well cap.
MW-11	Flush-to-grade well. Good Condition.	None needed.
MW-12	Flush-to-grade well. Good Condition.	None needed.
MW-13	Flush-to-grade well. Good Condition.	None needed.
MW-14	Flush-to-grade well. Missing two well vault bolts.	Install new bolts.
MW-15	Flush-to-grade well. Well concrete pad and vault have been destroyed. The 2-inch PVC casing extends approximately 1/2 inch above the ground surface and has been deformed. Locking well cap is missing. Grass and particles observed in well casing during groundwater sampling.	Install new concrete pad , cut, repair well casing, install new locking cap, and possibly redevelop well.
MW-16	Flush-to-grade well. Extremely difficult to replace well locking cap.	Replace locking well cap.
MW-17	Flush-to-grade well. No vault lid bolts. Well casing is bent.	Install new bolts and attempt to repair well casing.
MW-18	Flush-to-grade well. Missing all vault lid bolts.	Install new bolts.
MW-19	Flush-to-grade well. Missing all vault lid bolts.	Install new bolts.
MW-20	Flush-to-grade well. Concrete pad is slightly cracked, well locking cap and casing in good condition.	None needed.
MW-21	Flush-to-grade well. Missing one vault lid bolt.	Install new bolt.
MW-22	Flush-to-grade well. Good Condition	None needed.



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

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 1: SITE MAP

DESIGNED BY: A.S.	DRAWN BY: S.K.	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	4/26/2013	400007 – GPA BAINBRIDGE	

MAY 2013
SEMI-ANNUAL REPORT

APPENDIX A

ENVIRONMENTAL INTERNATIONAL CORPORATION
161 Kimball Bridge Road, Suite 100, Alpharetta, GA 30009
Phone: 770-772-7100, Fax: 770-772-0555
Email: rajmahadevaiah@eicusa.com
Website:www.eicusa.com

Our Contribution to the Environment®

April 10, 2013

Dr. Montague McPherson
Environmental Specialist
Georgia Environmental Protection Division
Suite 1462 East Tower
2 Martin Luther King Jr. Drive, SE
Atlanta, Georgia 30334

Subject: **Affidavit of Corrective Action due to the presence of hazardous waste, Voluntary Investigation and Remediation Plan, HSI Site No. 10071, Georgia Ports Authority Bainbridge Terminal, 1321 Spring Creek Road, Bainbridge, Georgia**

Dear Dr. McPherson:

On behalf of Georgia Ports Authority (GPA), Environmental International Corporation (EIC) is pleased to submit the attached copy of the recorded affidavit for your files. Please note that the affidavit was filed with the clerk of the Superior Court of Decatur County, Georgia in accordance with the terms of the Voluntary Investigation and Remediation Plan (VIRP) approved by the Georgia Environmental Protection Division (EPD) in its letter dated November 2, 2012.

If you have any questions regarding this submittal, please contact Ms. Natalie Schanze of GPA at 912-963-5595 or me at 770-772-7100, Extn. 223.

Sincerely,
ENVIRONMENTAL INTERNATIONAL CORPORATION

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

Cc: Natalie Schanze, GPA
Christopher Novack, GPA

FILED IN OFFICE
2013 Mar 28 PM 03:39
CECILIA WILLIS
CLERK OF SUPERIOR COURT
DECATUR COUNTY, GEORGIA
2013-207 Deed Doc: AFF

STATE OF GEORGIA)
)
DECATUR COUNTY)

Recorded 03/28/2013 03:39PM
Georgia Intangible Tax Paid: $0.00
CECILIA WILLIS
Clerk Superior Court, DECATUR County, Ga.
Bk **00352** Pg **0452-0453**

IN RE: Bainbridge Terminal, Decatur County, Georgia
Deed Reference: Deed Book D-8, Page 358
Record Owner: Georgia Ports Authority

This recorded affidavit, in the Office of the Clerk of the Superior Court of Decatur County, Georgia, pursuant to O.C.G.A. 44-2-20, refers to that certain tract of land (hereinafter the "Property") owned by the Georgia Ports Authority, a public corporation and instrumentality of the State of Georgia, which Authority acquired its interest by Deed dated March 18, 1959 and a Deed of Correction dated June 15, 1964, from the State of Georgia, said Deed of Correction being recorded in Deed Book D-8, Page 358, Decatur County, Georgia.

Georgia Ports Authority is performing corrective action at the Bainbridge Terminal which is a qualifying property in accordance with an approved voluntary investigation and remediation plan (VIRP). EPD has designated the subject property as Class V as defined in Rule 391-3-19-.06 requiring corrective action as provided for in §12-B-107(b) of the Georgia Voluntary Remediation Program Act. This property has been listed on the State's Hazardous Site Inventory and has been designated as needing corrective action due to the presence of hazardous waste, hazardous constituents or hazardous substances regulated under State law. Interested parties should contact the

property owner or the Georgia Environmental Protection Division for further information concerning this property. This notice is provided in compliance with the Georgia Hazardous Site Response Act.

DECATUR COUNTY
Bk 00352 Pg 0453

This 21st day of March, 2013.

GEORGIA PORTS AUTHORITY

By: _____
Executive Director

Signed, sealed and delivered
in the presence of:

_____
(Unofficial Witness)

COPORATE SEAL

_____
Notary Public, State of Georgia

My Commission expires _____
(Imprint Notarial Seal)

DEBRA H. WYNN
Notary Public, Chatham County, GA
My Commission Expires October 20, 2014

FILED IN OFFICE
2013 Mar 28 PM 03:39
CECILIA WILLIS
CLERK OF SUPERIOR COURT
DECATUR COUNTY, GEORGIA
2013-207

STATE OF GEORGIA)
)
DECATUR COUNTY)

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property owner or the Georgia Environmental Protection Division for further information concerning this property. This notice is provided in compliance with the Georgia Hazardous Site Response Act.

This 21st day of March, 2013.

GEORGIA PORTS AUTHORITY

By: _____
Executive Director

Signed, sealed and delivered
in the presence of:

_____
(Unofficial Witness)

COPORATE SEAL

_____
Notary Public, State of Georgia

My Commission expires _____
(Imprint Notarial Seal)

DEBRA H. WYNN
Notary Public, Chatham County, GA
My Commission Expires October 20, 2014

DECATUR
P.O. BOX 336
112 WEST WATER STREET
BAINBRIDGE, GEORGIA 39818

Receipt Number
149370
Date
03/28/2013
Reference Number

To: GEORGIA PORT AUTHORITY/KENNETH SLATER

Account Description	QTY	Each	Extended
AFF-AFFIDAVIT			$14.00

Cash Paid: $14.00 **Check Paid:** $0.00 **Check #:** **Total Paid** **$14.00**

MEMO:

MAY 2013
SEMI-ANNUAL REPORT

APPENDIX B

Environmental International Corporation
GPA VIRP
February through April 2013

TASKS	Feb 13	Mar 13	Apr 13	TOTAL
Planning & Preparation	16.25	43.75	15.25	75.25
Groundwater Sampling & Well Inventory	9.25	254.50	119.33	383.08
Health & Safety	0.00	61.75	0.50	62.25
Total, Hours	**25.50**	**360.00**	**135.08**	**520.58**

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

COMPLIANCE STATUS REPORT

EXHIBIT C
SECOND VIRP SEMI-ANNUAL PROGRESS REPORT

(INCLUDED ON CD)

Our Contribution to the Environment®

ENVIRONMENTAL INTERNATIONAL CORPORATION
161 Kimball Bridge Road, Suite 100, Alpharetta, GA 30009
Phone: 770-772-7100, Fax: 770-772-0555
Email: rajmahadevaiah@eicusa.com
Website:www.eicusa.com

October 30, 2013

DELIVERED VIA FEDEX OVERNIGHT

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: **Second 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 Second 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 Second 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

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

SECOND VIRP SEMI-ANNUAL PROGRESS REPORT

October 30, 2013

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

CERTIFICATION AND SUPPORTING DOCUMENTS
Second VIRP Semi-annual Progress Report
Georgia Ports Authority-Bainbridge Terminal
HSI Site No. 10071
October 30, 2013

"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

10/30/13
Date



Signature and Stamp

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B. AOC-1 Security Fencing Specifications
C. Report on Additional Soil Sampling at AOC-2
D. Report on First Quarter 2013 (Baseline) VIRP Quarterly MNA Groundwater Monitoring Event
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H. Monthly Summary of Hours Invoiced

EXECUTIVE SUMMARY

The Georgia Ports Authority (GPA) owns and operates a bulk cargo storage terminal in Bainbridge, Georgia known as the Bainbridge Terminal facility. The facility is located at 1321 Spring Creek Road in Bainbridge, Decatur County, Georgia. The facility was constructed in 1958 and is located on an approximately 65-acre parcel at the Apalachicola-Chattahoochee-Flint Waterway, or Tri-Rivers System in Decatur County, Georgia.

During a Phase I assessment, conducted in 1993, an engineering firm discovered pesticide contamination at the site. Based on additional investigations, the Georgia Environmental Protection Division (EPD) listed the site on the state Hazardous Site Inventory (HSI) in 1994 and assigned HSI number 10071. Subsequently, additional site investigations progressively revealed soil and groundwater contamination in other areas. The primary constituents of concern (COC) that have contributed to the soil and groundwater contamination at the site are composed of isomers of benzenehexachloride (BHC), also known as hexachlorocyclohexane, namely α-BHC, β-BHC, δ-BHC, and γ-BHC (Lindane). These COCs have been found above risk reduction standards (RRS) in both soil and groundwater.

Initially, GPA conducted successive soil excavation and disposal activities to address the soil contamination. Subsequently, GPA found that an alternative remedial approach under the Georgia Voluntary Remediation Program (VRP) was more practical and cost-effective to address the prevailing soil and groundwater contamination at the site. The VRP approach entailed engineering controls to address soil and groundwater contamination in a more cost effective and timely manner. A completed Voluntary Investigation and Remediation Plan (VIRP) was submitted on July 25, 2012 and approved by the EPD on November 2, 2012. For effective management of contaminated soils, the VIRP established three areas of concern (AOCs) where pesticide soil contamination or "hot spots" exist. AOC-1, is comprised of a relatively large area to the south of the RSW in the South Parcel. The second hot spot, designated as AOC-2, is comprised of the subsurface beneath a concrete pad upon which Warehouse No. 3 (WH3) rests. The third hot spot, designated as AOC-3, is located along certain drainage ditches/swales north and east of WH3.

This report documents the groundwater monitoring and pre-remedial tasks completed during the period from March 2013 through October 2013. EIC conducted a land survey of selected monitoring wells to correct a well top-of-casing elevation error from a previous survey and other site features, locate well MW-3, locate the sheet pile bulkhead by the Flint River (which may act as a hydraulic barrier), and fence alignment for AOC-1. EIC also completed various tasks to achieve the primary goal of managing contaminated soils. For AOC-1, bid specifications have been developed to install a security fence to fully enclose contaminated soils. In AOC-2, the horizontal extent of the COCs in soil was delineated. Based on EIC's evaluation of the three quarterly groundwater monitoring events, during this monitoring period, it is apparent that the horizontal extent of the COCs have generally decreased and receded up-gradient from the Flint River within the GPA property. GPA is currently preparing for further defining the hot spot in AOC-3.

SECTION

1

1 INTRODUCTION

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

Immediately after receiving EPD's letter of approval, GPA prepared the necessary documents for authorization by its Board of Directors. After the board approved the Voluntary Investigation and Remediation Plan (VIRP) pathway and the required budget, GPA retained EIC to proceed with the implementation of the VIRP. Upon receipt of GPA's notice to proceed dated February 21, 2013, EIC initiated project activities as outlined in the VIRP. The following sections provide a summary of the tasks completed at the site since March 2013 through October 2013. Explicit details of each task is included in the corresponding references cited in various sections of this report.

SECTION 2

2 LAND SURVEY

In June 2013, EIC conducted various geographical surveying tasks at the Bainbridge Terminal consistent with the VIRP objectives. EIC conducted the survey utilizing a professional land surveyor licensed in the State of Georgia. Explicit details of the survey are attached as Appendix A. The following sections provide a summary of these activities.

2.1 Locating Wells

EIC attempted to locate monitoring wells MW-3 and MW-9, as these wells would allow a better delineation of the horizontal extent of pesticide constituents of concern (COCs) established in the VIRP on the west side of the GPA property. Utilizing previously known coordinates, EIC utilized the surveyor to locate well MW-3. Monitoring well MW-9, however, was not located even after a thorough search.

2.2 Plotting Proposed AOC-1 Security Fence Line

EIC utilized the surveyor to survey the coordinates of the trace of the security fence surrounding Area of Concern (AOC)-1, proposed in the VIRP for the management of contaminated soils. The survey also identified approximate locations of gates, and the locations of corner posts. These features were plotted on a survey map. Additionally, the trace of the fence and originally proposed gates were physically marked with wooden stakes. It is important to note, however, that since this survey was conducted, the locations and type of gates proposed have been changed to meet GPA's site navigational needs. Originally, two vehicle and two personnel gates were proposed. Currently, GPA is considering two vehicle gates only, with one gate at a different location than previously proposed. The currently proposed as-built specifications of the fence are discussed in Section 3.1.

2.3 Plotting Sheet Pile Bulkhead

Bulkhead sheet piling is located on the south side of the terminal adjacent to the Flint River. As this feature intercepts groundwater flow towards the Flint River, EIC utilized the surveyor to identify the horizontal and vertical coordinates for this feature and related features. As such, this structure will be more accurately depicted on site maps and in an updated site conceptual model to illustrate the sheet pile wall affects the migration potential of COCs and groundwater in general.

2.4 Well Survey to Assess Well TOC Elevation anomaly

EIC utilized the surveyor to verify the top of casing elevations (TOC) for MW-16 and four nearby wells to determine if a 1-foot elevation discrepancy in the groundwater surface at MW-16 depicted in previously prepared potentiometric maps was the result of a former surveying error. From analysis of the survey data, EIC confirmed that there was indeed a survey error of one foot in the TOC elevation for MW-16. Accordingly, EIC corrected the MW-16 TOC elevation in data tables utilized to calculate groundwater elevations and the resulting potentiometric surfaces generated during the March, June, and September 2013 monitoring groundwater events eliminating previously detected anomalies in the vicinity of MW-16.

2.5 Plotting Proposed Soil Boring locations

As discussed in Section 3.2, EIC conducted 10 soil borings adjacent to AOC-2. Prior to conducting these borings, the proposed locations and elevations of these soil borings were surveyed. Based on the well coordinates, EIC was able to accurately illustrate the soil boring locations on the site map (Figure 1 in Appendix C) that displayed the analytical results in AOC-2.

SECTION

3

3 MANAGEMENT OF CONTAMINATED SOILS

Three AOCs consisting of pesticide COCs were defined in the VIRP (EIC, 2012). The following sections provide a description of activities conducted for management of contaminated soils at these locations in June 2013.

3.1 AOC-1 Security Fencing

The VIRP established, as a proposed action, the management of contaminated soils via engineering controls utilizing a security fence at AOC-1. The purpose of the fence was to limit site personnel or visitors from exposure to potentially contaminated surface soils within AOC-1. In order to determine the placement of such a fence, EIC reviewed historical soil sampling data from within AOC-1 that was collected from within various sample grids. Based on this review, and considering Comment 10 of the EPD comment letter dated November 2, 2012 (Section 5) stating that the fence should "encompass all RRS exceedances", the fence was proposed to surround the entirety of the historical soil sample grids with at least a 20-foot buffer in unpaved areas or, where the sample grids reached 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. The currently proposed specifications and location of the fencing to be implemented by GPA are included in Appendix B

3.2 AOC-2 Additional Soil Sampling

In response to Comment 11 of the EPD comment letter dated November 2, 2012 in Section 5, EIC conducted additional soil sampling in AOC-2 in June 2013 to determine the appropriate boundaries for the proposed engineering and institutional controls pertaining to the management of contaminated soils. From the analysis of the soil samples, EIC determined that the horizontal extent of the soil contamination is fully defined to the north of AOC-2. A report documenting details of the soil sampling event and evaluation is attached as Appendix C.

3.3 AOC-3 Preliminary Soil Sampling

In response to Comment 9 of the EPD comment letter dated November 2, 2012 (Section 5), EIC is currently preparing for soil sampling activities in AOC-3 at a historically determined "hot spot". The primary objective of the sampling effort is comply with EPD's directive to delineate the extent of the hot spot where a single soil sample reportedly exceeded RRS. Based on the results of that investigation, GPA will either excavate a limited amount of soil that exceeds the RRS or explore additional options.

SECTION

4

4 MNA OF GROUNDWATER CONSTITUENTS OF CONCERN

The VIRP specified MNA to address the prevailing groundwater contamination at the site. The following sections outline the tasks performed in meeting this objective.

4.1 Quarterly Groundwater Monitoring

In March, June, and September of 2013, EIC conducted quarterly groundwater sampling and water level gauging of all available wells for evaluating potential Monitored Natural Attenuation (MNA) monitoring processes. During each of these three events, groundwater samples were collected and analyzed to for pesticide COCs and selected inorganic constituents that may be indicative of natural attenuation. Pesticide contamination analyses included the primary COC benzenehexachloride (BHC) also known as hexachlorocyclohexane, composed of isomers, α-BHC, β-BHC, δ-BHC, and γ-BHC (Lindane). Explicit details of the three groundwater monitoring events are documented in summary reports included as Appendix D, Appendix E, and Appendix F, respectively.

The analytical data from these sampling events along with potentiometric surface data and related field observations will be utilized in determining the prevailing site conditions relative to Risk Reduction Standards (RRS)/Delineation Criteria and to evaluate COC remedial trends.

4.2 Horizontal Delineation

Based on each of the three groundwater monitoring events, EIC has evaluated the horizontal extent of COCs for the alpha-BHC, beta-BHC, delta-BHC isomers across the GPA terminal and the adjacent Agrium property. With the additions of wells MW-2 and MW-3 (previously reported inaccessible) to the well sampling network in March 2013 and September 2013, respectively, EIC was able to more fully delineate the western extent of the isomers in groundwater. Offsite delineation in the areas hydraulically upgradient of GPA property to the north of Spring Creek Road remains undefined.

4.3 COC Trends

Based on each of the three groundwater monitoring events, EIC has evaluated the contaminant flux of the alpha-BHC, beta-BHC, delta-BHC isomers across the GPA terminal and the adjacent Agrium property. By September 2013, the concentrations of the alpha-BHC, beta-BHC, and delta-BHC isomer plumes had slightly increased. As noted in Section 4.2, however, the horizontal extent (especially of beta-BHC, which has historically had the largest horizontal extent) had decreased and receded up-gradient from the Flint River. Considering that it is too early to draw a conclusion, EIC will continue to evaluate data from subsequent groundwater monitoring events to determine if these plumes continue to shrink in overall extent and concentration.

SECTION 5

5 GA EPD COMMENT LETTER

Concurrent with the VIRP approval letter, EPD sent GPA a comment letter dated November 2, 2012. The response to each comment by GPA is as follows:

EPD Comment 1:
Groundwater concentrations on Agrium parcel 19 exceed cleanup standards in the vicinity of MW-20 and MW-21 and possibly further south on the parcel. EPD encourages Georgia Ports Authority (GPA) to work with Agrium to include impacted areas of Parcel 19 as qualifying property under the Act.

Response to EPD Comment 1:

As discussed in the VIRP, the BHC in groundwater in the vicinity of MW-20 and MW-21 appears to be originating from off-site source(s) located hydraulically up-gradient from GPA's Bainbridge terminal. GPA is currently updating its site conceptual model to further evaluate the potential source(s) that may be contributing BHC constituents in the groundwater at the GPA's terminal and at upgradient locations. Depending on the actual source of BHC, another potential responsible party (PRP) may be required to address the impacted areas of Parcel 19. Based on historical findings, EPD may consider contacting other property owners that are located hydraulically upgradient of the GPA property to determine the potential source(s).

EPD Comment 2:
Based on our review of the VIRP and EPD's files, we have determined that Parcel 18 is not eligible as a qualifying property under Section 12-8-105(1) of the Act. This is because the parcel is not listed on the Hazardous Site Inventory and no documentation of a release of regulated substances on the parcel has been provided to EPD.

Response to EPD Comment 2:

GPA concurs with EPD's comment.

EPD Comment 3:
Section 2.4.1 of the application states that the downgradient edge of the dissolved BHC plume is contained within the GPA property. EPA does not concur with this statement as there is no evidence that the contaminant plume does not enter the Flint River. In fact, wells MW-17 and MW-12 appear to be side gradient of the center of the BHC plume and are not representative of the leading edge. Additionally, since there is no evidence that the plume is contained within the GPA property; the immediate down-gradient receptor for the site would be the Flint River.

Response to EPD Comment 3:

GPA has conducted initial research of the sheet pile located downgradient of the prevailing BHC plume and upgradient of the Flint River. Referring to Figure 1 of Appendix A, the sheet pile wall is intercepting the groundwater flow. The site conceptual model, currently in development, will further examine fluid flow hydrodynamics in this area. If required, one additional well may be installed to verify the potential migration pathway(s).

EPD Comment 4:

Section 3.2 of the application asserts that additional investigation is needed to determine the true mechanism that attenuates pesticide contaminants in groundwater. In section 4.1.3, GPA indicates that MNA is the practical remedial strategy and proposes to monitor indicator parameters. As the BHC degradation pathway does not follow the degradation pathway for most chlorinated solvents, a different set of MNA indicator parameters may be needed to evaluate MNA as a viable option. Please provide additional details on what indicator parameters may be appropriate to show that attenuation is occurring including possible metabolites for BHC as described previously in the 2009 Corrective Action Plan.

Response to EPD Comment 4:

EIC conducted a review of analytical methods for BHC metabolites that were previously discussed in the 2009 Corrective Action Plan (CAP). There are no commercial laboratories capable of performing the specified analytical tests. EIC is currently evaluating other options for monitoring the metabolites. It is important to note, however, that the BHC plume has remained stable, as discussed in Section 4.

EPD Comment 5:

Section 2.2.2 states that horizontal groundwater delineation is complete except to the North. However, delineation has also not been completed west of MW-13 as demonstrated by the dashed lines on the August 2009 isoconcentration maps.

Response to EPD Comment 5:

As noted in Section 4.2, the horizontal delineation is now complete to the west of MW-13 and this is indicated by solid RRS isoconcentration lines in the vicinity of MW-13 in the March, June, and September quarterly monitoring report figures.

EPD Comment 6:

Groundwater samples collected in September of 2001(refer to MACTEC's December 3, 2002 Addendum to Revised Compliance Status Report) appear to indicate that there has not been a release of metals in groundwater on the qualifying property. Therefore, the additional investigation/delineation of metals proposed in the VIRP is not required unless GPA has reason to believe that metals contamination exists.

Response to EPD Comment 6:

GPA concurs with EPD's comments.

EPD Comment 7:
Table 2 of the 2012 Groundwater Monitoring Report and Table 2-6 of the VIRP have j-flags for many of the April 2012 beta-BHC detections even though the detections were not flagged by the laboratory. Please explain this discrepancy or remove these j-flags from future tables.

Response to EPD Comment 7:

EIC has revised the cumulative Table 3 that summarizes the results of the analysis of organochlorine pesticides, as noted in the analytical data summary in the quarterly reports referenced in Section 4.

EPD Comment 8:
Section 2.2.1 states that soil on the North parcel has been remediated to below Type 4 risk reduction standards (RRS) and that soil contamination has been horizontally delineated on site. However, EPD has been unable to concur with the conclusion as detailed in our May 2, 2011 and December 30, 2011 response letters. Please respond to Comments 1 and 9 of the May 2, 2011 letter by the second Progress Report to address these deficiencies (note that the required delineation figure(s) may use Type 1 risk reduction standards (RRS) in lieu of background as allowed by the Act). Also, please submit a copy of the laboratory analytical results for soil samples collected at MW-22.

Response to EPD Comment 8:

EIC is awaiting additional backup documents from previous contractors to complete this task. Analytical results for well MW-22 is included as Appendix G.

EPD Comment 9:
Section 4.3 proposes soil removal in area of concern (AOC) 3, unless there is no risk of migration to surface waters. However, that exceedance must be excavated or otherwise addressed, regardless, since there are no proposed controls for that area.

Response to EPD Comment 9:

GPA will delineate the horizontal extent of soil contamination in an area where one previous soil sample exceeded RRS. Based on the results of that investigation, GPA will either excavate a limited amount of soil that exceed the RRS or explore additional options.

EPD Comment 10:
Figure 4-1 shows the location of the proposed fencing to control exposure to contaminated soils within AOC-1. However, the fencing does not encompass all known RRS exceedances. Please adjust proposed fencing or explain in future progress reports.

Response to EPD Comment 10:

GPA reexamined the historical analytical results in AOC-2 and adjusted the fence alignment such that contaminated soils are contained within the fenced area. Please refer to Figure 1 in Appendix B for the adjusted fence alignment.

EPD Comment 11:

Most of the soil samples collected in AOC-2 exceeded RRS. Therefore, additional soil sampling may be necessary to determine the appropriate boundaries for the proposed engineering and institutional controls.

Response to EPD Comment 11:

GPA has conducted additional sampling in AOC-2 area as noted in Section 3.2. GPA is currently evaluating options for management of contaminated soils in the extended area.

EPD Comment 12:

As a reminder, EPD's December 30, 2011 letter stated that future samples collected for purposes of soil delineation at the site should be grab samples rather than composite samples. Composite samples are acceptable for analyzing waste piles for proper disposal, and grab samples that are representative of discrete sample depths are appropriate for demonstration of the definition of the extent of contamination.

Response to EPD Comment 12:

GPA concurs with EPD's comments that some of the soil samples collected prior to the VIRP were composite samples. All future verification samples will be collected as grab samples.

SECTION

6

6 MONTHLY SUMMARY OF HOURS INVOICED

A monthly summary of hours invoiced for the aforementioned tasks during the period from May 2013 through October 2013 are summarized in Appendix H.

SECTION 7

7 SUMMARY

Since the initiation of VIRP tasks in February 2013, GPA has completed several tasks to meet the VIRP goals. A land survey was utilized to find one of two monitoring wells that were historically reported as unlocated. During this survey, EIC also marked the location of a proposed security fence line for management of excavated soils at AOC-1. Additionally, the survey enabled GPA to rectify potentiometric anomalies resulting from an erroneous well TOC elevation.

Progress was made in each of the areas of concern in meeting the primary goal of managing contaminated soils. For AOC-1, bid specifications have been developed to install a security fence to fully enclose contaminated soils. In AOC-2, the horizontal extent of the COCs in soil was delineated. GPA is currently preparing for further defining the hot spot in AOC-3.

To verify whether COCs in groundwater were being naturally attenuated, GPA has initiated quarterly groundwater sampling and analysis. Based on three quarterly groundwater monitoring events, it is apparent that the overall extent of the BHC plume has reduced. GPA will continue monitoring the trends to determine the rate of attenuation.

SECTION

8

8 REFERENCES

Environmental International Corporation (EIC), 2012. "*VIRP Application, BHC Remediation*", Bainbridge, Georgia, July 31, 2012.

APPENDIX A

ENVIRONMENTAL INTERNATIONAL CORPORATION
161 Kimball Bridge Road, Suite 100
Alpharetta, Georgia 30009
Phone: 770-772-7100
Fax: 770-772-0555
Website: www.eicusa.com

October 28, 2013

Ms. Natalie Dawn
Georgia Ports Authority
PO Box 2406
Savannah, Georgia 31402

Re: **June 2013 Land Survey Report, GPA Bainbridge Terminal, HSI Site No. 10071, Bainbridge, Georgia**

File: 400007 – 4.2

Dear Ms. Dawn:

In June 2013, EIC acquired a land surveyor to complete various surveying tasks at the above reference site in Bainbridge, Georgia. This report documents the project objectives and results of the field activities. The geographical survey was conducted, under EIC's supervision, by a professional land surveyor licensed in the State of Georgia.

1.0 PROJECT BACKGROUND

During the VIRP implementation, EIC determined that the following five areas that needed to be addressed for the successful completion of the project goals set forth in the Voluntary Investigation and Remediation Plan (VIRP) for the GPA Bainbridge Terminal (EIC, 2012).

1.1 Locate Wells MW-3 and MW-9

Monitoring wells MW-3 and MW-9 had been un-located since September, 2001, and therefore, had not been sampled in 12 years (EIC, 2012-Table 2-5). Because locating these two wells would allow EIC to more thoroughly delineate the horizontal extent of pesticide constituents of concern (COCs) established in the VIRP, an attempt was made to locate them. Historical data acquired from the previous consultant showed that wells MW-3 and MW-9 were both located in a wooded area on the western side of the South Parcel of the terminal. EIC initially visually searched for these wells in March 2013 but was unsuccessful in locating them. EIC considered utilizing a land surveyor to identify these well locations.

1.2 Plot Proposed Security Fence Line

Per the management of contaminated soils established in the VIRP, engineering controls via a security fence has been proposed to be installed to limit the exposure risk of visitors, contractors, and site workers to established COCs in soils south and west of the RSW. Utilizing historic soil sampling results, EIC identified the area that needed to be located within a fence. It was therefore important to stake out the fence location and alignment.

1.3 Plot Bulkhead/Sheet Piling

Since bulkhead sheet piling, located on the south side of the terminal adjacent to the Flint River, may potentially act as an impoundment to limit the flow of groundwater and COCs towards the Flint River, it is important to know the exact position of the bulkhead for developing an accurate site conceptual model. A surveying event was required to determine the approximate location and alignment.

1.4 Investigate Well Top-of-Casing Elevation Anomaly

During the preparation of the initial April 2012 (EIC, 2012) and March 2013 groundwater potentiometric surface maps utilizing historical TOC elevation data, EIC observed that the equipotential lines in the North Parcel along the Spring Creek Road were abnormal considering the geology beneath the site. Upon further examination, it appeared that the potentiometric surface at MW-16 was approximately 1 foot higher than four wells in the relative vicinity of MW-16 even though all five wells apparently had similar TOC elevations. Of these four wells, MW-20 is the nearest well and lies approximately 400 feet southwest of MW-16. The three other nearby wells include MW-10, MW-21, and MW-22. EIC therefore suspected that the TOC elevations in the area may not be representative of prevailing site conditions. It was therefore necessary to verify the TOC elevations of MW-16 and of the surrounding wells.

1.5 Plot Proposed Soil Borings

To define the horizontal extent of soil contamination in the area of concern (AOC)-2 and AOC-3 areas, EIC proposed to conduct 10 soil borings to a depth of 5 feet below grade and to collect 20 soil samples from soil collected from these borings in the areas northwest of Warehouse 3 (WH3) and east of the RSW. Surveying was required to identify and stake out the proposed boring locations.

2.0 PROJECT OBJECTIVES

To address the tasks identified in Section 1.0, EIC established the following objectives:

1. Utilizing conventional survey techniques (and, if necessary, GPS and/or a magnetometer/metal detector) and state plane coordinate data from previous site surveys, locate wells MW-3 and MW-9.

2. Utilizing land surveying instruments, determine the coordinates of the trace of the proposed fence, gates, and the locations of corner posts and to mark these coordinates with wooden stakes.
3. Survey selected points along the trace of the bulkhead in order to accurately depict the structure on subsequent maps, cross sections, and other visual depictions.
4. To rectify the 1-foot discrepancy from ground surface elevations at MW-16, verify the coordinates of MW-16 and selected wells in the vicinity of MW-16.
5. Measure and mark the locations of the proposed soil locations in AOC-2 and AOC-3 areas with wooden stakes and survey the horizontal/vertical coordinates of these locations in order to accurately present the data from this investigation.

3.0 FIELD ACTIVITIES

On June 4 and 5, 2013, EIC retained Donaldson Garret & Associates (DGA) to conduct the surveying services required at the Bainbridge Terminal. All survey points were referenced to horizontal state plane coordinates of North American Datum (NAD) 83 and vertical elevation coordinates of North American Vertical Datum (NAVD) 88, unless otherwise noted.

3.1 Locate Wells MW-3 and MW-9 and Surveyed MW-3

The field surveyor crew cut a straight temporary path (through a dense wooded area and thick brush) starting from an existing pin that had been driven into the concrete pad of well MW-6 towards the known historical coordinates of well MW-3 in order to access and locate this well. After the surveyors marked the known coordinates for MW-3 with a wooden stake, EIC visually located the well approximately 70 feet further out from the end of the path from the marked location – opposite of wells MW-6 and MW-14. The surveyors then recorded the actual coordinates of MW-3 including both TOC and ground surface elevations. The surveyors marked the trail to MW-3 with survey tape in trees along the path, per EIC's request, so that the well could be located after the regrowth of brush. An extended attempt was made to locate well MW-9 but neither the surveyors nor EIC were successful in doing this. The surveyors placed a wooden stake at the location of MW-9 according to the known historical coordinates.

3.2 Surveyed Proposed Security Fence Line

In preparation for surveying the trace of the proposed security fence line, the terminal manager scraped accumulated soil off of the asphalt in the southern corner of the RSW parking lot with a top loader in order for EIC and the surveyors to discern the edge of the pavement. The surveyors then marked the edge of the asphalt from the southeast corner of the RSW at a column to a point near the main office, measuring the coordinates and marking every 50 feet with wooden stakes. The surveyors also marked the locations of the proposed personnel and vehicle gates and the corner posts with wooden stakes. The surveyors then cut a temporary path through the brush in order to mark and measure the portion of the fence to be located within the wooded area south of the RSW. The surveyors then completed the fence line survey at the back of the RSW.

3.3 Surveyed Bulkhead/Sheet Piling

DGA surveyed a total of 14 points selected by EIC along or near the bulkhead. Two points were chosen at the low end of a ramp. Ten more points were located on the upper concrete deck directly above the sheet piling bulkhead and on the outer edge of the concrete pier that extends away from the sheet piling and over the Flint River. While the bulkhead and sheet piling were being surveyed, EIC discovered a sinkhole approximately 95 feet west of the bulkhead ramp and adjacent to the north side of the bulkhead. As directed by EIC, the surveyors recorded two additional coordinates on the northern side of the sink hole to illustrate the size of the sink hole, as the southern side of the sink hole was already defined by the line formed by the surveyed points along the bulkhead. EIC plans to further evaluate this sink hole and the sheet piling adjacent to it at a later date.

3.4 Surveyed 5 Wells to Evaluate Top-of-Casing Elevation Anomaly

The surveyors verified the coordinates, including the TOC and ground surface elevation of monitoring well MW-16. In addition, the surveyors collected horizontal and vertical coordinates of each of four additional monitoring wells along Spring Creek Road and east of the GPA terminal main driveway.

3.5 Marked and Surveyed Proposed Soil Borings

The surveyors marked the locations of 10 proposed soil borings with wooden stakes as directed by EIC. After these locations were marked, DGA surveyed the coordinates. Additionally, the coordinates of two historic soil boring locations (NW-SB-01 and NW-SB-12) (EIC, 2012 - Figure 2-2), indicated by bore holes through and near to the north side of the WH3 asphalt pavement, were recorded.

4.0 DATA EVALUATION

DGA provided EIC with certified horizontal and vertical coordinates of all surveyed wells and site features in a spreadsheet format (Attachment A), as well as three certified drawings on which survey data points were plotted. The first drawing displays the trace of the security fence in the area of the RSW and two of the ten proposed soil boring locations, as well as an inset of the bulkhead data points (Attachment B). The second drawing (consisting of two parts) displays the five monitoring wells surveyed along Spring Creek Road, as well as an inset of 9 of the ten proposed soil boring locations and 2 former soil boring locations (Attachment C).

After EIC first received the draft raw survey data from DGA, EIC performed quality control checks on the data verify if the new survey data appeared representative of site conditions. When comparing the raw survey data to the historical data, EIC noticed a consistent elevation error of approximately 0.23 feet in the surveyed TOC elevation and ground surface elevation of the five wells alongside Spring Creek Road. After EIC notified DGA of this error, the surveyor returned to the Bainbridge Terminal on June 20, 2013 to resurvey the wells and obtain correct well coordinates. After resurveying, DGA determined that, during the first survey event, incorrect survey control elevations had been used. DGA then provided EIC with an updated spreadsheet and base map.

Based on the final survey data, EIC concluded from an evaluation of the survey data that the historical TOC elevation data for MW-16 was in fact incorrect and that the actual TOC elevation was 1.02 feet lower than the TOC elevation recorded in the historical data. EIC also determined that the historical TOC elevations of the other four wells surveyed were confirmed to be correct to within an accuracy of 0.04 of a foot.

5.0 BASEMAP REVISIONS

Utilizing DGA's final certified survey data, EIC updated the current base map of the Bainbridge Terminal. Figure 1 is the updated base map, note that it includes the correct location of monitoring well MW-3. This new, more accurate base map will be utilized to represent environmental data in all future assessment and remedial reports.

6.0 REFERENCES

Environmental International Corporation (EIC), 2012. *"VIRP Application, BHC Remediation".* Bainbridge, Georgia, July 2012.

We appreciate the opportunity to have served you on your project needs. If you have any questions, please call or e-mail me.

Sincerely,

ENVIRONMENTAL INTERNATIONAL CORPORATION

Raj Mahadevaiah, P.E., C.G.W.P.

President & CEO

Cc: Alan Sanders, EIC

FIGURES

MOUNT OLIVE ROAD

GEORGIA GULF SULFUR

GEORGIA HWY 253

SPRING CREEK ROAD

NORTH PARCEL

AGRIUM

SOUTH PARCEL

ERGON

OFFICE

R.S.W.

W.H.1

W.H.2

W.H.3

N.L.

FLINT RIVER

MW-1

MW-1A

MW-2

MW-3

MW-4U

MW-5A

MW-5D

MW-6

MW-7

MW-8

MW-9

MW-10

MW-11

MW-12

MW-13

MW-14

MW-15

MW-16

MW-17

MW-18

MW-19

MW-20

MW-21

MW-22

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 1: SITE MAP

DESIGNED BY: A.S.	DRAWN BY: W.G.	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

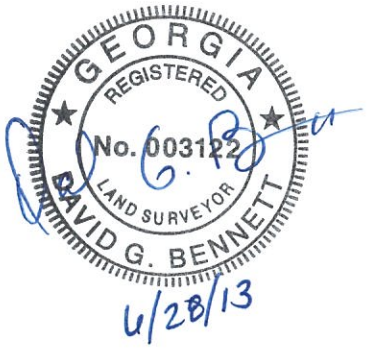
SCALE:	DATE:	FILE:	SHEET NO.:
SEE BAR SCALE	10/9/2013	400007 – GPA BAINBRIDGE	

ATTACHMENT A

ENVIRONMENTAL INTERNATIONAL CORP
GA PORT AUTHORITY-BAINBRIDGE TERMINAL
SOIL BORING SURVEY DATA
PREPARED BY DONALDSON, GARRETT, & ASSOC, INC.
6/13/2013; rev 6/28/13
FIELD WORK PERFORMED: June 5, 2013 & June 20, 2013

ID	NORTHING	EASTING	ELEV
SB-01	327279.64	2158202.19	94.80
SB-12	327318.32	2158240.53	95.55
RSW ISLAND S	327290.98	2158105.48	95.38
RSW ISLAND N	327376.49	2158034.06	96.65
WH3 N1	327319.93	2158167.85	94.39
WH3 S1	327304.41	2158181.28	94.75
WH3 S2	327333.76	2158215.02	95.39
WH3 N2	327348.35	2158201.48	95.04
WH3 N3	327376.68	2158233.60	95.79
WH3 S3	327361.81	2158246.78	95.61
WH3 S4	327399.34	2158291.06	95.89
WH3 N4	327414.40	2158277.60	95.75

NOTE: COORDINATES SHOWN ARE GA STATE PLANE GRID, WEST ZONE, NAD83. ELEVATIONS ARE NAVD 88 DATUM.



ENVIRONMENTAL INTERNATIONAL CORP
GA PORT AUTHORITY-BAINBRIDGE TERMINAL
MONITORING WELL SURVEY DATA
PREPARED BY DONALDSON, GARRETT, & ASSOC, INC.
6/12/2013; rev 6/26/13
FIELD WORK PERFORMED: June 5, 2013 & June 20, 2013

ID	NORTHING	EASTING	ELEVATION	
			GROUND	TOC
MW-3	326668.711	2157839.22	94.30	97.13
MW-10	327805.096	2157924.22	99.80	100.02
MW-16	328405.109	2158679.02	97.50	97.17
MW-20	328204.206	2158350.82	96.90	96.61
MW-21	327968.363	2158101.52	97.50	97.58
MW-22	328254.300	2158265.85	99.30	98.90

NOTE: COORDINATES SHOWN ARE GA STATE PLANE GRID, WEST ZONE, NAD83. ELEVATIONS ARE NAVD 88 DATUM.



ENVIRONMENTAL INTERNATIONAL CORPORATION
SURVEY DATA REPORT
GEORGIA PORT AUTHORITY - BAINBRIDGE TERMINAL
BY DONALDSON, GARRETT, AND ASSOCIATES, INC.
June 28, 2013

DGA PT#	NORTHING	EASTING	GROUND ELEV	FIELD CODE/DESC
5318	326668.71	2157839.22	94.56	MW-3 AS SURVEYED
5319	326909.90	2158285.32	96.20	TRV 5319
5320	326526.84	2158291.85	94.32	TRV 5320
5321	327197.88	2158040.01	97.99	CHF B
5322	327202.39	2158044.11	97.93	CHF
5323	327185.01	2158059.16	97.59	CHF
5324	327220.99	2158097.62	96.85	CHF PC
5325	327236.91	2158126.27	95.91	CHF
5326	327231.65	2158159.86	95.13	CHF PT
5327	327193.49	2158195.47	95.10	CHF
5328	327154.87	2158228.50	95.32	CHF
5329	327117.97	2158260.10	95.19	CHF
5330	327079.88	2158292.69	95.43	CHF
5331	327042.61	2158324.50	95.33	CHF
5332	327007.76	2158353.77	95.96	CHF PC
5333	326987.25	2158361.68	96.11	CHF
5334	326964.61	2158364.81	96.01	CHF PT
5335	326909.87	2158363.10	95.89	CHF
5336	326910.07	2158323.85	94.22	CHF
5337	326928.51	2158364.03	95.98	CHF GATE
5338	326959.32	2158364.94	96.04	CHF GATE
5339	326909.96	2158243.71	96.64	CHF
5340	326933.65	2158172.07	101.12	TRV 5340
5341	327206.09	2158082.02	97.32	CHF GATE
5342	327210.03	2158086.42	97.22	CHF GATE
5343	326943.99	2158140.86	100.34	CHF
5344	326957.59	2158099.82	96.74	CHF
5345	326970.10	2158062.07	96.52	CHF GATE
5346	326979.50	2158033.70	95.95	CHF GATE
5347	326989.71	2158002.88	96.68	CHF
5348	326987.01	2158010.89	96.75	TRV 5348
5349	327004.70	2157957.53	99.39	CHF
5350	327021.07	2157908.18	101.43	CHF
5351	327036.17	2157862.62	101.00	CHF
5352	327049.44	2157822.61	101.28	CHF
5353	327061.31	2157787.04	102.08	TRV 5353\CHF COR
5354	327112.77	2157797.27	101.85	CHF
5355	327166.77	2157808.06	101.25	CHF GATE TRV 5355
5356	327160.88	2157806.89	101.16	CHF GATE
5357	327225.09	2157869.81	98.16	CHF E
5358	326606.11	2158886.79	93.89	TRV 5358

5359	326595.10	2159048.57	92.98	EC BULKHEAD
5360	326564.90	2158993.44	92.84	EC
5362	326614.59	2158966.41	93.61	EC
5363	326603.47	2158946.02	93.52	EC
5364	326553.96	2158972.42	92.89	EC BULKHEAD
5366	326470.40	2158818.47	92.93	EC
5367	326554.45	2158973.22	87.55	LOWER LEVEL SW COR
5368	326564.83	2158993.28	88.00	LOWER LEVEL NE COR
5369	326506.47	2158871.12	92.91	COR SINKHOLE
5370	326511.40	2158881.05	92.94	COR SINKHOLE
5371	326432.45	2158838.92	92.47	EC
5372	326470.36	2158818.62	92.91	NE COR DECK
5374	326380.11	2158741.96	92.45	EC
5375	326418.62	2158721.19	93.01	EC
5376	326405.43	2158696.30	93.06	EC BULKHEAD
5377	328204.21	2158350.82	96.86	MW-20
5378	328254.30	2158265.85	99.10	MW-22
5379	327968.36	2158101.52	97.78	MW-21
5380	327805.10	2157924.22	99.90	MW-10
5381	328405.11	2158679.02	97.15	MW-16
5382	327290.98	2158105.48	95.18	RSW ISLAND S
5383	327376.49	2158034.06	96.45	RSW ISLAND N
5384	327319.93	2158167.85	94.39	WH3 N1
5385	327304.41	2158181.28	94.76	WH3 S1
5386	327333.76	2158215.02	95.39	WH3 S2
5387	327348.35	2158201.48	95.04	WH3 N2
5388	327376.68	2158233.60	95.79	WH3 N3
5389	327361.81	2158246.78	95.61	WH3 S3
5390	327399.34	2158291.06	96.09	WH3 S4
5391	327414.40	2158277.60	95.55	WH3 N4
5392	327318.32	2158240.53	95.35	SB-12
5393	327279.64	2158202.19	94.80	SB-01
7000	327754.07	2157707.77	98.28	CK TRV 9
7001	327118.81	2158130.63	102.31	CK TRV 5033
7002	327277.73	2158152.02	95.69	EA PC
7003	327274.04	2158166.77	95.09	EA
7004	327275.64	2158177.57	94.81	EA PT
7005	327311.27	2158219.23	95.52	EA
7006	327345.34	2158258.41	95.74	EA
7007	327388.04	2158308.78	95.80	EA
7008	327385.88	2158310.19	95.69	EA

CODE ABBREVIATION LEGEND

EA = EDGE OF ASPHALT

EC = EDGE OF CONCRETE

PT = POINT OF TANGENT

PC = POINT OF CURVATURE

B = BEGIN

E= END

CK = CHECK

TRV (+ PT #) = TRAVERSE POINT/SURVEY CONTROL POINT

WH = WAREHOUSE

RSW = ROCK SALT WAREHOUSE

N = NORTH

S = SOUTH

E = EAST

W = WEST

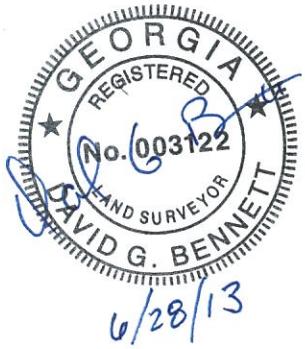
MW = MONITORING WELL

SB = SOIL BORING

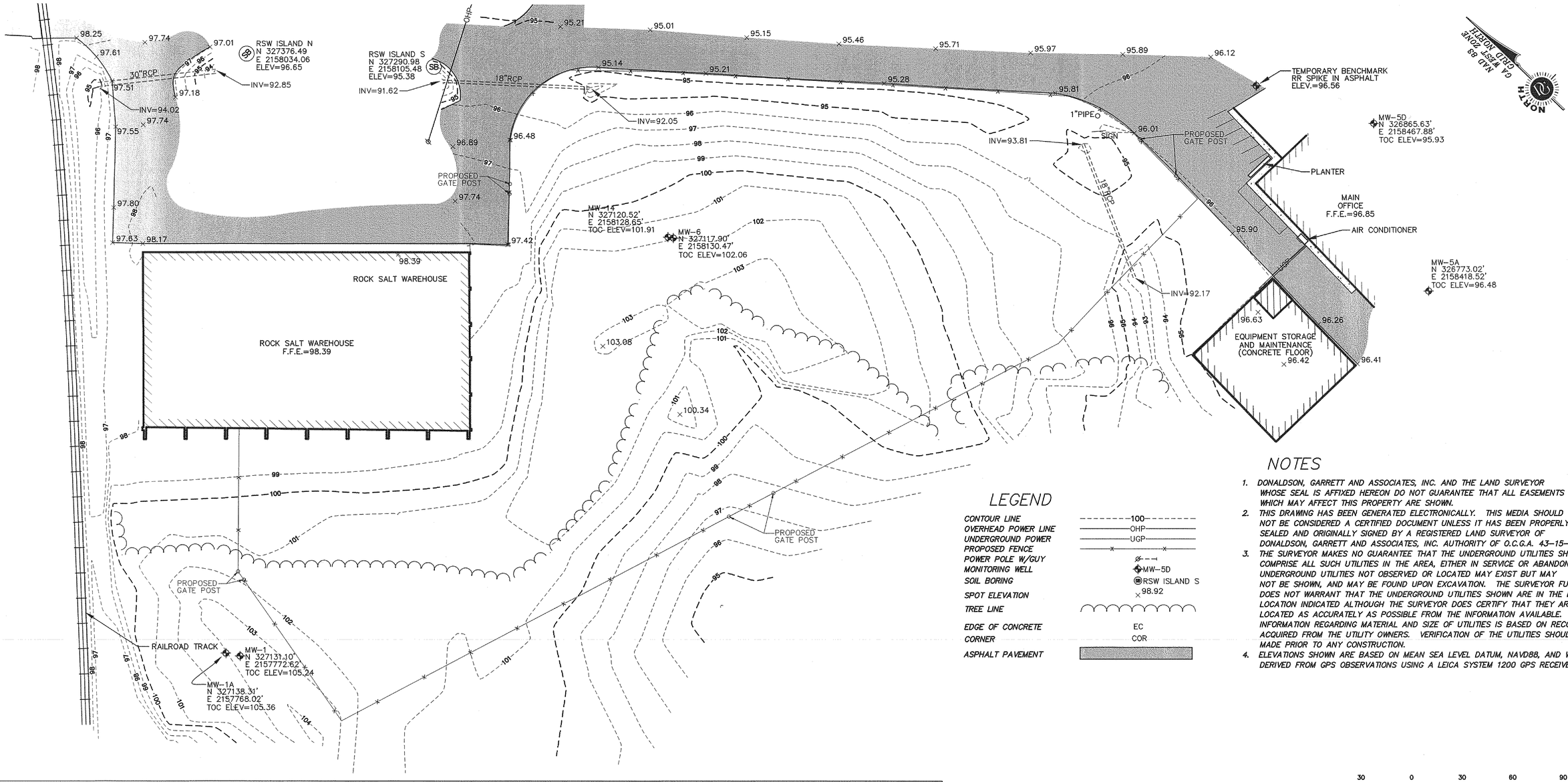
COR = CORNER

CHF = CHAIN LINK FENCE

NOTES: COORDINATES LISTED ARE GA STATE PLANE GRID, WEST ZONE, NAD 83 AND ELEVATIONS LISTED ARE NAVD88(GEOID03). BOTH WERE ESTABLISHED BY STATIC GPS SESSIONS USING A LEICA SYSTEM 1200 DUAL FREQUENCY GPS RECEIVER AND POST PROCESSED WITH LEICA GEO SOFTWARE AND NGS OPUS.



ATTACHMENT B



LEGEND

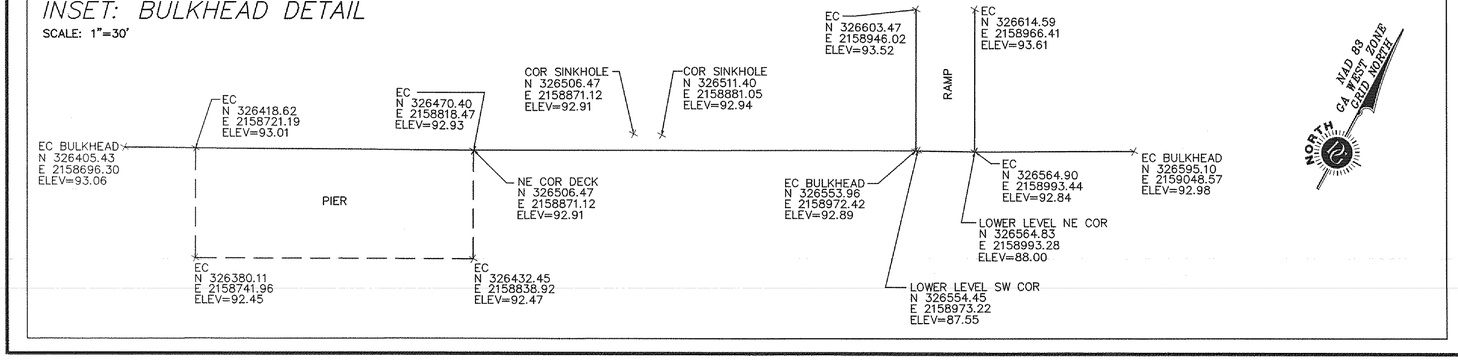
CONTOUR LINE	100
OVERHEAD POWER LINE	OHP
UNDERGROUND POWER	UGP
PROPOSED FENCE	x x
POWER POLE W/GUY	
MONITORING WELL	MW-5D
SOIL BORING	RSW ISLAND S
SPOT ELEVATION	98.92
TREE LINE	
EDGE OF CONCRETE	EC
CORNER	COR
ASPHALT PAVEMENT	

NOTES

1. DONALDSON, GARRETT AND ASSOCIATES, INC. AND THE LAND SURVEYOR WHOSE SEAL IS AFFIXED HEREON DO NOT GUARANTEE THAT ALL EASEMENTS WHICH MAY AFFECT THIS PROPERTY ARE SHOWN.
2. THIS DRAWING HAS BEEN GENERATED ELECTRONICALLY. THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT UNLESS IT HAS BEEN PROPERLY SEALED AND ORIGINALLY SIGNED BY A REGISTERED LAND SURVEYOR OF DONALDSON, GARRETT AND ASSOCIATES, INC. AUTHORITY OF O.C.G.A. 43-15-22.
3. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. UNDERGROUND UTILITIES NOT OBSERVED OR LOCATED MAY EXIST BUT MAY NOT BE SHOWN, AND MAY BE FOUND UPON EXCAVATION. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. INFORMATION REGARDING MATERIAL AND SIZE OF UTILITIES IS BASED ON RECORDS ACQUIRED FROM THE UTILITY OWNERS. VERIFICATION OF THE UTILITIES SHOULD BE MADE PRIOR TO ANY CONSTRUCTION.
4. ELEVATIONS SHOWN ARE BASED ON MEAN SEA LEVEL DATUM, NAVD88, AND WERE DERIVED FROM GPS OBSERVATIONS USING A LEICA SYSTEM 1200 GPS RECEIVER.

INSET: BULKHEAD DETAIL

SCALE: 1"=30'



30 0 30 60 90

GRAPHIC SCALE IN FEET

GEORGIA REGISTERED No. 3122 LAND SURVEYOR DAVID G. BENNETT

TOPOGRAPHIC SURVEY

FOR

ENVIRONMENTAL INTERNATIONAL CORPORATION

OF

GEORGIA PORT AUTHORITY
BAINBRIDGE TERMINAL

DECATUR COUNTY BAINBRIDGE GEORGIA

6-23-10 ADDED TOPO NW OF ROCK SALT WAREHOUSE	R.L.S. NO. 3122	DSGN: N/A
6-28-13 ADDED SB'S, BULKHEAD DETAIL, AND	DATE: 10/21/09	DRWN: MH
PROPOSED FENCE LOCATION	CHKD: DB	FIELD FILE: B186;B346
10-14-13 CHANGED LINETYPE ON PIER AND BULKHEAD	SCALE: 1"=30'	DRAWING NO. 2934-09-D
	PROJ. NO.: 1684-031-D1	SHEET 1 OF 1
	FIELD BOOK: EDC	

DONALDSON, GARRETT, & ASSOCIATES, INC.
MACON • CHARLOTTE
4875 RIVERSIDE DRIVE P.O. BOX 7306
MACON, GA 31210
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http://www.dg-a.com

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B346.DWG/30 PLOT DATE: 06/17/2013 BY: david

ATTACHMENT C

NAD 83
GA WEST ZONE
GRID NORTH

NORTH

7000
98.276
CK TRV 9

GA STATE ROUTE 253
SPRING CREEK ROAD

MAIN DRIVEWAY

STOP SIGN

SIGN

TEMPORARY BENCHMARK RR SPIKE IN 15"PINE ELEV.=100.95

MW-7
N 327594.87'
E 2157836.42'
TOC ELEV=98.16

MW-10
N 327805.10'
E 2157924.22'
TOC ELEV=100.02

MW-21
N 327968.36'
E 2158101.52'
TOC ELEV=97.58

MW-22
N 328254.30'
E 2158265.85'
TOC ELEV=98.90

MW-20
N 328204.21'
E 2158350.82'
TOC ELEV=96.61

CABLE MRKR

GAS MRKR

TELPED

15"PINE
8"OAK
10"PINE
15"PINE
12"PINE
20"PINE
6"PINE
7"PINE

SIGN
6"PIPE
2"PVC RISER
4"IRON PIPE INV=97.57
GATE STOPS
GATE

INV=94.97
18"RCP INV=94.31

CONCRETE PAD

RAILROAD TRACK

NOTES

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4. ELEVATIONS SHOWN ARE BASED ON MEAN SEA LEVEL DATUM, NAVD88, AND WERE DERIVED FROM GPS OBSERVATIONS USING A LEICA SYSTEM 1200 GPS RECEIVER.

LEGEND

CONTOUR LINE	100
OVERHEAD POWER LINE	OHP
OVERHEAD TELEPHONE LINE	OHT
TELEPHONE PEDESTAL	TELPED
POWER POLE W/GUY	
MONITORING WELL	MW-10
TOP OF CASING	TOC
BOLLARD	
SIGN	
FIRE HYDRANT	
WATER VALVE	
WATER METER	
GAS VALVE AND METER	
SPOT ELEVATION	98.92
TREE (SIZE AND TYPE NOTED)	
ASPHALT PAVEMENT	
TREE LINE	

30 0 30 60 90
GRAPHIC SCALE IN FEET

GEORGIA REGISTERED No. 3122 LAND SURVEYOR DAVID G. BENNETT

TOPOGRAPHIC SURVEY
FOR
ENVIRONMENTAL INTERNATIONAL CORPORATION
OF
GEORGIA PORT AUTHORITY
BAINBRIDGE TERMINAL
DECATUR COUNTY BAINBRIDGE GEORGIA

10/20/09 – ADDED TOPO AREA	R.L.S. NO. 3122	DSGN: N/A
06/28/13 – ADDED MW'S	DATE: 9/30/09	DRWN: MH
	CHKD: DB	FIELD FILE: B186;B346
	SCALE: 1"=30'	DRAWING NO. 2931-09-D
	PROJ. NO.: 2070-001-D1	SHEET 1 OF 2
	FIELD BOOK: EDC	

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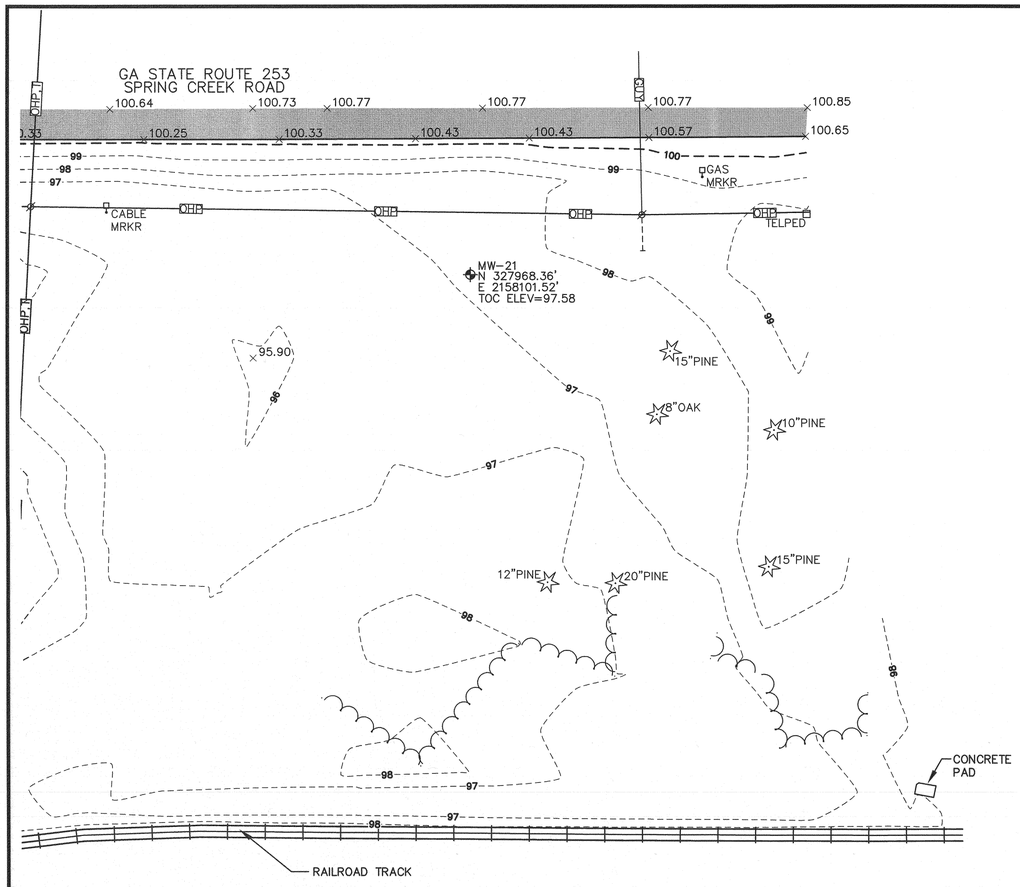
ACAD-B346_V2013.DWG/30 PLOT DATE: 07/01/2013 BY: david



MW-22
N 328254.30'
E 2158265.85'
TOC ELEV=98.90

MW-20
N 328204.21'
E 2158350.82'
TOC ELEV=96.61

MW-16
N 328405.109'
E 2158679.02'
TOC ELEV=97.17

NAD 83
GA WEST ZONE
GRID NORTH
NORTH

LEGEND

CONTOUR LINE	100
OVERHEAD POWER LINE	OHP
OVERHEAD TELEPHONE LINE	OHT
TELEPHONE PEDESTAL	TELPED
POWER POLE W/GUY	
MONITORING WELL	MW-10
SOIL BORING	WH3 N1
BOLLARD	
SIGN	
FIRE HYDRANT	
WATER VALVE	
WATER METER	
GAS VALVE AND METER	
SPOT ELEVATION	98.92
TREE (SIZE AND TYPE NOTED)	
ASPHALT PAVEMENT	
TREE LINE	

NOTES

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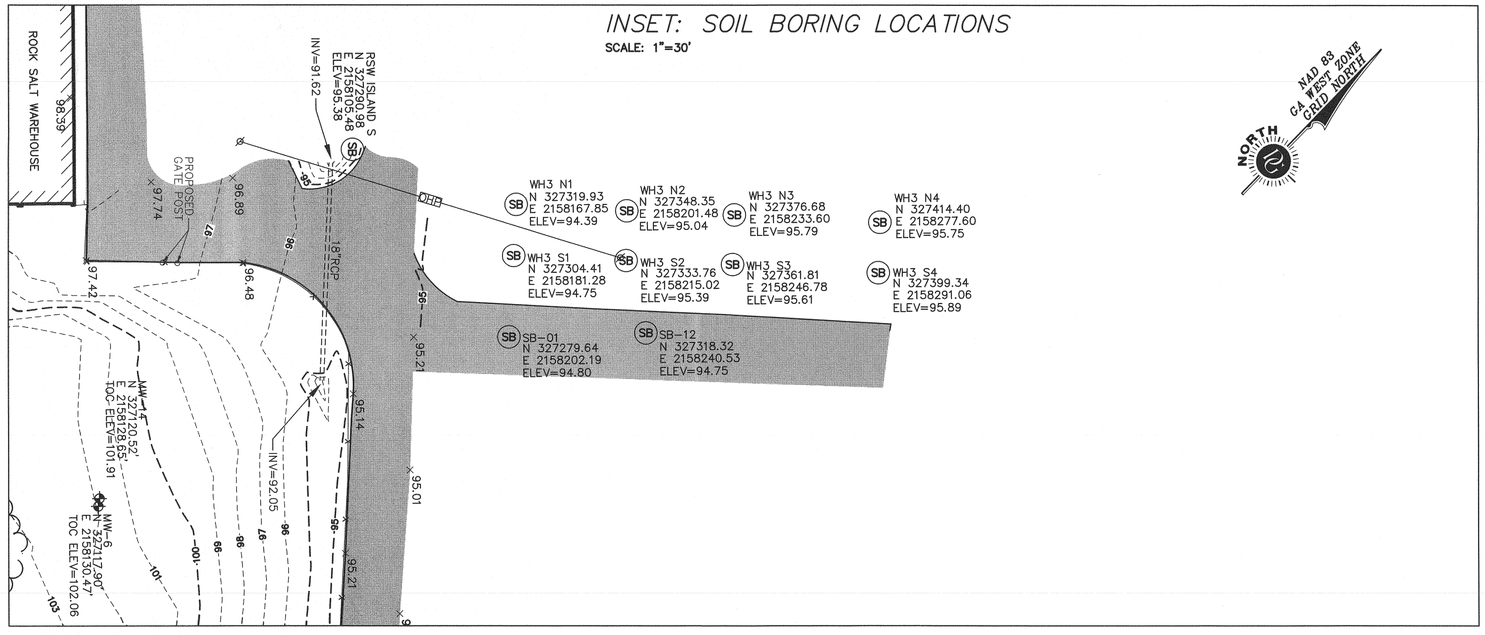
4. ELEVATIONS SHOWN ARE BASED ON MEAN SEA LEVEL DATUM, NAVD88, AND WERE DERIVED FROM GPS OBSERVATIONS USING A LEICA SYSTEM 1200 GPS RECEIVER.

INSET: SOIL BORING LOCATIONS

SCALE: 1"=30'



NAD 83
GA WEST ZONE
GRID NORTH
NORTH

30 0 30 60 90
GRAPHIC SCALE IN FEET

GEORGIA REGISTERED No. 3122 LAND SURVEYOR DANIEL G. BENNETT

TOPOGRAPHIC SURVEY
FOR
ENVIRONMENTAL INTERNATIONAL CORPORATION
OF
GEORGIA PORT AUTHORITY
BAINBRIDGE TERMINAL

DECATUR COUNTY BAINBRIDGE GEORGIA

10/20/09 – ADDED TOPO AREA	R.L.S. NO. 3122	DSGN: N/A
06/28/13 – ADDED MW'S, SB'S AND	DATE: 9/30/09	DRWN: MH
PROPOSED FENCE LOCATION	CHKD: DB	FIELD FILE: B186;B346
	SCALE: 1"=30'	DRAWING NO. 2931-09-D
	PROJ. NO.: 1684-031-D1	SHEET 2 OF 2
	FIELD BOOK: EDC	

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ACAD-B346_V2013.DWG/30 PLOT DATE: 07/01/2013 BY: david

APPENDIX B

IN SITU BHC REMEDIATION PROGRAM, VIRP
GPA TERMINAL, HSI SITE NO. 10071, BAINBRIDGE, GA

FENCE & SIGNAGE BID SPECIFICATIONS

1.0 PURPOSE

On November 2, 2012 the Georgia Environmental Protection Division (EPD) approved a Voluntary Investigation and Remediation Plan (VIRP) for Georgia Ports Authority (GPA's) Bainbridge Terminal located in Bainbridge, Georgia. The plan requires management of contaminated soils utilizing a security fence around an Area of Concern (AOC) designated as AOC-1 located to the south and west of the Rock Salt Warehouse (RSW). The contaminated soils are comprised of pesticide constituents of concern (COC) located beneath a soil mound located in AOC-1. The purpose of this project is to install security fencing around AOC-1 and post signs to prevent unauthorized entry and to warn visitors, contractors, and site workers about the potential exposure risk within the fenced area.

2.0 SCOPE OF WORK

The scope of work entails the installation of a security fence along the surveyed fence line (Figure 1) around AOC-1. The fence line is marked with wooden stakes. The area to be surrounded by the fence does not include fire hydrants or other features that would be necessary to access in an emergency.

The fence shall be 7 feet high with 1 foot of 3-stranded barbed wire on the top for a total height of 8 feet above ground level. The fence shall be constructed of 2-inch mesh 9-gauge chain link fabric. The fabric may be zinc-coated steel, aluminum-coated steel, or polyvinyl chloride coated over zinc- or aluminum-coated steel (DOD, 1993). The bottom of the chain link fabric shall be no higher than 2 inches above grade at any point along the length of the fence (CLFMI). Tension wires will either be interwoven or clipped along the bottom row of fabric diamonds. Line posts will be spaced a maximum of 10 feet apart (DOD, 1993).

The total length of the security fence shall be approximately 1,320 linear feet including two 16-foot gates designed for vehicle traffic as shown in the attached Figure 1. The height of the gate shall be 7 feet. The bottom of the gates will be no higher than 2 inches above grade.

After erecting the fence, the Contractor shall install outward-facing weather-resistant reflective signs, along the fence posted at no less than 200-foot intervals and at least one sign should be installed per fence face and one on each gate (DOD, 1993). Each sign should be visible from approximately 25 feet away from the fence and should display the message "Danger -- Unauthorized Personnel Keep Out."

3.0 MATERIALS AND SPECIFICATIONS

The materials and specifications for the fence and the gate are as follows:

3.1 Fence:

Length = approximately 1320 ft. (inclusive of gate width)
Total Height = 8 ft. (including barbed wire)
Barbed Wire = 1 ft. of 3-stranded on top of the fence
Material of Construction = 9 gauge galvanized chain link

3.2 Vehicle Gate:

Width = 16 ft.
Height = 7 ft.
Gate = Double 8-foot swing gates
Material of Construction = 9-gauge galvanized chain link

4.0 SERVICE REQUIREMENTS

Contractor will be responsible for obtaining any necessary certifications or licenses in accordance with local government ordinances. Contractor shall furnish all materials required to install the fence and material required to post signage as outlined in this bid specifications. Upon completion of the installation program, contractor shall cleanup and discard all construction debris within two business days of completion of the fencing.

5.0 PERFORMANCE REQUIREMENTS

The fence should be constructed with quality materials and workmanship following industry standards and other reference standards specified in this bid document.

6.0 INSURANCE & WARRANTY

To be established per GPA specifications.

7.0 HEALTH & SAFETY

The contractor's site supervisor and all field staff assigned to the task of installing the security fence and signage are required to first attend a 2-hour health and safety orientation by Environmental International Corporation (EIC) prior to the initiation of the construction activities. Contractor shall follow all rules and covenants covered in the safety orientation program. Work should be limited to regular business hours of from 8:00 am to 5:00 pm. Any exceptions to these work hours requires permission from EIC and GPA. All materials should be staged outside the proposed area to be fenced

and away from GPA operations (especially truck and top-loader traffic) and at designated locations to be agreed upon by GPA and the contractor.

8.0 GPA PROJECT MANAGER

Ms. Natalie Dawn
Georgia Ports Authority
PO Box 2406
Savannah, Georgia 31402

9.0 GPA SITE MANAGER & ADDRESS

Mr. Kenneth Slater
Georgia Ports Authority
1321 Spring Creek Road
Bainbridge, Georgia

10.0 REFERENCE STANDARDS:

CLFMI (Chain Link Fence Manufacturers Institute), *Security Fencing Recommendations*, http://www.associationsites.com/page.cfm?usr=clfma&pageid=887. Accessed 8/20/2013

DOD (Department of Defense), 1993, *Military Handbook Design Guidelines for Security Fencing, Gates, Barriers and Guard Facilities,* http://www.wbdg.org/ccb/NAVFAC/DMMHNAV/1013_10.pdf. Accessed 8/20/2013

FIGURES



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

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 1: LOCATION OF PROPOSED SECURITY FENCE AROUND AOC–1

DESIGNED BY: A.S.	DRAWN BY: W.G.	CHECKED BY: A.S.	GEORGIA PORTS AUTHORITY BAINBRIDGE TERMINAL Bainbridge, Georgia
APPROVED BY: R.M.		REVISIONS NO. / DATE: 1 / 9/18/2013	
SEAL:			ENVIRONMENTAL INTERNATIONAL CORP. 161 KIMBALL BRIDGE ROAD ALPHARETTA, GEORGIA 30009
SCALE: SEE BAR SCALE	DATE: 8/22/2013	FILE: 400007–4.3 – GPA BAINBRIDGE	SHEET NO.:

APPENDIX C

ENVIRONMENTAL INTERNATIONAL CORPORATION
161 Kimball Bridge Road, Suite 100, Alpharetta, GA 30009
Phone: 770-772-7100, Fax: 770-772-0555
Website:www.eicusa.com

October 28, 2013

Ms. Natalie Dawn
Georgia Ports Authority
PO Box 2406
Savannah, Georgia 31402

Re: Report on Additional Soil Sampling at AOC-2, GPA Bainbridge Terminal, HSI Site No. 10071, Bainbridge, Georgia.

File: 400007 - 4.2

Dear Ms. Dawn:

In conjunction with the approval of the Voluntary Investigation and Remediation Plan (VIRP), for the above referenced site, the Georgia Environmental Protection Division (EPD) specified additional tasks in a comment letter dated November 2, 2012 (EPD, 2012). One of the additional tasks entailed additional soil sampling in AOC-2 to determine the appropriate boundaries for the proposed engineering and institutional controls pertaining to the management of contaminated soils. This reports presents the results of Georgia Ports Authority's completion of the required task.

1.0 PROJECT OBJECTIVES

The primary objective of this soil sampling program was to determine if soil contaminated with pesticides above risk reduction standards (RRS) extended northward beyond the paved area of AOC-2. As shown in Figure 1, this extended area is comprised of a grassy area between AOC-2 and the northwest arm of AOC-3. AOC-3 includes a drainage ditch/swale from which shallow sediment samples were sampled prior to the VIRP submittal.

2.0 SOIL SAMPLING FIELD PROGRAM

To meet the project objectives, EIC conducted ten soil borings to a depth of 5 feet below ground surface within AOC-2 at various locations depicted in Figure 1. The soil boring and sampling protocol are described in the following sections.

2.1 SITE ACCESS

Prior to EIC's site visit, EIC coordinated with GPA on access to the areas of the proposed soil samples. No limits to site access occurred during field activities.

2.2 SOIL BORING LOCATIONS

EIC identified 10 locations soil borings and marked each location with a wooden stake. Prior to the soil boring program, EIC retained a professional land surveyor to obtain the vertical and horizontal coordinates of each location (EIC, 2013). North of AOC-2, eight soil boring locations were located in a grid pattern. Four soil borings (WH3 S1, WH3 S2, WH3 S3 and WH3 S4) were plotted 20 feet from and perpendicular to the north edge of the pavement of the WH3 parking lot. Four additional soil borings (WH3 N1, WH3 N2, WH3 N3 and WH3 N4) were plotted 20 feet farther away from the parking lot from the previous four borings. Since the pavement of a former driveway still exists northwest of the northeast corner of Warehouse 3 (WH3), the locations of the soil borings across this paved area are spaced further apart than in the rest of the borings. Within the grassy island between the Rock Salt Warehouse (RSW) parking lot and main driveway, two more soil borings (RSW Island S and RSW Island N) were plotted at each end of the island between a ditch and the driveway.

2.3 UTILITY CLEARANCE

Prior to mobilizing to the terminal, EIC contacted the terminal manager Ken Slater to inquire if any buried utilities were located in the vicinity of the proposed soil borings. Mr. Slater informed EIC that the only buried utility in the area was a water pipeline and it was not near the areas of the proposed soil borings.

2.4 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, 2011).

At each boring location, EIC utilized a direct-push (Geoprobe) equipment to advance a 5-foot long "2-inch Micro-bore" core sampler equipped with a thin-walled acetate lining. The core sampler collected a continuous 5-foot soil core beginning at the ground surface. At each boring location, the surficial grass layer was first scraped off to expose bare soil. The driller then advanced the core sampler to a depth of 5 feet below grade. Each core was primarily advanced hydraulically by direct-push without rotation. Use of a hydraulic hammer available on the Geoprobe was used periodically only when it became necessary to penetrate through more resistance (typically within the first two feet), such as that caused by rocks or clay, as a precaution considering the possibility that an unknown utility could be present. No refusal was encountered in any of the 10 boring locations. Each core sample was retrieved and laid out onto a sheet plastic lined work surface. The acetate liner of each core sample was successively cut open, the soil characterized by EIC's field geologist, and a homogenized soil sample collected from two intervals of the soil core sample. The first interval was from a depth of from zero to two (0-2) feet and the second interval was from a depth of from three to five (3-5) feet. These intervals were consistent with the previous sampling intervals in the AOC-2 area.

The homogenization was completed in accordance with EPD's guidance document SESDPROC-300-R2. Soil from each 2-foot core interval was placed into a decontaminated stainless steel homogenization bowl and thoroughly mixed. The soil samples were thoroughly mixed to ensure that each sample was as representative as possible of the sample media. EIC then utilized the quartering procedure as follows: The material in the sampling bowl was divided into quarters and each quarter was mixed individually. These two quarters were then mixed to form halves. The two halves were then mixed to form a homogenous matrix. This procedure was then repeated several times until the sample was adequately mixed. The mixing was achieved by stirring the material in a circular fashion, reversing direction, and occasionally turning the material over. Each homogenized sample was then placed into a four-ounce, labeled glass jar using the alternate shoveling method and the jar cap secured tightly. The alternate shoveling method involved placing a spoonful of soil in each container in sequence and repeating until each of the containers were full. Threads on the containers and lids were cleaned to ensure a tight seal when closed. Each aliquot of the composite was of the same approximate volume.

All excess soil was containerized and sealed in a DOT-rated steel 55-gallon drum and a non-hazardous label placed on the drum listing the accumulation date and investigation derived waste (IDW) contents as soil - pending further classification based on results. The drum was staged at the southern corner of the RSW parking lot. Used acetate sleeves were disposed of by the drilling contractor. Per SESDPROC-300-R2, after each soil boring was completed, each bore hole was abandoned by filling with a 30% solids bentonite grout to ground surface.

2.5 SAMPLE ANALYSIS

On June 10, 2013, EIC collected 20 soil samples from each of the 10 soil boring locations indicated in Figure 1, following the sampling protocol in Section 2.4. 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-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 A.

2.5.1 Sequential Batch Analysis

Although two samples were collected from each of 10 soil borings, EIC was uncertain if all soil samples taken within the grid required analysis. Based on pre-VIRP sampling, EIC instructed the laboratory to first analyze a batch of samples from borings that were adjacent to borings that previously indicated presence of COCs above delineation and RRS standards. After the laboratory reported the results on the first batch, EIC authorized the laboratory to analyze a second batch from the remainder of the samples. As such, two samples namely WH3-N4 and RSW-Island-N were not analyzed.

3.0 DATA EVALUATION

EIC conducted an evaluation of the data compiled from field sampling and laboratory analysis to further define the horizontal extent of COCs in the shallow subsurface. The following sections outline the results EIC's evaluation.

Figure 1 illustrates the boring locations from both the pre-VIRP assessment and the current assessment program. In addition, the figure identifies two soil boring locations from the adjacent AOC-3 area that were assessed during the pre-VIRP assessment program. The figure also defines the approximate limits of the foot-print for the former bulk storage pad that was used for storing a single batch of benzenehexachloride (BHC) several decades ago (EIC, 2012).

Table 1 is a tabulation of the soil sampling results for the primary COC comprised of BHC isomers and other pesticides. Figure 1 displays a summary of the BHC isomers for each boring location. Those values that exceed the delineation criteria and RRS are shown in blue and red colors, respectively.

Referring to Figure 1, it is clear that the horizontal extent of the soil contamination is fully defined to the north of AOC-2 and within the RSW island located to the west of AOC-3. The vertical extent of the COCs were also delineated at each of the soil borings from which EIC conducted sample analysis except for one location within the RSW island. At the RSW island, the delta BHC value was slightly above delineation standards but below RRS in the sample collected from the 3 to 5 feet depth. Since management of contaminated soils was the selected remedy, GPA does not plan to collect additional samples at depth.

4.0 CONCLUSIONS

EIC successfully completed the horizontal delineation of COCs in the AOC-2 area. Based on the results, GPA will extend the boundaries for engineering and institutional controls in AOC-2 for management of contaminated soils.

5.0 REFERENCES

Environmental International Corporation (EIC), 2012. "*VIRP Application, BHC Remediation*", Bainbridge, Georgia, July 2012.

EIC, 2013. *"June 2013 Land Survey Report, GPA Bainbridge Terminal, Bainbridge, Georgia"* Bainbridge, Georgia, October 2013.

Ms. Natalie Dawn
Georgia Ports Authority

EPD, 2012. *Letter from GA EPD to GPA, "Voluntary Investigation and Remediation Plan (VIRP) and Application, July 25, 2012, Comment Letter, Georgia Ports Authority – Bainbridge Terminal, Hazardous Site Inventory Number 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19".* November 2, 2012.

U. S. Environmental Protection Agency (EPA), 2011. *Soil Sampling, Operating Procedure, Number SESDPROC-300-R2, Region 4, U.S. Environmental Protection Agency, Science and Ecosystem Support Division, Athens, Georgia.* December 20, 2011.

We appreciate the opportunity to have served you on your project needs. If you have any questions, please call or e-mail me.

Sincerely,
ENVIRONMENTAL INTERNATIONAL CORPORATION

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

Cc: Alan Sanders, EIC

TABLES

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

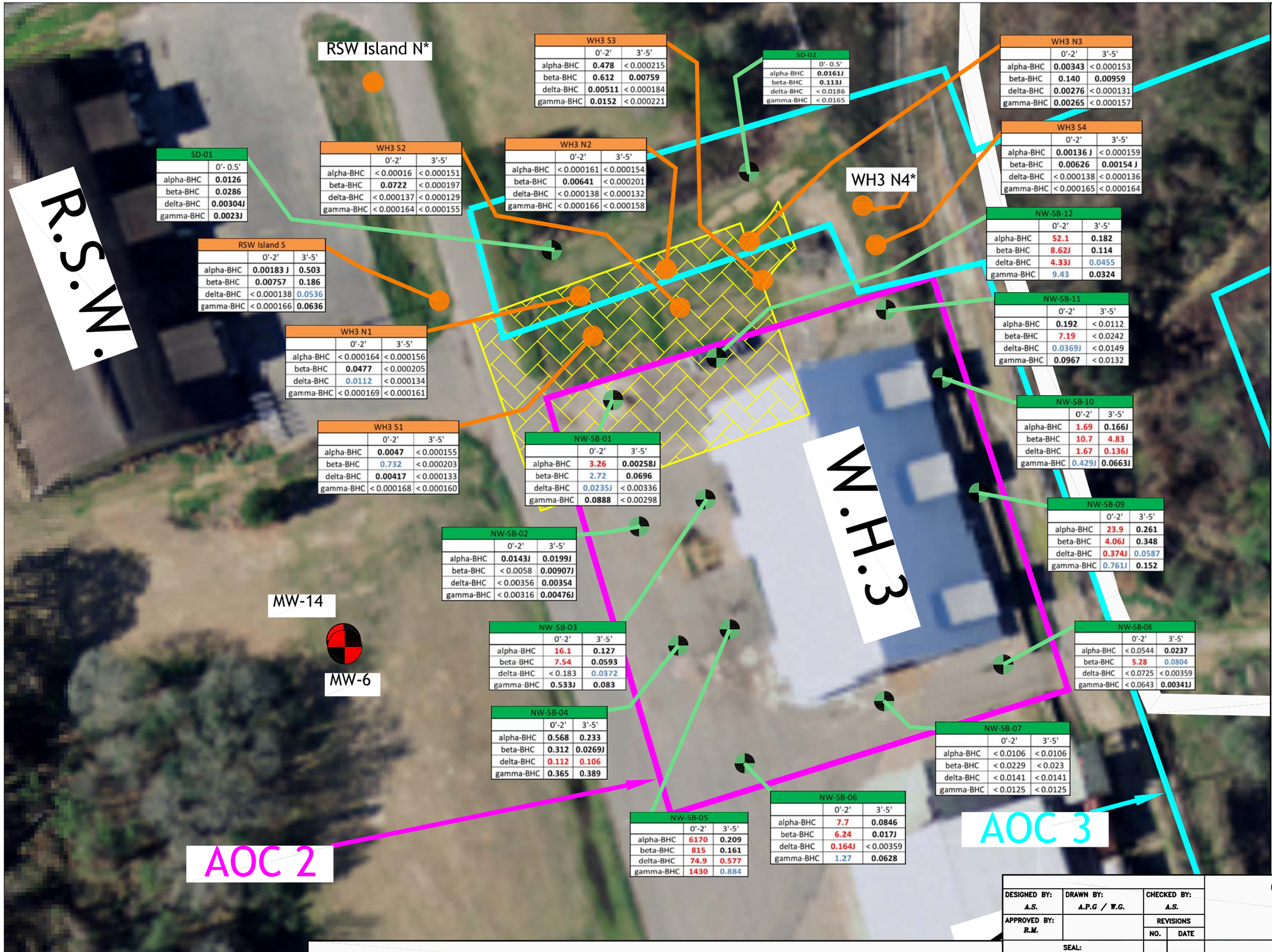
SW-846 8081B			alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	Heptachlor	Aldrin	Heptachlor epoxide	Endosulfan I	Dieldrin	4,4'-DDE	Endrin	Endosulfan II	4,4'-DDD	Endosulfan sulfate	4,4'-DDT	Methoxychlor	Endrin aldehyde	gamma-Chlordane	alpha-Chlordane	Endrin ketone	Toxaphene
Unit			mg/kg	mg/kg	mg/kg	mg/kg	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 (mg/kg)			0.66	0.66	0.01	0.66		0.66				0.66			0.66		0.66						
Well ID	**Depth (ft)**	**Sample Date**																					
RSW Island S	0-2	6/10/13 10:24	**0.00183 J**	**0.00757**	0.000138 U	0.000166 U	0.000161 U	0.000216 U	0.000156 U	0.000156 U	0.000261 U	0.000299 U	0.000235 U	0.000272 U	0.000249 U	0.000282 U	0.00512	0.00131 U	0.000315 U	0.000158 U	0.000169 U	0.000238 U	0.0308 U
	3-5	6/10/13 10:39	**0.503 D**	**0.186 D**	0.0536 D	**0.0636 D**	0.000172 U	0.000232 U	0.000168 U	0.000167 U	0.000280 U	0.000321 U	0.000253 U	0.000292 U	0.000267 U	0.000303 U	0.000383 U	0.00141 U	0.000338 U	0.000169 U	0.000181 U	0.000255 U	0.0331 U
WH3-S-1	0-2	6/10/13 15:38	**0.00470**	0.732 D	**0.00417**	0.000168 U	0.000162 U	0.000218 U	0.000158 U	0.000157 U	0.000264 U	0.000302 U	0.000238 U	0.000275 U	**0.00529**	0.000285 U	**0.00609**	0.00132 U	0.000318 U	0.000159 U	0.000170 U	0.000241 U	0.0312 U
	3-5	6/10/13 15:51	0.000155 U	0.000203 U	0.000133 U	0.000160 U	0.000155 U	0.000208 U	0.000151 U	0.000150 U	0.000252 U	0.000288 U	0.000227 U	0.000262 U	0.000240 U	0.000272 U	0.000344 U	0.00126 U	0.000304 U	0.000152 U	0.000163 U	0.000230 U	0.0297 U
WH3-S-2	0-2	6/10/13 14:02	0.000160 U	**0.0722 D**	0.000137 U	0.000164 U	0.000159 U	0.000214 U	0.000155 U	0.000154 U	0.000258 U	0.000296 U	0.000233 U	0.000269 U	0.000247 U	0.000279 U	0.000353 U	0.00130 U	0.000312 U	0.000156 U	0.000167 U	0.000236 U	0.0305 U
	3-5	6/10/13 14:18	0.000151 U	0.000197 U	0.000129 U	0.000155 U	0.00015 U	0.000202 U	0.000146 U	0.000145 U	0.000244 U	0.000280 U	0.000220 U	0.000254 U	0.000233 U	0.000264 U	0.000334 U	0.00123 U	0.000295 U	0.000148 U	0.000158 U	0.000223 U	0.0288 U
WH3-S-3	0-2	6/10/13 12:20	**0.478 D**	**0.612 D**	**0.00511**	**0.0152**	0.000165 U	0.000222 U	0.000160 U	0.000160 U	0.000268 U	0.000307 U	0.000241 U	0.000279 U	0.000256 U	0.000290 U	0.000366 U	0.00134 U	0.000323 U	0.000162 U	0.000173 U	0.000244 U	0.0316 U
	3-5	6/10/13 12:55	0.000215 U	**0.00759**	0.000184 U	0.000221 U	0.000215 U	0.000289 U	0.000209 U	0.000208 U	0.000348 U	0.000399 U	0.000314 U	0.000363 U	0.000333 U	0.000377 U	0.000477 U	0.00175 U	0.000421 U	0.000211 U	0.000225 U	0.000318 U	0.0412 U
WH3-S-4	0-2	6/10/13 11:02	**0.00136 J**	**0.00626**	0.000138 U	0.000165 U	0.000160 U	0.000216 U	0.000156 U	0.000155 U	0.000260 U	0.000298 U	0.000235 U	0.000271 U	0.000249 U	0.000281 U	0.000356 U	0.00131 U	0.000314 U	0.000157 U	0.000168 U	0.000237 U	0.0308 U
	3-5	6/10/13 11:11	0.000159 U	**0.00154 J**	0.000136 U	0.000164 U	0.000158 U	0.000213 U	0.000154 U	0.000153 U	0.000257 U	0.000295 U	0.000232 U	0.000268 U	0.000246 U	0.000278 U	0.000352 U	0.00129 U	0.000311 U	0.000156 U	0.000166 U	0.000235 U	0.0304 U
RSW Island N	0-2	6/10/13 9:38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3-5	6/10/13 9:52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH3-N-1	0-2	6/10/13 16:15	0.000164 U	**0.0477 D**	0.0112	0.000169 U	0.000164 U	0.00022 U	0.000159 U	0.000158 U	0.000266 U	0.000304 U	0.00024 U	0.000277 U	0.000254 U	0.000287 U	0.000363 U	0.00133 U	0.000321 U	0.000161 U	0.000172 U	0.000242 U	0.0314 U
	3-5	6/10/13 16:20	0.000156 U	0.000205 U	0.000134 U	0.000161 U	0.000156 U	0.00021 U	0.000152 U	0.000151 U	0.000253 U	0.00029 U	0.000228 U	0.000264 U	0.000242 U	0.000274 U	0.000347 U	0.00127 U	0.000306 U	0.000153 U	0.000164 U	0.000231 U	0.0299 U
WH3-N-2	0-2	6/10/13 14:40	0.000161 U	**0.00641**	0.000138 U	0.000166 U	0.000161 U	0.000216 U	0.000157 U	0.000156 U	0.000261 U	0.000299 U	0.000236 U	0.000272 U	0.00025 U	0.000283 U	0.000358 U	0.00131 U	0.000315 U	0.000158 U	0.000169 U	0.000238 U	0.0309 U
	3-5	6/10/13 14:47	0.000154 U	0.000201 U	0.000132 U	0.000158 U	0.000153 U	0.000206 U	0.000149 U	0.000148 U	0.000249 U	0.000285 U	0.000225 U	0.00026 U	0.000238 U	0.000269 U	0.000341 U	0.00125 U	0.000301 U	0.000151 U	0.000161 U	0.000227 U	0.0294 U
WH3-N-3	0-2	6/10/13 13:19	**0.00343**	**0.140 D**	**0.00276**	**0.00265**	0.000157 U	0.000212 U	0.000153 U	0.000152 U	0.000256 U	**0.00185 J**	0.000231 U	0.000267 U	0.000244 U	0.000277 U	**0.00536**	0.00128 U	0.000309 U	0.000155 U	0.000165 U	0.000233 U	0.0302 U
	3-5	6/10/13 13:32	0.000153 U	**0.00959**	0.000131 U	0.000157 U	0.000152 U	0.000205 U	0.000148 U	0.000147 U	0.000247 U	0.000283 U	0.000223 U	0.000258 U	0.000236 U	0.000267 U	0.000338 U	0.00124 U	0.000298 U	0.000149 U	0.00016 U	0.000225 U	0.0292 U
WH3-N-4	0-2	6/10/13 11:45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3-5	6/10/13 11:58	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

RRS = Risk Reduction Standard.
mg/kg = Milligrams per kilogram
NA = Not Applicable.
1.60 = Results exceed delineation criteria
0.00512 = Results above detection limit

NA = sample not analyzed
J = Target analyte concentration was positively identified below the quantization limit and above the detection limit.
E = Data exceeds the upper calibration limit; therefore, the concentration is reported as estimated
U = Analyte was not detected.
D = Diluted

FIGURES



WH3 S3	0'-2'	3'-5'
alpha-BHC	**0.478**	< 0.000215
beta-BHC	**0.612**	**0.00759**
delta-BHC	**0.00511**	< 0.000184
gamma-BHC	**0.0152**	< 0.000221

SD-02	0'- 0.5'
alpha-BHC	**0.0161J**
beta-BHC	**0.113J**
delta-BHC	< 0.0186
gamma-BHC	< 0.0165

WH3 N3	0'-2'	3'-5'
alpha-BHC	**0.00343**	< 0.000153
beta-BHC	**0.140**	**0.00959**
delta-BHC	**0.00276**	< 0.000131
gamma-BHC	**0.00265**	< 0.000157

SD-01	0'- 0.5'
alpha-BHC	**0.0126**
beta-BHC	**0.0286**
delta-BHC	**0.00304J**
gamma-BHC	**0.0023J**

WH3 S2	0'-2'	3'-5'
alpha-BHC	< 0.00016	< 0.000151
beta-BHC	**0.0722**	< 0.000197
delta-BHC	< 0.000137	< 0.000129
gamma-BHC	< 0.000164	< 0.000155

WH3 N2	0'-2'	3'-5'
alpha-BHC	< 0.000161	< 0.000154
beta-BHC	**0.00641**	< 0.000201
delta-BHC	< 0.000138	< 0.000132
gamma-BHC	< 0.000166	< 0.000158

WH3 S4	0'-2'	3'-5'
alpha-BHC	**0.00136 J**	< 0.000159
beta-BHC	**0.00626**	**0.00154 J**
delta-BHC	< 0.000138	< 0.000136
gamma-BHC	< 0.000165	< 0.000164

NW-SB-12	0'-2'	3'-5'
alpha-BHC	**52.1**	**0.182**
beta-BHC	**8.62J**	**0.114**
delta-BHC	**4.33J**	0.0455
gamma-BHC	9.43	**0.0324**

RSW Island S	0'-2'	3'-5'
alpha-BHC	**0.00183 J**	**0.503**
beta-BHC	**0.00757**	**0.186**
delta-BHC	< 0.000138	0.0536
gamma-BHC	< 0.000166	**0.0636**

NW-SB-11	0'-2'	3'-5'
alpha-BHC	**0.192**	< 0.0112
beta-BHC	**7.19**	< 0.0242
delta-BHC	0.0369J	< 0.0149
gamma-BHC	**0.0967**	< 0.0132

WH3 N1	0'-2'	3'-5'
alpha-BHC	< 0.000164	< 0.000156
beta-BHC	**0.0477**	< 0.000205
delta-BHC	0.0112	< 0.000134
gamma-BHC	< 0.000169	< 0.000161

NW-SB-10	0'-2'	3'-5'
alpha-BHC	**1.69**	**0.166J**
beta-BHC	**10.7**	**4.83**
delta-BHC	**1.67**	**0.136J**
gamma-BHC	0.429J	**0.0663J**

WH3 S1	0'-2'	3'-5'
alpha-BHC	**0.0047**	< 0.000155
beta-BHC	0.732	< 0.000203
delta-BHC	**0.00417**	< 0.000133
gamma-BHC	< 0.000168	< 0.000160

NW-SB-01	0'-2'	3'-5'
alpha-BHC	**3.26**	**0.00258J**
beta-BHC	2.72	**0.0696**
delta-BHC	0.0235J	< 0.00336
gamma-BHC	**0.0888**	< 0.00298

NW-SB-09	0'-2'	3'-5'
alpha-BHC	**23.9**	**0.261**
beta-BHC	**4.06J**	**0.348**
delta-BHC	**0.374J**	0.0587
gamma-BHC	0.761J	**0.152**

NW-SB-02	0'-2'	3'-5'
alpha-BHC	**0.0143J**	**0.0199J**
beta-BHC	< 0.0058	**0.00907J**
delta-BHC	< 0.00356	**0.00354**
gamma-BHC	< 0.00316	**0.00476J**

NW-SB-03	0'-2'	3'-5'
alpha-BHC	**16.1**	**0.127**
beta-BHC	**7.54**	**0.0593**
delta-BHC	< 0.183	0.0372
gamma-BHC	**0.533J**	**0.083**

NW-SB-08	0'-2'	3'-5'
alpha-BHC	< 0.0544	**0.0237**
beta-BHC	**5.28**	0.0804
delta-BHC	< 0.0725	< 0.00359
gamma-BHC	< 0.0643	**0.00341J**

NW-SB-04	0'-2'	3'-5'
alpha-BHC	**0.568**	**0.233**
beta-BHC	**0.312**	**0.0269J**
delta-BHC	**0.112**	**0.106**
gamma-BHC	**0.365**	**0.389**

NW-SB-07	0'-2'	3'-5'
alpha-BHC	< 0.0106	< 0.0106
beta-BHC	< 0.0229	< 0.023
delta-BHC	< 0.0141	< 0.0141
gamma-BHC	< 0.0125	< 0.0125

NW-SB-05	0'-2'	3'-5'
alpha-BHC	**6170**	**0.209**
beta-BHC	**815**	**0.161**
delta-BHC	**74.9**	**0.577**
gamma-BHC	**1430**	0.884

NW-SB-06	0'-2'	3'-5'
alpha-BHC	**7.7**	**0.0846**
beta-BHC	**6.24**	**0.017J**
delta-BHC	**0.164J**	< 0.00359
gamma-BHC	1.27	**0.0628**

LEGEND:

- Pre–VIRP Soil Sample Locations
- Post–VIRP Soil Sample Locations
- MW–6 MONITORING WELL
- GPA PROPERTY LINE
- R.S.W. ROCK SALT WAREHOUSE
- W.H.3 WAREHOUSE 3
- FORMER BULK STORAGE PAD
- * SAMPLES NOT ANALYZED
- 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. Post–VIRP sample locations based on survey conducted by Donaldson Garret & Associates on 6/5/2013

N

20 0 20 40 60

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 1: LOCATION OF SOIL BORINGS AND SOIL SAMPLE RESULTS

DESIGNED BY:	DRAWN BY:	CHECKED BY:
A.S.	A.P.G / W.G.	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	10/24/2013	400007-4.2 – GPA BAINBRIDGE	

ATTACHMENT A

Analytical Report 464860

for

Environmental International Corporation

Project Manager: Alan Sanders

GPA Bainbridge, GA

400007

27-JUN-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 (T104704215-10-6-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)

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Summary of Quality control	22
Chain of Custody	26
Sample Receipt Conformance Report	28

27-JUN-13

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

Reference: XENCO Report No(s): **464860**
GPA Bainbridge, GA
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) 464860. 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. 464860 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,

Dijana Piljak

Dijana Piljak
Project Manager

Sample Cross Reference 464860

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
RSW Island S 0'-2'	S	06-10-13 10:24		464860-001
RSW Island 3'-5'	S	06-10-13 10:39		464860-002
WH3-S-1 0'-2'	S	06-10-13 15:38		464860-003
WH3-S-1 3'-5'	S	06-10-13 15:51		464860-004
WH3-S-2 0'-2'	S	06-10-13 14:02		464860-005
WH3-S-2 3'-5'	S	06-10-13 14:18		464860-006
WH3-S-3 0'-2'	S	06-10-13 12:20		464860-007
WH3-S-3 3'-5'	S	06-10-13 12:55		464860-008
WH3-S-4 0'-2'	S	06-10-13 11:02		464860-009
WH3-S-4 3'-5'	S	06-10-13 11:11		464860-010
WH3-N-1 0'-2'	S	06-10-13 16:15		464860-013
WH3-N-1 3'-5'	S	06-10-13 16:20		464860-014
WH3-N-2 0'-2'	S	06-10-13 14:40		464860-015
WH3-N-2 3'-5'	S	06-10-13 14:47		464860-016
WH3-N-3 0'-2'	S	06-10-13 13:19		464860-017
WH3-N-3 3'-5'	S	06-10-13 13:32		464860-018
RSW Island N 0'-2'	S	06-10-13 09:38		Not Analyzed
RSW Island N 3'-5'	S	06-10-13 09:52		Not Analyzed
WH3-N-4 0'-2'	S	06-10-13 11:45		Not Analyzed
WH3-N-4 3'-5'	S	06-10-13 11:58		Not Analyzed

Certificate of Analytical Results 464860

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **RSW Island S 0'-2'** Matrix: Soil Date Received:06.11.13 13.02

Lab Sample Id: 464860-001 Date Collected: 06.10.13 10.24

Analytical Method: Pesticides by SW-846 8081B Prep Method: SW3550/3660B

Tech: BRO % Moisture: 9.84

Analyst: NTR Date Prep: 06.13.13 14.30 Basis: Dry Weight

Seq Number: 916375

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.00368	0.000249	mg/kg	06.14.13 20.23	U	1
4,4-DDE	72-55-9	U	0.00368	0.000299	mg/kg	06.14.13 20.23	U	1
4,4-DDT	50-29-3	**0.00512**	0.00368	0.000357	mg/kg	06.14.13 20.23		1
Aldrin	309-00-2	U	0.00184	0.000216	mg/kg	06.14.13 20.23	U	1
Alpha-BHC	319-84-6	**0.00183**	0.00184	0.000161	mg/kg	06.14.13 20.23	J	1
Alpha-Chlordane	5103-71-9	U	0.00184	0.000169	mg/kg	06.14.13 20.23	U	1
Beta-BHC	319-85-7	**0.00757**	0.00184	0.000211	mg/kg	06.14.13 20.23		1
Chlordane	12789-03-6	U	0.0184	0.00402	mg/kg	06.14.13 20.23	U	1
Delta-BHC	319-86-8	U	0.00184	0.000138	mg/kg	06.14.13 20.23	U	1
Dieldrin	60-57-1	U	0.00368	0.000261	mg/kg	06.14.13 20.23	U	1
Endosulfan I	959-98-8	U	0.00184	0.000156	mg/kg	06.14.13 20.23	U	1
Endosulfan II	33213-65-9	U	0.00368	0.000272	mg/kg	06.14.13 20.23	U	1
Endosulfan Sulfate	1031-07-8	U	0.00368	0.000282	mg/kg	06.14.13 20.23	U	1
Endrin	72-20-8	U	0.00368	0.000235	mg/kg	06.14.13 20.23	U	1
Endrin Aldehyde	7421-93-4	U	0.00368	0.000315	mg/kg	06.14.13 20.23	U	1
Endrin Ketone	53494-70-5	U	0.00368	0.000238	mg/kg	06.14.13 20.23	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.00184	0.000166	mg/kg	06.14.13 20.23	U	1
Gamma-Chlordane	5103-74-2	U	0.00184	0.000158	mg/kg	06.14.13 20.23	U	1
Heptachlor	76-44-8	U	0.00184	0.000161	mg/kg	06.14.13 20.23	U	1
Heptachlor Epoxide	1024-57-3	U	0.00184	0.000156	mg/kg	06.14.13 20.23	U	1
Methoxychlor	72-43-5	U	0.0184	0.00131	mg/kg	06.14.13 20.23	U	1
Toxaphene	8001-35-2	U	0.0736	0.0308	mg/kg	06.14.13 20.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Decachlorobiphenyl	2051-24-3	102	%	32-145	06.14.13 20.23	
Tetrachloro-m-xylene	877-09-8	93	%	11-114	06.14.13 20.23	

Certificate of Analytical Results 464860

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **RSW Island 3'-5'** Matrix: Soil Date Received:06.11.13 13.02

Lab Sample Id: 464860-002 Date Collected: 06.10.13 10.39

Analytical Method: Pesticides by SW-846 8081B Prep Method: SW3550/3660B

Tech: BRO % Moisture: 16.05

Analyst: NTR Date Prep: 06.13.13 14.30 Basis: Dry Weight

Seq Number: 916375

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.00395	0.000267	mg/kg	06.14.13 20.41	U	1
4,4-DDE	72-55-9	U	0.00395	0.000321	mg/kg	06.14.13 20.41	U	1
4,4-DDT	50-29-3	U	0.00395	0.000383	mg/kg	06.14.13 20.41	U	1
Aldrin	309-00-2	U	0.00197	0.000232	mg/kg	06.14.13 20.41	U	1
Alpha-BHC	319-84-6	**0.503**	0.0987	0.00865	mg/kg	06.18.13 00.25	D	50
Alpha-Chlordane	5103-71-9	U	0.00197	0.000181	mg/kg	06.14.13 20.41	U	1
Beta-BHC	319-85-7	**0.186**	0.0197	0.00226	mg/kg	06.18.13 00.07	D	10
Chlordane	12789-03-6	U	0.0197	0.00431	mg/kg	06.14.13 20.41	U	1
Delta-BHC	319-86-8	**0.0536**	0.0197	0.00148	mg/kg	06.18.13 00.07	D	10
Dieldrin	60-57-1	U	0.00395	0.000280	mg/kg	06.14.13 20.41	U	1
Endosulfan I	959-98-8	U	0.00197	0.000167	mg/kg	06.14.13 20.41	U	1
Endosulfan II	33213-65-9	U	0.00395	0.000292	mg/kg	06.14.13 20.41	U	1
Endosulfan Sulfate	1031-07-8	U	0.00395	0.000303	mg/kg	06.14.13 20.41	U	1
Endrin	72-20-8	U	0.00395	0.000253	mg/kg	06.14.13 20.41	U	1
Endrin Aldehyde	7421-93-4	U	0.00395	0.000338	mg/kg	06.14.13 20.41	U	1
Endrin Ketone	53494-70-5	U	0.00395	0.000255	mg/kg	06.14.13 20.41	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0636**	0.0197	0.00178	mg/kg	06.18.13 00.07	D	10
Gamma-Chlordane	5103-74-2	U	0.00197	0.000169	mg/kg	06.14.13 20.41	U	1
Heptachlor	76-44-8	U	0.00197	0.000172	mg/kg	06.14.13 20.41	U	1
Heptachlor Epoxide	1024-57-3	U	0.00197	0.000168	mg/kg	06.14.13 20.41	U	1
Methoxychlor	72-43-5	U	0.0197	0.00141	mg/kg	06.14.13 20.41	U	1
Toxaphene	8001-35-2	U	0.0790	0.0331	mg/kg	06.14.13 20.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Decachlorobiphenyl	2051-24-3	96	%	32-145	06.14.13 20.41	
Tetrachloro-m-xylene	877-09-8	72	%	11-114	06.14.13 20.41	

Certificate of Analytical Results 464860

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id:	**WH3-S-1 0'-2'**	Matrix:	Soil	Date Received:	06.11.13 13.02
Lab Sample Id:	464860-003	Date Collected:	06.10.13 15.38		
Analytical Method:	Pesticides by SW-846 8081B			Prep Method:	SW3550/3660B
Tech:	BRO			% Moisture:	10.69
Analyst:	NTR	Date Prep:	06.13.13 14.30	Basis:	Dry Weight
Seq Number:	916375				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	**0.00529**	0.00372	0.000252	mg/kg	06.14.13 20.58		1
4,4-DDE	72-55-9	U	0.00372	0.000302	mg/kg	06.14.13 20.58	U	1
4,4-DDT	50-29-3	**0.00609**	0.00372	0.000361	mg/kg	06.14.13 20.58		1
Aldrin	309-00-2	U	0.00186	0.000218	mg/kg	06.14.13 20.58	U	1
Alpha-BHC	319-84-6	**0.00470**	0.00186	0.000163	mg/kg	06.14.13 20.58		1
Alpha-Chlordane	5103-71-9	U	0.00186	0.000170	mg/kg	06.14.13 20.58	U	1
Beta-BHC	319-85-7	**0.732**	0.186	0.0213	mg/kg	06.18.13 00.42	D	100
Chlordane	12789-03-6	U	0.0186	0.00406	mg/kg	06.14.13 20.58	U	1
Delta-BHC	319-86-8	**0.00417**	0.00186	0.000139	mg/kg	06.14.13 20.58		1
Dieldrin	60-57-1	U	0.00372	0.000264	mg/kg	06.14.13 20.58	U	1
Endosulfan I	959-98-8	U	0.00186	0.000157	mg/kg	06.14.13 20.58	U	1
Endosulfan II	33213-65-9	U	0.00372	0.000275	mg/kg	06.14.13 20.58	U	1
Endosulfan Sulfate	1031-07-8	U	0.00372	0.000285	mg/kg	06.14.13 20.58	U	1
Endrin	72-20-8	U	0.00372	0.000238	mg/kg	06.14.13 20.58	U	1
Endrin Aldehyde	7421-93-4	U	0.00372	0.000318	mg/kg	06.14.13 20.58	U	1
Endrin Ketone	53494-70-5	U	0.00372	0.000241	mg/kg	06.14.13 20.58	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.00186	0.000168	mg/kg	06.14.13 20.58	U	1
Gamma-Chlordane	5103-74-2	U	0.00186	0.000159	mg/kg	06.14.13 20.58	U	1
Heptachlor	76-44-8	U	0.00186	0.000162	mg/kg	06.14.13 20.58	U	1
Heptachlor Epoxide	1024-57-3	U	0.00186	0.000158	mg/kg	06.14.13 20.58	U	1
Methoxychlor	72-43-5	U	0.0186	0.00132	mg/kg	06.14.13 20.58	U	1
Toxaphene	8001-35-2	U	0.0744	0.0312	mg/kg	06.14.13 20.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Decachlorobiphenyl	2051-24-3	100	%	32-145	06.14.13 20.58	
Tetrachloro-m-xylene	877-09-8	97	%	11-114	06.14.13 20.58	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **WH3-S-1 3'-5'** Matrix: Soil Date Received:06.11.13 13.02

Lab Sample Id: 464860-004 Date Collected: 06.10.13 15.51

Analytical Method: Pesticides by SW-846 8081B Prep Method: SW3550/3660B

Tech: BRO % Moisture: 6.39

Analyst: NTR Date Prep: 06.13.13 14.30 Basis: Dry Weight

Seq Number: 916375

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8		U	0.00355	0.000240	mg/kg	06.14.13 21.16	U	1
4,4-DDE	72-55-9		U	0.00355	0.000288	mg/kg	06.14.13 21.16	U	1
4,4-DDT	50-29-3		U	0.00355	0.000344	mg/kg	06.14.13 21.16	U	1
Aldrin	309-00-2		U	0.00178	0.000208	mg/kg	06.14.13 21.16	U	1
Alpha-BHC	319-84-6		U	0.00178	0.000155	mg/kg	06.14.13 21.16	U	1
Alpha-Chlordane	5103-71-9		U	0.00178	0.000163	mg/kg	06.14.13 21.16	U	1
Beta-BHC	319-85-7		U	0.00178	0.000203	mg/kg	06.14.13 21.16	U	1
Chlordane	12789-03-6		U	0.0178	0.00388	mg/kg	06.14.13 21.16	U	1
Delta-BHC	319-86-8		U	0.00178	0.000133	mg/kg	06.14.13 21.16	U	1
Dieldrin	60-57-1		U	0.00355	0.000252	mg/kg	06.14.13 21.16	U	1
Endosulfan I	959-98-8		U	0.00178	0.000150	mg/kg	06.14.13 21.16	U	1
Endosulfan II	33213-65-9		U	0.00355	0.000262	mg/kg	06.14.13 21.16	U	1
Endosulfan Sulfate	1031-07-8		U	0.00355	0.000272	mg/kg	06.14.13 21.16	U	1
Endrin	72-20-8		U	0.00355	0.000227	mg/kg	06.14.13 21.16	U	1
Endrin Aldehyde	7421-93-4		U	0.00355	0.000304	mg/kg	06.14.13 21.16	U	1
Endrin Ketone	53494-70-5		U	0.00355	0.000230	mg/kg	06.14.13 21.16	U	1
Gamma-BHC (Lindane)	58-89-9		U	0.00178	0.000160	mg/kg	06.14.13 21.16	U	1
Gamma-Chlordane	5103-74-2		U	0.00178	0.000152	mg/kg	06.14.13 21.16	U	1
Heptachlor	76-44-8		U	0.00178	0.000155	mg/kg	06.14.13 21.16	U	1
Heptachlor Epoxide	1024-57-3		U	0.00178	0.000151	mg/kg	06.14.13 21.16	U	1
Methoxychlor	72-43-5		U	0.0178	0.00126	mg/kg	06.14.13 21.16	U	1
Toxaphene	8001-35-2		U	0.0710	0.0297	mg/kg	06.14.13 21.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Decachlorobiphenyl	2051-24-3	98	%	32-145	06.14.13 21.16	
Tetrachloro-m-xylene	877-09-8	81	%	11-114	06.14.13 21.16	

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Environmental International Corporation, Alpharetta, GA

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Sample Id: **WH3-S-2 0'-2'** Matrix: Soil Date Received:06.11.13 13.02

Lab Sample Id: 464860-005 Date Collected: 06.10.13 14.02

Analytical Method: Pesticides by SW-846 8081B Prep Method: SW3550/3660B

Tech: BRO % Moisture: 8.86

Analyst: NTR Date Prep: 06.13.13 14.30 Basis: Dry Weight

Seq Number: 916375

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.00364	0.000247	mg/kg	06.14.13 21.34	U	1
4,4-DDE	72-55-9	U	0.00364	0.000296	mg/kg	06.14.13 21.34	U	1
4,4-DDT	50-29-3	U	0.00364	0.000353	mg/kg	06.14.13 21.34	U	1
Aldrin	309-00-2	U	0.00182	0.000214	mg/kg	06.14.13 21.34	U	1
Alpha-BHC	319-84-6	U	0.00182	0.000160	mg/kg	06.14.13 21.34	U	1
Alpha-Chlordane	5103-71-9	U	0.00182	0.000167	mg/kg	06.14.13 21.34	U	1
Beta-BHC	319-85-7	**0.0722**	0.0182	0.00209	mg/kg	06.18.13 01.00	D	10
Chlordane	12789-03-6	U	0.0182	0.00398	mg/kg	06.14.13 21.34	U	1
Delta-BHC	319-86-8	U	0.00182	0.000137	mg/kg	06.14.13 21.34	U	1
Dieldrin	60-57-1	U	0.00364	0.000258	mg/kg	06.14.13 21.34	U	1
Endosulfan I	959-98-8	U	0.00182	0.000154	mg/kg	06.14.13 21.34	U	1
Endosulfan II	33213-65-9	U	0.00364	0.000269	mg/kg	06.14.13 21.34	U	1
Endosulfan Sulfate	1031-07-8	U	0.00364	0.000279	mg/kg	06.14.13 21.34	U	1
Endrin	72-20-8	U	0.00364	0.000233	mg/kg	06.14.13 21.34	U	1
Endrin Aldehyde	7421-93-4	U	0.00364	0.000312	mg/kg	06.14.13 21.34	U	1
Endrin Ketone	53494-70-5	U	0.00364	0.000236	mg/kg	06.14.13 21.34	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.00182	0.000164	mg/kg	06.14.13 21.34	U	1
Gamma-Chlordane	5103-74-2	U	0.00182	0.000156	mg/kg	06.14.13 21.34	U	1
Heptachlor	76-44-8	U	0.00182	0.000159	mg/kg	06.14.13 21.34	U	1
Heptachlor Epoxide	1024-57-3	U	0.00182	0.000155	mg/kg	06.14.13 21.34	U	1
Methoxychlor	72-43-5	U	0.0182	0.00130	mg/kg	06.14.13 21.34	U	1
Toxaphene	8001-35-2	U	0.0729	0.0305	mg/kg	06.14.13 21.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Decachlorobiphenyl	2051-24-3	96	%	32-145	06.14.13 21.34	
Tetrachloro-m-xylene	877-09-8	90	%	11-114	06.14.13 21.34	

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Environmental International Corporation, Alpharetta, GA

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Sample Id: **WH3-S-2 3'-5'** Matrix: Soil Date Received:06.11.13 13.02

Lab Sample Id: 464860-006 Date Collected: 06.10.13 14.18

Analytical Method: Pesticides by SW-846 8081B Prep Method: SW3550/3660B

Tech: BRO % Moisture: 4.84

Analyst: NTR Date Prep: 06.13.13 14.30 Basis: Dry Weight

Seq Number: 916375

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.00344	0.000233	mg/kg	06.14.13 21.51	U	1
4,4-DDE	72-55-9	U	0.00344	0.000280	mg/kg	06.14.13 21.51	U	1
4,4-DDT	50-29-3	U	0.00344	0.000334	mg/kg	06.14.13 21.51	U	1
Aldrin	309-00-2	U	0.00172	0.000202	mg/kg	06.14.13 21.51	U	1
Alpha-BHC	319-84-6	U	0.00172	0.000151	mg/kg	06.14.13 21.51	U	1
Alpha-Chlordane	5103-71-9	U	0.00172	0.000158	mg/kg	06.14.13 21.51	U	1
Beta-BHC	319-85-7	U	0.00172	0.000197	mg/kg	06.14.13 21.51	U	1
Chlordane	12789-03-6	U	0.0172	0.00376	mg/kg	06.14.13 21.51	U	1
Delta-BHC	319-86-8	U	0.00172	0.000129	mg/kg	06.14.13 21.51	U	1
Dieldrin	60-57-1	U	0.00344	0.000244	mg/kg	06.14.13 21.51	U	1
Endosulfan I	959-98-8	U	0.00172	0.000145	mg/kg	06.14.13 21.51	U	1
Endosulfan II	33213-65-9	U	0.00344	0.000254	mg/kg	06.14.13 21.51	U	1
Endosulfan Sulfate	1031-07-8	U	0.00344	0.000264	mg/kg	06.14.13 21.51	U	1
Endrin	72-20-8	U	0.00344	0.000220	mg/kg	06.14.13 21.51	U	1
Endrin Aldehyde	7421-93-4	U	0.00344	0.000295	mg/kg	06.14.13 21.51	U	1
Endrin Ketone	53494-70-5	U	0.00344	0.000223	mg/kg	06.14.13 21.51	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.00172	0.000155	mg/kg	06.14.13 21.51	U	1
Gamma-Chlordane	5103-74-2	U	0.00172	0.000148	mg/kg	06.14.13 21.51	U	1
Heptachlor	76-44-8	U	0.00172	0.000150	mg/kg	06.14.13 21.51	U	1
Heptachlor Epoxide	1024-57-3	U	0.00172	0.000146	mg/kg	06.14.13 21.51	U	1
Methoxychlor	72-43-5	U	0.0172	0.00123	mg/kg	06.14.13 21.51	U	1
Toxaphene	8001-35-2	U	0.0688	0.0288	mg/kg	06.14.13 21.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Decachlorobiphenyl	2051-24-3	95	%	32-145	06.14.13 21.51	
Tetrachloro-m-xylene	877-09-8	93	%	11-114	06.14.13 21.51	

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Environmental International Corporation, Alpharetta, GA

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Sample Id: **WH3-S-3 0'-2'** Matrix: Soil Date Received:06.11.13 13.02

Lab Sample Id: 464860-007 Date Collected: 06.10.13 12.20

Analytical Method: Pesticides by SW-846 8081B Prep Method: SW3550/3660B

Tech: BRO % Moisture: 11.71

Analyst: NTR Date Prep: 06.13.13 14.30 Basis: Dry Weight

Seq Number: 916375

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.00378	0.000256	mg/kg	06.14.13 22.09	U	1
4,4-DDE	72-55-9	U	0.00378	0.000307	mg/kg	06.14.13 22.09	U	1
4,4-DDT	50-29-3	U	0.00378	0.000366	mg/kg	06.14.13 22.09	U	1
Aldrin	309-00-2	U	0.00189	0.000222	mg/kg	06.14.13 22.09	U	1
Alpha-BHC	319-84-6	**0.478**	0.189	0.0165	mg/kg	06.18.13 01.17	D	100
Alpha-Chlordane	5103-71-9	U	0.00189	0.000173	mg/kg	06.14.13 22.09	U	1
Beta-BHC	319-85-7	**0.612**	0.189	0.0216	mg/kg	06.18.13 01.17	D	100
Chlordane	12789-03-6	U	0.0189	0.00413	mg/kg	06.14.13 22.09	U	1
Delta-BHC	319-86-8	**0.00511**	0.00189	0.000142	mg/kg	06.14.13 22.09		1
Dieldrin	60-57-1	U	0.00378	0.000268	mg/kg	06.14.13 22.09	U	1
Endosulfan I	959-98-8	U	0.00189	0.000160	mg/kg	06.14.13 22.09	U	1
Endosulfan II	33213-65-9	U	0.00378	0.000279	mg/kg	06.14.13 22.09	U	1
Endosulfan Sulfate	1031-07-8	U	0.00378	0.000290	mg/kg	06.14.13 22.09	U	1
Endrin	72-20-8	U	0.00378	0.000241	mg/kg	06.14.13 22.09	U	1
Endrin Aldehyde	7421-93-4	U	0.00378	0.000323	mg/kg	06.14.13 22.09	U	1
Endrin Ketone	53494-70-5	U	0.00378	0.000244	mg/kg	06.14.13 22.09	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0152**	0.00189	0.000170	mg/kg	06.14.13 22.09		1
Gamma-Chlordane	5103-74-2	U	0.00189	0.000162	mg/kg	06.14.13 22.09	U	1
Heptachlor	76-44-8	U	0.00189	0.000165	mg/kg	06.14.13 22.09	U	1
Heptachlor Epoxide	1024-57-3	U	0.00189	0.000160	mg/kg	06.14.13 22.09	U	1
Methoxychlor	72-43-5	U	0.0189	0.00134	mg/kg	06.14.13 22.09	U	1
Toxaphene	8001-35-2	U	0.0755	0.0316	mg/kg	06.14.13 22.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Decachlorobiphenyl	2051-24-3	96	%	32-145	06.14.13 22.09	
Tetrachloro-m-xylene	877-09-8	105	%	11-114	06.14.13 22.09	

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Environmental International Corporation, Alpharetta, GA

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Sample Id: **WH3-S-3 3'-5'** Matrix: Soil Date Received:06.11.13 13.02

Lab Sample Id: 464860-008 Date Collected: 06.10.13 12.55

Analytical Method: Pesticides by SW-846 8081B Prep Method: SW3550/3660B

Tech: BRO % Moisture: 32.73

Analyst: NTR Date Prep: 06.13.13 14.30 Basis: Dry Weight

Seq Number: 916375

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.00491	0.000333	mg/kg	06.14.13 22.26	U	1
4,4-DDE	72-55-9	U	0.00491	0.000399	mg/kg	06.14.13 22.26	U	1
4,4-DDT	50-29-3	U	0.00491	0.000477	mg/kg	06.14.13 22.26	U	1
Aldrin	309-00-2	U	0.00246	0.000289	mg/kg	06.14.13 22.26	U	1
Alpha-BHC	319-84-6	U	0.00246	0.000215	mg/kg	06.14.13 22.26	U	1
Alpha-Chlordane	5103-71-9	U	0.00246	0.000225	mg/kg	06.14.13 22.26	U	1
Beta-BHC	319-85-7	**0.00759**	0.00246	0.000282	mg/kg	06.14.13 22.26		1
Chlordane	12789-03-6	U	0.0246	0.00537	mg/kg	06.14.13 22.26	U	1
Delta-BHC	319-86-8	U	0.00246	0.000184	mg/kg	06.14.13 22.26	U	1
Dieldrin	60-57-1	U	0.00491	0.000348	mg/kg	06.14.13 22.26	U	1
Endosulfan I	959-98-8	U	0.00246	0.000208	mg/kg	06.14.13 22.26	U	1
Endosulfan II	33213-65-9	U	0.00491	0.000363	mg/kg	06.14.13 22.26	U	1
Endosulfan Sulfate	1031-07-8	U	0.00491	0.000377	mg/kg	06.14.13 22.26	U	1
Endrin	72-20-8	U	0.00491	0.000314	mg/kg	06.14.13 22.26	U	1
Endrin Aldehyde	7421-93-4	U	0.00491	0.000421	mg/kg	06.14.13 22.26	U	1
Endrin Ketone	53494-70-5	U	0.00491	0.000318	mg/kg	06.14.13 22.26	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.00246	0.000221	mg/kg	06.14.13 22.26	U	1
Gamma-Chlordane	5103-74-2	U	0.00246	0.000211	mg/kg	06.14.13 22.26	U	1
Heptachlor	76-44-8	U	0.00246	0.000215	mg/kg	06.14.13 22.26	U	1
Heptachlor Epoxide	1024-57-3	U	0.00246	0.000209	mg/kg	06.14.13 22.26	U	1
Methoxychlor	72-43-5	U	0.0246	0.00175	mg/kg	06.14.13 22.26	U	1
Toxaphene	8001-35-2	U	0.0983	0.0412	mg/kg	06.14.13 22.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Decachlorobiphenyl	2051-24-3	98	%	32-145	06.14.13 22.26	
Tetrachloro-m-xylene	877-09-8	92	%	11-114	06.14.13 22.26	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **WH3-S-4 0'-2'** Matrix: Soil Date Received:06.11.13 13.02

Lab Sample Id: 464860-009 Date Collected: 06.10.13 11.02

Analytical Method: Pesticides by SW-846 8081B Prep Method: SW3550/3660B

Tech: BRO % Moisture: 10.83

Analyst: NTR Date Prep: 06.13.13 14.30 Basis: Dry Weight

Seq Number: 916375

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.00367	0.000249	mg/kg	06.14.13 22.44	U	1
4,4-DDE	72-55-9	U	0.00367	0.000298	mg/kg	06.14.13 22.44	U	1
4,4-DDT	50-29-3	U	0.00367	0.000356	mg/kg	06.14.13 22.44	U	1
Aldrin	309-00-2	U	0.00184	0.000216	mg/kg	06.14.13 22.44	U	1
Alpha-BHC	319-84-6	**0.00136**	0.00184	0.000161	mg/kg	06.14.13 22.44	J	1
Alpha-Chlordane	5103-71-9	U	0.00184	0.000168	mg/kg	06.14.13 22.44	U	1
Beta-BHC	319-85-7	**0.00626**	0.00184	0.000210	mg/kg	06.14.13 22.44		1
Chlordane	12789-03-6	U	0.0184	0.00401	mg/kg	06.14.13 22.44	U	1
Delta-BHC	319-86-8	U	0.00184	0.000138	mg/kg	06.14.13 22.44	U	1
Dieldrin	60-57-1	U	0.00367	0.000260	mg/kg	06.14.13 22.44	U	1
Endosulfan I	959-98-8	U	0.00184	0.000155	mg/kg	06.14.13 22.44	U	1
Endosulfan II	33213-65-9	U	0.00367	0.000271	mg/kg	06.14.13 22.44	U	1
Endosulfan Sulfate	1031-07-8	U	0.00367	0.000281	mg/kg	06.14.13 22.44	U	1
Endrin	72-20-8	U	0.00367	0.000235	mg/kg	06.14.13 22.44	U	1
Endrin Aldehyde	7421-93-4	U	0.00367	0.000314	mg/kg	06.14.13 22.44	U	1
Endrin Ketone	53494-70-5	U	0.00367	0.000237	mg/kg	06.14.13 22.44	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.00184	0.000165	mg/kg	06.14.13 22.44	U	1
Gamma-Chlordane	5103-74-2	U	0.00184	0.000157	mg/kg	06.14.13 22.44	U	1
Heptachlor	76-44-8	U	0.00184	0.000160	mg/kg	06.14.13 22.44	U	1
Heptachlor Epoxide	1024-57-3	U	0.00184	0.000156	mg/kg	06.14.13 22.44	U	1
Methoxychlor	72-43-5	U	0.0184	0.00131	mg/kg	06.14.13 22.44	U	1
Toxaphene	8001-35-2	U	0.0734	0.0308	mg/kg	06.14.13 22.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Decachlorobiphenyl	2051-24-3	100	%	32-145	06.14.13 22.44	
Tetrachloro-m-xylene	877-09-8	104	%	11-114	06.14.13 22.44	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **WH3-S-4 3'-5'** Matrix: Soil Date Received:06.11.13 13.02

Lab Sample Id: 464860-010 Date Collected: 06.10.13 11.11

Analytical Method: Pesticides by SW-846 8081B Prep Method: SW3550/3660B

Tech: BRO % Moisture: 9.97

Analyst: NTR Date Prep: 06.13.13 14.30 Basis: Dry Weight

Seq Number: 916375

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.00363	0.000246	mg/kg	06.14.13 23.02	U	1
4,4-DDE	72-55-9	U	0.00363	0.000295	mg/kg	06.14.13 23.02	U	1
4,4-DDT	50-29-3	U	0.00363	0.000352	mg/kg	06.14.13 23.02	U	1
Aldrin	309-00-2	U	0.00181	0.000213	mg/kg	06.14.13 23.02	U	1
Alpha-BHC	319-84-6	U	0.00181	0.000159	mg/kg	06.14.13 23.02	U	1
Alpha-Chlordane	5103-71-9	U	0.00181	0.000166	mg/kg	06.14.13 23.02	U	1
Beta-BHC	319-85-7	**0.00154**	0.00181	0.000208	mg/kg	06.14.13 23.02	J	1
Chlordane	12789-03-6	U	0.0181	0.00397	mg/kg	06.14.13 23.02	U	1
Delta-BHC	319-86-8	U	0.00181	0.000136	mg/kg	06.14.13 23.02	U	1
Dieldrin	60-57-1	U	0.00363	0.000257	mg/kg	06.14.13 23.02	U	1
Endosulfan I	959-98-8	U	0.00181	0.000153	mg/kg	06.14.13 23.02	U	1
Endosulfan II	33213-65-9	U	0.00363	0.000268	mg/kg	06.14.13 23.02	U	1
Endosulfan Sulfate	1031-07-8	U	0.00363	0.000278	mg/kg	06.14.13 23.02	U	1
Endrin	72-20-8	U	0.00363	0.000232	mg/kg	06.14.13 23.02	U	1
Endrin Aldehyde	7421-93-4	U	0.00363	0.000311	mg/kg	06.14.13 23.02	U	1
Endrin Ketone	53494-70-5	U	0.00363	0.000235	mg/kg	06.14.13 23.02	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.00181	0.000164	mg/kg	06.14.13 23.02	U	1
Gamma-Chlordane	5103-74-2	U	0.00181	0.000156	mg/kg	06.14.13 23.02	U	1
Heptachlor	76-44-8	U	0.00181	0.000158	mg/kg	06.14.13 23.02	U	1
Heptachlor Epoxide	1024-57-3	U	0.00181	0.000154	mg/kg	06.14.13 23.02	U	1
Methoxychlor	72-43-5	U	0.0181	0.00129	mg/kg	06.14.13 23.02	U	1
Toxaphene	8001-35-2	U	0.0726	0.0304	mg/kg	06.14.13 23.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Decachlorobiphenyl	2051-24-3	101	%	32-145	06.14.13 23.02	
Tetrachloro-m-xylene	877-09-8	96	%	11-114	06.14.13 23.02	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **WH3-N-1 0'-2'** Matrix: Soil Date Received:06.11.13 13.02

Lab Sample Id: 464860-013 Date Collected: 06.10.13 16.15

Analytical Method: Pesticides by SW-846 8081B Prep Method: SW3550/3660B

Tech: 5458 % Moisture: 11.58

Analyst: NTR Date Prep: 06.19.13 10.00 Basis: Dry Weight

Seq Number: 917137

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.00375	0.000254	mg/kg	06.26.13 21.20	U	1
4,4-DDE	72-55-9	U	0.00375	0.000304	mg/kg	06.26.13 21.20	U	1
4,4-DDT	50-29-3	U	0.00375	0.000363	mg/kg	06.26.13 21.20	U	1
Aldrin	309-00-2	U	0.00187	0.000220	mg/kg	06.26.13 21.20	U	1
Alpha-BHC	319-84-6	U	0.00187	0.000164	mg/kg	06.26.13 21.20	U	1
Alpha-Chlordane	5103-71-9	U	0.00187	0.000172	mg/kg	06.26.13 21.20	U	1
Beta-BHC	319-85-7	**0.0477**	0.0187	0.00215	mg/kg	06.26.13 23.06	D	10
Chlordane	12789-03-6	U	0.0187	0.00409	mg/kg	06.26.13 21.20	U	1
Delta-BHC	319-86-8	**0.0112**	0.00187	0.000140	mg/kg	06.26.13 21.20		1
Dieldrin	60-57-1	U	0.00375	0.000266	mg/kg	06.26.13 21.20	U	1
Endosulfan I	959-98-8	U	0.00187	0.000158	mg/kg	06.26.13 21.20	U	1
Endosulfan II	33213-65-9	U	0.00375	0.000277	mg/kg	06.26.13 21.20	U	1
Endosulfan Sulfate	1031-07-8	U	0.00375	0.000287	mg/kg	06.26.13 21.20	U	1
Endrin	72-20-8	U	0.00375	0.000240	mg/kg	06.26.13 21.20	U	1
Endrin Aldehyde	7421-93-4	U	0.00375	0.000321	mg/kg	06.26.13 21.20	U	1
Endrin Ketone	53494-70-5	U	0.00375	0.000242	mg/kg	06.26.13 21.20	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.00187	0.000169	mg/kg	06.26.13 21.20	U	1
Gamma-Chlordane	5103-74-2	U	0.00187	0.000161	mg/kg	06.26.13 21.20	U	1
Heptachlor	76-44-8	U	0.00187	0.000164	mg/kg	06.26.13 21.20	U	1
Heptachlor Epoxide	1024-57-3	U	0.00187	0.000159	mg/kg	06.26.13 21.20	U	1
Methoxychlor	72-43-5	U	0.0187	0.00133	mg/kg	06.26.13 21.20	U	1
Toxaphene	8001-35-2	U	0.0749	0.0314	mg/kg	06.26.13 21.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Decachlorobiphenyl	2051-24-3	101	%	32-145	06.26.13 21.20	
Tetrachloro-m-xylene	877-09-8	75	%	11-114	06.26.13 21.20	

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Sample Id:	**WH3-N-1 3'-5'**	Matrix:	Soil	Date Received:	06.11.13 13.02
Lab Sample Id:	464860-014	Date Collected:	06.10.13 16.20		
Analytical Method:	Pesticides by SW-846 8081B			Prep Method:	SW3550/3660B
Tech:	5458			% Moisture:	7.15
Analyst:	NTR	Date Prep:	06.19.13 10.00	Basis:	Dry Weight
Seq Number:	917137				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.00357	0.000242	mg/kg	06.26.13 21.38	U	1
4,4-DDE	72-55-9	U	0.00357	0.000290	mg/kg	06.26.13 21.38	U	1
4,4-DDT	50-29-3	U	0.00357	0.000347	mg/kg	06.26.13 21.38	U	1
Aldrin	309-00-2	U	0.00179	0.000210	mg/kg	06.26.13 21.38	U	1
Alpha-BHC	319-84-6	U	0.00179	0.000156	mg/kg	06.26.13 21.38	U	1
Alpha-Chlordane	5103-71-9	U	0.00179	0.000164	mg/kg	06.26.13 21.38	U	1
Beta-BHC	319-85-7	U	0.00179	0.000205	mg/kg	06.26.13 21.38	U	1
Chlordane	12789-03-6	U	0.0179	0.00390	mg/kg	06.26.13 21.38	U	1
Delta-BHC	319-86-8	U	0.00179	0.000134	mg/kg	06.26.13 21.38	U	1
Dieldrin	60-57-1	U	0.00357	0.000253	mg/kg	06.26.13 21.38	U	1
Endosulfan I	959-98-8	U	0.00179	0.000151	mg/kg	06.26.13 21.38	U	1
Endosulfan II	33213-65-9	U	0.00357	0.000264	mg/kg	06.26.13 21.38	U	1
Endosulfan Sulfate	1031-07-8	U	0.00357	0.000274	mg/kg	06.26.13 21.38	U	1
Endrin	72-20-8	U	0.00357	0.000228	mg/kg	06.26.13 21.38	U	1
Endrin Aldehyde	7421-93-4	U	0.00357	0.000306	mg/kg	06.26.13 21.38	U	1
Endrin Ketone	53494-70-5	U	0.00357	0.000231	mg/kg	06.26.13 21.38	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.00179	0.000161	mg/kg	06.26.13 21.38	U	1
Gamma-Chlordane	5103-74-2	U	0.00179	0.000153	mg/kg	06.26.13 21.38	U	1
Heptachlor	76-44-8	U	0.00179	0.000156	mg/kg	06.26.13 21.38	U	1
Heptachlor Epoxide	1024-57-3	U	0.00179	0.000152	mg/kg	06.26.13 21.38	U	1
Methoxychlor	72-43-5	U	0.0179	0.00127	mg/kg	06.26.13 21.38	U	1
Toxaphene	8001-35-2	U	0.0714	0.0299	mg/kg	06.26.13 21.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Decachlorobiphenyl	2051-24-3	106	%	32-145	06.26.13 21.38	
Tetrachloro-m-xylene	877-09-8	69	%	11-114	06.26.13 21.38	

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Environmental International Corporation, Alpharetta, GA

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Sample Id:	**WH3-N-2 0'-2'**	Matrix:	Soil	Date Received:	06.11.13 13.02
Lab Sample Id:	464860-015	Date Collected:	06.10.13 14.40		
Analytical Method:	Pesticides by SW-846 8081B			Prep Method:	SW3550/3660B
Tech:	5458			% Moisture:	9.76
Analyst:	NTR	Date Prep:	06.19.13 10.00	Basis:	Dry Weight
Seq Number:	917137				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.00369	0.000250	mg/kg	06.26.13 21.56	U	1
4,4-DDE	72-55-9	U	0.00369	0.000299	mg/kg	06.26.13 21.56	U	1
4,4-DDT	50-29-3	U	0.00369	0.000358	mg/kg	06.26.13 21.56	U	1
Aldrin	309-00-2	U	0.00184	0.000216	mg/kg	06.26.13 21.56	U	1
Alpha-BHC	319-84-6	U	0.00184	0.000161	mg/kg	06.26.13 21.56	U	1
Alpha-Chlordane	5103-71-9	U	0.00184	0.000169	mg/kg	06.26.13 21.56	U	1
Beta-BHC	319-85-7	**0.00641**	0.00184	0.000211	mg/kg	06.26.13 21.56		1
Chlordane	12789-03-6	U	0.0184	0.00403	mg/kg	06.26.13 21.56	U	1
Delta-BHC	319-86-8	U	0.00184	0.000138	mg/kg	06.26.13 21.56	U	1
Dieldrin	60-57-1	U	0.00369	0.000261	mg/kg	06.26.13 21.56	U	1
Endosulfan I	959-98-8	U	0.00184	0.000156	mg/kg	06.26.13 21.56	U	1
Endosulfan II	33213-65-9	U	0.00369	0.000272	mg/kg	06.26.13 21.56	U	1
Endosulfan Sulfate	1031-07-8	U	0.00369	0.000283	mg/kg	06.26.13 21.56	U	1
Endrin	72-20-8	U	0.00369	0.000236	mg/kg	06.26.13 21.56	U	1
Endrin Aldehyde	7421-93-4	U	0.00369	0.000315	mg/kg	06.26.13 21.56	U	1
Endrin Ketone	53494-70-5	U	0.00369	0.000238	mg/kg	06.26.13 21.56	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.00184	0.000166	mg/kg	06.26.13 21.56	U	1
Gamma-Chlordane	5103-74-2	U	0.00184	0.000158	mg/kg	06.26.13 21.56	U	1
Heptachlor	76-44-8	U	0.00184	0.000161	mg/kg	06.26.13 21.56	U	1
Heptachlor Epoxide	1024-57-3	U	0.00184	0.000157	mg/kg	06.26.13 21.56	U	1
Methoxychlor	72-43-5	U	0.0184	0.00131	mg/kg	06.26.13 21.56	U	1
Toxaphene	8001-35-2	U	0.0737	0.0309	mg/kg	06.26.13 21.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Decachlorobiphenyl	2051-24-3	99	%	32-145	06.26.13 21.56	
Tetrachloro-m-xylene	877-09-8	88	%	11-114	06.26.13 21.56	

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Sample Id:	**WH3-N-2 3'-5'**	Matrix:	Soil	Date Received:	06.11.13 13.02
Lab Sample Id:	464860-016	Date Collected:	06.10.13 14.47		
Analytical Method:	Pesticides by SW-846 8081B			Prep Method:	SW3550/3660B
Tech:	5458			% Moisture:	5.66
Analyst:	NTR	Date Prep:	06.19.13 10.00	Basis:	Dry Weight
Seq Number:	917137				

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8		U	0.00351	0.000238	mg/kg	06.26.13 22.13	U	1
4,4-DDE	72-55-9		U	0.00351	0.000285	mg/kg	06.26.13 22.13	U	1
4,4-DDT	50-29-3		U	0.00351	0.000341	mg/kg	06.26.13 22.13	U	1
Aldrin	309-00-2		U	0.00176	0.000206	mg/kg	06.26.13 22.13	U	1
Alpha-BHC	319-84-6		U	0.00176	0.000154	mg/kg	06.26.13 22.13	U	1
Alpha-Chlordane	5103-71-9		U	0.00176	0.000161	mg/kg	06.26.13 22.13	U	1
Beta-BHC	319-85-7		U	0.00176	0.000201	mg/kg	06.26.13 22.13	U	1
Chlordane	12789-03-6		U	0.0176	0.00384	mg/kg	06.26.13 22.13	U	1
Delta-BHC	319-86-8		U	0.00176	0.000132	mg/kg	06.26.13 22.13	U	1
Dieldrin	60-57-1		U	0.00351	0.000249	mg/kg	06.26.13 22.13	U	1
Endosulfan I	959-98-8		U	0.00176	0.000148	mg/kg	06.26.13 22.13	U	1
Endosulfan II	33213-65-9		U	0.00351	0.000260	mg/kg	06.26.13 22.13	U	1
Endosulfan Sulfate	1031-07-8		U	0.00351	0.000269	mg/kg	06.26.13 22.13	U	1
Endrin	72-20-8		U	0.00351	0.000225	mg/kg	06.26.13 22.13	U	1
Endrin Aldehyde	7421-93-4		U	0.00351	0.000301	mg/kg	06.26.13 22.13	U	1
Endrin Ketone	53494-70-5		U	0.00351	0.000227	mg/kg	06.26.13 22.13	U	1
Gamma-BHC (Lindane)	58-89-9		U	0.00176	0.000158	mg/kg	06.26.13 22.13	U	1
Gamma-Chlordane	5103-74-2		U	0.00176	0.000151	mg/kg	06.26.13 22.13	U	1
Heptachlor	76-44-8		U	0.00176	0.000153	mg/kg	06.26.13 22.13	U	1
Heptachlor Epoxide	1024-57-3		U	0.00176	0.000149	mg/kg	06.26.13 22.13	U	1
Methoxychlor	72-43-5		U	0.0176	0.00125	mg/kg	06.26.13 22.13	U	1
Toxaphene	8001-35-2		U	0.0702	0.0294	mg/kg	06.26.13 22.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Decachlorobiphenyl	2051-24-3	95	%	32-145	06.26.13 22.13	
Tetrachloro-m-xylene	877-09-8	53	%	11-114	06.26.13 22.13	

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Sample Id: **WH3-N-3 0'-2'** Matrix: Soil Date Received:06.11.13 13.02

Lab Sample Id: 464860-017 Date Collected: 06.10.13 13.19

Analytical Method: Pesticides by SW-846 8081B Prep Method: SW3550/3660B

Tech: 5458 % Moisture: 8.05

Analyst: NTR Date Prep: 06.19.13 10.00 Basis: Dry Weight

Seq Number: 917137

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.00361	0.000244	mg/kg	06.26.13 22.31	U	1
4,4-DDE	72-55-9	**0.00185**	0.00361	0.000293	mg/kg	06.26.13 22.31	J	1
4,4-DDT	50-29-3	**0.00536**	0.00361	0.000350	mg/kg	06.26.13 22.31		1
Aldrin	309-00-2	U	0.00180	0.000212	mg/kg	06.26.13 22.31	U	1
Alpha-BHC	319-84-6	**0.00343**	0.00180	0.000158	mg/kg	06.26.13 22.31		1
Alpha-Chlordane	5103-71-9	U	0.00180	0.000165	mg/kg	06.26.13 22.31	U	1
Beta-BHC	319-85-7	**0.140**	0.0180	0.00207	mg/kg	06.27.13 00.16	D	10
Chlordane	12789-03-6	U	0.0180	0.00394	mg/kg	06.26.13 22.31	U	1
Delta-BHC	319-86-8	**0.00276**	0.00180	0.000135	mg/kg	06.26.13 22.31		1
Dieldrin	60-57-1	U	0.00361	0.000256	mg/kg	06.26.13 22.31	U	1
Endosulfan I	959-98-8	U	0.00180	0.000152	mg/kg	06.26.13 22.31	U	1
Endosulfan II	33213-65-9	U	0.00361	0.000267	mg/kg	06.26.13 22.31	U	1
Endosulfan Sulfate	1031-07-8	U	0.00361	0.000277	mg/kg	06.26.13 22.31	U	1
Endrin	72-20-8	U	0.00361	0.000231	mg/kg	06.26.13 22.31	U	1
Endrin Aldehyde	7421-93-4	U	0.00361	0.000309	mg/kg	06.26.13 22.31	U	1
Endrin Ketone	53494-70-5	U	0.00361	0.000233	mg/kg	06.26.13 22.31	U	1
Gamma-BHC (Lindane)	58-89-9	**0.00265**	0.00180	0.000163	mg/kg	06.26.13 22.31		1
Gamma-Chlordane	5103-74-2	U	0.00180	0.000155	mg/kg	06.26.13 22.31	U	1
Heptachlor	76-44-8	U	0.00180	0.000157	mg/kg	06.26.13 22.31	U	1
Heptachlor Epoxide	1024-57-3	U	0.00180	0.000153	mg/kg	06.26.13 22.31	U	1
Methoxychlor	72-43-5	U	0.0180	0.00128	mg/kg	06.26.13 22.31	U	1
Toxaphene	8001-35-2	U	0.0721	0.0302	mg/kg	06.26.13 22.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Decachlorobiphenyl	2051-24-3	101	%	32-145	06.26.13 22.31	
Tetrachloro-m-xylene	877-09-8	100	%	11-114	06.26.13 22.31	

Certificate of Analytical Results 464860

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id:	**WH3-N-3 3'-5'**	Matrix:	Soil	Date Received:	06.11.13 13.02
Lab Sample Id:	464860-018	Date Collected:	06.10.13 13.32		
Analytical Method:	Pesticides by SW-846 8081B			Prep Method:	SW3550/3660B
Tech:	5458			% Moisture:	4.52
Analyst:	NTR	Date Prep:	06.19.13 10.00	Basis:	Dry Weight
Seq Number:	917137				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.00348	0.000236	mg/kg	06.26.13 22.48	U	1
4,4-DDE	72-55-9	U	0.00348	0.000283	mg/kg	06.26.13 22.48	U	1
4,4-DDT	50-29-3	U	0.00348	0.000338	mg/kg	06.26.13 22.48	U	1
Aldrin	309-00-2	U	0.00174	0.000205	mg/kg	06.26.13 22.48	U	1
Alpha-BHC	319-84-6	U	0.00174	0.000153	mg/kg	06.26.13 22.48	U	1
Alpha-Chlordane	5103-71-9	U	0.00174	0.000160	mg/kg	06.26.13 22.48	U	1
Beta-BHC	319-85-7	**0.00959**	0.00174	0.000200	mg/kg	06.26.13 22.48		1
Chlordane	12789-03-6	U	0.0174	0.00381	mg/kg	06.26.13 22.48	U	1
Delta-BHC	319-86-8	U	0.00174	0.000131	mg/kg	06.26.13 22.48	U	1
Dieldrin	60-57-1	U	0.00348	0.000247	mg/kg	06.26.13 22.48	U	1
Endosulfan I	959-98-8	U	0.00174	0.000147	mg/kg	06.26.13 22.48	U	1
Endosulfan II	33213-65-9	U	0.00348	0.000258	mg/kg	06.26.13 22.48	U	1
Endosulfan Sulfate	1031-07-8	U	0.00348	0.000267	mg/kg	06.26.13 22.48	U	1
Endrin	72-20-8	U	0.00348	0.000223	mg/kg	06.26.13 22.48	U	1
Endrin Aldehyde	7421-93-4	U	0.00348	0.000298	mg/kg	06.26.13 22.48	U	1
Endrin Ketone	53494-70-5	U	0.00348	0.000225	mg/kg	06.26.13 22.48	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.00174	0.000157	mg/kg	06.26.13 22.48	U	1
Gamma-Chlordane	5103-74-2	U	0.00174	0.000149	mg/kg	06.26.13 22.48	U	1
Heptachlor	76-44-8	U	0.00174	0.000152	mg/kg	06.26.13 22.48	U	1
Heptachlor Epoxide	1024-57-3	U	0.00174	0.000148	mg/kg	06.26.13 22.48	U	1
Methoxychlor	72-43-5	U	0.0174	0.00124	mg/kg	06.26.13 22.48	U	1
Toxaphene	8001-35-2	U	0.0697	0.0292	mg/kg	06.26.13 22.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Decachlorobiphenyl	2051-24-3	97	%	32-145	06.26.13 22.48	
Tetrachloro-m-xylene	877-09-8	86	%	11-114	06.26.13 22.48	

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 quantiation 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

QC Summary 464860

Environmental International Corporation

GPA Bainbridge, GA

Analytical Method: **Pesticides by SW-846 8081B** Prep Method: SW3550/3660B

Seq Number: 916375 Matrix: Solid Date Prep: 06.13.13

MB Sample Id: 639700-1-BLK LCS Sample Id: 639700-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
4,4-DDD	<0.000226	0.0167	0.0102	61	40-176	mg/kg	06.14.13 19:30	
4,4-DDE	<0.000271	0.0167	0.0128	77	45-187	mg/kg	06.14.13 19:30	
4,4-DDT	<0.000323	0.0167	0.00808	48	32-178	mg/kg	06.14.13 19:30	
Aldrin	<0.000196	0.0167	0.0128	77	45-151	mg/kg	06.14.13 19:30	
Alpha-BHC	<0.000146	0.0167	0.0130	78	43-156	mg/kg	06.14.13 19:30	
Alpha-Chlordane	<0.000153	0.0167	0.0123	74	66-192	mg/kg	06.14.13 19:30	
Beta-BHC	<0.000191	0.0167	0.0150	90	43-155	mg/kg	06.14.13 19:30	
Delta-BHC	<0.000125	0.0167	0.00937	56	56-170	mg/kg	06.14.13 19:30	
Dieldrin	<0.000236	0.0167	0.0175	105	48-163	mg/kg	06.14.13 19:30	
Endosulfan I	<0.000141	0.0167	0.0127	76	57-176	mg/kg	06.14.13 19:30	
Endosulfan II	<0.000246	0.0167	0.0167	100	58-159	mg/kg	06.14.13 19:30	
Endosulfan Sulfate	<0.000256	0.0167	0.0106	63	29-163	mg/kg	06.14.13 19:30	
Endrin	<0.000213	0.0167	0.00917	55	19-181	mg/kg	06.14.13 19:30	
Endrin Aldehyde	<0.000285	0.0167	0.0160	96	35-155	mg/kg	06.14.13 19:30	
Endrin Ketone	<0.000216	0.0167	0.0121	72	55-185	mg/kg	06.14.13 19:30	
Gamma-BHC (Lindane)	<0.000150	0.0167	0.0120	72	43-159	mg/kg	06.14.13 19:30	
Gamma-Chlordane	<0.000143	0.0167	0.0133	80	27-138	mg/kg	06.14.13 19:30	
Heptachlor	<0.000146	0.0167	0.00825	49	45-170	mg/kg	06.14.13 19:30	
Heptachlor Epoxide	<0.000142	0.0167	0.0137	82	33-163	mg/kg	06.14.13 19:30	
Methoxychlor	<0.00119	0.0167	0.0108	65	50-196	mg/kg	06.14.13 19:30	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	Limits	Units	Analysis Date
Decachlorobiphenyl	98		117		32-145	%	06.14.13 19:30
Tetrachloro-m-xylene	95		74		11-114	%	06.14.13 19:30

QC Summary 464860

Environmental International Corporation

GPA Bainbridge, GA

Analytical Method: **Pesticides by SW-846 8081B** Prep Method: SW3550/3660B

Seq Number: 917137 Matrix: Solid Date Prep: 06.19.13

MB Sample Id: 640204-1-BLK LCS Sample Id: 640204-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
4,4-DDD	<0.000226	0.0167	0.0209	125	40-176	mg/kg	06.26.13 20:28	
4,4-DDE	<0.000271	0.0167	0.0179	107	45-187	mg/kg	06.26.13 20:28	
4,4-DDT	<0.000323	0.0167	0.0169	101	32-178	mg/kg	06.26.13 20:28	
Aldrin	<0.000196	0.0167	0.0150	90	45-151	mg/kg	06.26.13 20:28	
Alpha-BHC	<0.000146	0.0167	0.0145	87	43-156	mg/kg	06.26.13 20:28	
Alpha-Chlordane	<0.000153	0.0167	0.0140	84	66-192	mg/kg	06.26.13 20:28	
Beta-BHC	<0.000191	0.0167	0.0174	104	43-155	mg/kg	06.26.13 20:28	
Delta-BHC	<0.000125	0.0167	0.0186	111	56-170	mg/kg	06.26.13 20:28	
Dieldrin	<0.000236	0.0167	0.0176	105	48-163	mg/kg	06.26.13 20:28	
Endosulfan I	<0.000141	0.0167	0.0135	81	57-176	mg/kg	06.26.13 20:28	
Endosulfan II	<0.000246	0.0167	0.0163	98	58-159	mg/kg	06.26.13 20:28	
Endosulfan Sulfate	<0.000256	0.0167	0.0178	107	29-163	mg/kg	06.26.13 20:28	
Endrin	<0.000213	0.0167	0.0165	99	19-181	mg/kg	06.26.13 20:28	
Endrin Aldehyde	<0.000285	0.0167	0.0184	110	35-155	mg/kg	06.26.13 20:28	
Endrin Ketone	<0.000216	0.0167	0.0172	103	55-185	mg/kg	06.26.13 20:28	
Gamma-BHC (Lindane)	<0.000150	0.0167	0.0142	85	43-159	mg/kg	06.26.13 20:28	
Gamma-Chlordane	<0.000143	0.0167	0.0169	101	27-138	mg/kg	06.26.13 20:28	
Heptachlor	<0.000146	0.0167	0.0143	86	45-170	mg/kg	06.26.13 20:28	
Heptachlor Epoxide	<0.000142	0.0167	0.0159	95	33-163	mg/kg	06.26.13 20:28	
Methoxychlor	<0.00119	0.0167	0.0194	116	50-196	mg/kg	06.26.13 20:28	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	Limits	Units	Analysis Date
Decachlorobiphenyl	110		114		32-145	%	06.26.13 20:28
Tetrachloro-m-xylene	93		84		11-114	%	06.26.13 20:28

QC Summary 464860

Environmental International Corporation

GPA Bainbridge, GA

Analytical Method: **Pesticides by SW-846 8081B** Prep Method: SW3550/3660B

Seq Number: 916375 Matrix: Soil Date Prep: 06.13.13

Parent Sample Id: 464860-003 MS Sample Id: 464860-003 S MSD Sample Id: 464860-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
4,4-DDD	0.00529	0.0186	0.0258	110	0.0287	130	40-176	11	30	mg/kg	06.14.13 19:48	
4,4-DDE	<0.000302	0.0186	0.0241	130	0.0274	148	45-187	13	30	mg/kg	06.14.13 19:48	
4,4-DDT	0.00609	0.0186	0.0248	101	0.0297	128	32-178	18	30	mg/kg	06.14.13 19:48	
Aldrin	<0.000218	0.0186	0.0197	106	0.0196	106	45-151	1	30	mg/kg	06.14.13 19:48	
Alpha-BHC	0.00470	0.0186	0.0251	110	0.0289	131	43-156	14	30	mg/kg	06.14.13 19:48	
Alpha-Chlordane	<0.000170	0.0186	0.0158	85	0.0462	250	66-192	98	30	mg/kg	06.14.13 19:48	XF
Beta-BHC	1.06	0.0186	0.763	0	1.08	108	43-155	34	30	mg/kg	06.14.13 19:48	XF
Delta-BHC	0.00417	0.0186	0.0277	127	0.0361	173	56-170	26	30	mg/kg	06.14.13 19:48	X
Dieldrin	<0.000264	0.0186	0.0263	141	0.0254	137	48-163	3	30	mg/kg	06.14.13 19:48	
Endosulfan I	<0.000157	0.0186	0.0158	85	0.0160	86	57-176	1	30	mg/kg	06.14.13 19:48	
Endosulfan II	<0.000275	0.0186	0.0200	108	0.0196	106	58-159	2	30	mg/kg	06.14.13 19:48	
Endosulfan Sulfate	<0.000285	0.0186	0.0172	92	0.0202	109	29-163	16	30	mg/kg	06.14.13 19:48	
Endrin	<0.000238	0.0186	0.0181	97	0.0210	114	19-181	15	30	mg/kg	06.14.13 19:48	
Endrin Aldehyde	<0.000318	0.0186	0.0196	105	0.0197	106	35-155	1	30	mg/kg	06.14.13 19:48	
Endrin Ketone	<0.000241	0.0186	0.0179	96	0.0187	101	55-185	4	30	mg/kg	06.14.13 19:48	
Gamma-BHC (Lindane)	<0.000168	0.0186	0.0219	118	0.0248	134	43-159	12	30	mg/kg	06.14.13 19:48	
Gamma-Chlordane	<0.000159	0.0186	0.0191	103	0.0199	108	27-138	4	30	mg/kg	06.14.13 19:48	
Heptachlor	<0.000162	0.0186	0.0203	109	0.0286	155	45-170	34	30	mg/kg	06.14.13 19:48	F
Heptachlor Epoxide	<0.000158	0.0186	0.0194	104	0.0192	104	33-163	1	30	mg/kg	06.14.13 19:48	
Methoxychlor	<0.00132	0.0186	0.0228	123	0.0276	149	50-196	19	30	mg/kg	06.14.13 19:48	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Decachlorobiphenyl	103		103		32-145	%	06.14.13 19:48
Tetrachloro-m-xylene	104		92		11-114	%	06.14.13 19:48

QC Summary 464860

Environmental International Corporation

GPA Bainbridge, GA

Analytical Method: **Pesticides by SW-846 8081B** Prep Method: SW3550/3660B

Seq Number: 917137 Matrix: Soil Date Prep: 06.19.13

Parent Sample Id: 464860-018 MS Sample Id: 464860-018 S MSD Sample Id: 464860-018 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
4,4-DDD	<0.000235	0.0174	0.0225	129	0.0226	130	40-176	0	30	mg/kg	06.26.13 20:45	
4,4-DDE	<0.000282	0.0174	0.0173	99	0.0190	109	45-187	9	30	mg/kg	06.26.13 20:45	
4,4-DDT	<0.000337	0.0174	0.0165	95	0.0178	102	32-178	8	30	mg/kg	06.26.13 20:45	
Aldrin	<0.000204	0.0174	0.0145	83	0.0156	90	45-151	7	30	mg/kg	06.26.13 20:45	
Alpha-BHC	<0.000152	0.0174	0.0152	87	0.0161	93	43-156	6	30	mg/kg	06.26.13 20:45	
Alpha-Chlordane	<0.000159	0.0174	0.0136	78	0.0148	85	66-192	8	30	mg/kg	06.26.13 20:45	
Beta-BHC	0.00959	0.0174	0.0254	91	0.0311	124	43-155	20	30	mg/kg	06.26.13 20:45	
Delta-BHC	<0.000130	0.0174	0.0172	99	0.0184	106	56-170	7	30	mg/kg	06.26.13 20:45	
Dieldrin	<0.000246	0.0174	0.0160	92	0.0187	107	48-163	16	30	mg/kg	06.26.13 20:45	
Endosulfan I	<0.000147	0.0174	0.0127	73	0.0143	82	57-176	12	30	mg/kg	06.26.13 20:45	
Endosulfan II	<0.000257	0.0174	0.0139	80	0.0155	89	58-159	11	30	mg/kg	06.26.13 20:45	
Endosulfan Sulfate	<0.000266	0.0174	0.0178	102	0.0179	103	29-163	1	30	mg/kg	06.26.13 20:45	
Endrin	<0.000222	0.0174	0.0169	97	0.0174	100	19-181	3	30	mg/kg	06.26.13 20:45	
Endrin Aldehyde	<0.000297	0.0174	0.0175	101	0.0195	112	35-155	11	30	mg/kg	06.26.13 20:45	
Endrin Ketone	<0.000225	0.0174	0.0170	98	0.0164	94	55-185	4	30	mg/kg	06.26.13 20:45	
Gamma-BHC (Lindane)	<0.000156	0.0174	0.0143	82	0.0157	90	43-159	9	30	mg/kg	06.26.13 20:45	
Gamma-Chlordane	<0.000149	0.0174	0.0150	86	0.0175	101	27-138	15	30	mg/kg	06.26.13 20:45	
Heptachlor	<0.000152	0.0174	0.0151	87	0.0164	94	45-170	8	30	mg/kg	06.26.13 20:45	
Heptachlor Epoxide	<0.000147	0.0174	0.0152	87	0.0165	95	33-163	8	30	mg/kg	06.26.13 20:45	
Methoxychlor	<0.00124	0.0174	0.0212	122	0.0185	106	50-196	14	30	mg/kg	06.26.13 20:45	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Decachlorobiphenyl	97		113		32-145	%	06.26.13 20:45
Tetrachloro-m-xylene	78		87		11-114	%	06.26.13 20:45

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
☐ Philadelphia/New Jersey 610-955-5649
☐ South Carolina 803-543-8099 ☐ Other

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 262988 Page 1 of 2

Company-City: EIC - Alpharetta Phone: 770-772-7100
Lab Only: NO# 464860
Proj Name-Location: GPA - Bainbridge ☑ Previously done at XENCO Project ID:
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: Alan Sanders Signature: Alan Sanders

	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	8021B/3600B Organochlorine Pesticides with Sulfur Cleanup	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	Remarks
1	RSW Island S 0'-2'	6/10/13	10:24		S		X	1	4	C	NA										X					
2	RSW Island S 3'-5'	6/10/13	10:39		S		X	1	4	C	NA										X					
3	WH3-S-1 0'-2'	6/10/13	15:38		S		X	1	4	C	NA										X					
4	WH3-S-1 3'-5'	6/10/13	15:51		S		X	1	4	C	NA										X					
5	WH3-S-2 0'-2'	6/10/13	14:02		S		X	1	4	C	NA										X					
6	WH3-S-2 3'-5'	6/10/13	14:~~17~~ 18		S		X	1	4	C	NA										X					
7	WH3-S-3 0'-2'	6/10/13	12:20		S		X	1	4	C	NA										X					
8	WH3-S-3 3'-5'	6/10/13	12:55		S		X	1	4	C	NA										X					
9	WH3-S-4 0'-2'	6/10/13	11:02		S		X	1	4	C	NA										X					
10	WH3-S-4 3'-5'	6/10/13	11:11		S		X	1	4	C	NA										X			3°C		

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) A.J. Alan Sanders	6/11/2013 13:02	2) Nick Ramsey	6/14/13 1302
3)		4)	
5)		6)	

Total Containers per COC: 20 Cooler Temp:

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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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☐ 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 #: 262995 Page 2 of 2

Company-City: EIC - Alpharetta Phone: 770-772-7100
Lab Only: W077464860 [Hold until given permission to run samples!

Proj Name-Location: GPA - Bainbridge ☐ Previously done at XENCO Project ID: 400007-4.2
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: Alan Sanders Signature: Alan Sanders

#	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 with Sulfur Cleanup										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	RSW Island N 0'-2'	6/10/13	9:38		S		X	1	4	C	NA										X																	
2	RSW Island N 3'-5'	6/10/13	9:52		S		X	1	4	C	NA										X																	
3	WH3-N-1 0'-2'	6/10/13	16:15		S		X	1	4	C	NA										X																	
4	WH3-N-1 3'-5'	6/10/13	16:20		S		X	1	4	C	NA										X																	
5	WH3-N-2 0'-2'	6/10/13	14:40		S		X	1	4	C	NA										X																	
6	WH3-N-2 3'-5'	6/10/13	14:47		S		X	1	4	C	NA										X																	
7	WH3-N-3 0'-2'	6/10/13	13:19		S		X	1	4	C	NA										X																	
8	WH3-N-3 3'-5'	6/10/13	13:32		S		X	1	4	C	NA										X																	
9	WH3-N-4 0'-2'	6/10/13	11:45		S		X	1	4	C	NA										X																	
10	WH3-N-4 3'-5'	6/10/13	11:58		S		X	1	4	C	NA										X																	

taken off hold 6/18/2013 by Alan Sanders @ 8:45am

Remarks
From:
Rcv by:
Date
Addn:

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) AS Alan Sanders	6/11/2013 13:02	2) Mark Rowe	6/11/13 1300
3)		4)	
5)		6)	

Total Containers per COC: Cooler Temp:

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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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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Florida Testing Services, LLC

Client: Environmental International Corporation

Date/ Time Received: 06/11/2013 01:02:00 PM

Work Order #: 464860

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

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3
#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**
#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)?	**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: 06/12/2013

Checklist reviewed by: Dijana Piljak Date: 06/12/2013

APPENDIX D

ENVIRONMENTAL INTERNATIONAL CORPORATION
161 Kimball Bridge Road, Suite 100, Alpharetta, GA 30009
Phone: 770-772-7100, Fax: 770-772-0555
Website:www.eicusa.com

October 28, 2013

Ms. Natalie Dawn
Georgia Ports Authority
PO Box 2406
Savannah, Georgia 31402

Re: Report on First Quarter 2013 (Baseline) VIRP Quarterly MNA Groundwater Monitoring Event, GPA Bainbridge Terminal, HSI Site No. 10071, Bainbridge, Georgia

File: 400007 - 4.5

Dear Ms. Dawn:

On November 2, 2012, the Georgia Environmental Protection Division (EPD) approved a "Voluntary Investigation and Remediation Plan (VIRP)" that was prepared by Environmental International Corporation (EIC) for the above referenced site on behalf of Georgia Ports Authority (GPA). During the first quarter of 2013, GPA retained EIC to implement the scope of work defined in the VIRP. The plan specified a groundwater monitoring program to define the vertical and horizontal extent of constituents of concern (COC), and to determine the potential for Monitored Natural Attenuation (MNA) of the COCs. During the first year, the groundwater monitoring program entails quarterly groundwater monitoring events. Subsequently, groundwater monitoring will be performed on a semi-annual basis. This report presents the results of the first groundwater monitoring event conducted during the first quarter of 2013.

The VIRP program entails collecting groundwater samples for analysis from monitoring wells at the site as well as at offsite locations hydraulically up-gradient and side-gradient of the site. During this event, EIC collected 22 groundwater samples from 22 wells.

The analytical data from the current groundwater monitoring event therefore establishes a baseline of the prevailing extent of COCs from which trends may be tracked. Subsequent analysis is essential in establishing trends to verify whether natural attenuation of COCs is in progress and to determine if changes to the remedial strategy are required. The trend analysis is also useful in verifying if remedial objectives meet Site Specific Type 4 Risk Reduction Standards (RRS) established in the VIRP and assists in delineating the horizontal extent of COCs to meet the Type 1 RRS, also established in the VIRP. Trends in COCs degradation rates and plume stability will be determined using data collected from subsequent quarterly analyses.

1.0 PROJECT BACKGROUND

The site, located at 1321 Spring Creek Road (Georgia Highway 253) in Bainbridge, Decatur County, Georgia, was originally constructed in 1958. The facilities at the site consist of a bulkhead (or pier) formerly used for loading and unloading goods from barges, an office building, a maintenance shed, four warehouses (including the Rock Salt Warehouse (RSW)), several bulk storage sheds, and a forested section. A railroad within the property, that runs parallel to Spring Creek Road, divides the site into a North Parcel and a South Parcel. A spur extends from this railroad into the site property. Currently, GPA utilizes the railroad for the receipt and distribution of bulk materials. The facility no longer utilizes river barges to transport materials. A portion of the North Parcel was recently divested by GPA to Agrium Inc. (Agrium). GPA continues its site operations in the South Parcel. The terminal was historically used for the storage of various agricultural products and commodities.

During a Phase I assessment, conducted in 1993, an engineering firm discovered pesticide contamination at the site. Based on additional investigations, EPD listed the site on the state Hazardous Site Inventory (HSI) in 1994. Subsequently, additional site investigations progressively revealed soil contamination in other areas. In compliance with the Georgia EPD regulations, GPA prepared a corrective action plan (CAP) to address the on-site liabilities. GPA has completed excavation and disposal of approximately 4,000 cubic yards of shallow soils at various locations in the North Parcel to address soil contamination.

During the delineation of soil contamination in the South Parcel, however, GPA discovered that the soil contamination near to and south of the RSW at AOC 1 extends from approximately 0 to 2 feet below the grade to approximately 24 feet below grade (EIC, 2012). In addition, GPA discovered that the groundwater contamination present at the property extends hydraulically up-gradient, well beyond GPA property, north of Spring Creek Road. The source of groundwater contamination is currently under review by EIC.

In November 2009, GPA submitted a draft CAP to the EPD to address the site liabilities. To fulfill the CAP objectives, GPA was required to excavate a relatively large quantity of contaminated soil near the RSW. While the true extent of the soil contamination remains undefined, the transfer of soils from the GPA site to a landfill is open to potential liabilities. Furthermore, even if GPA removed all contaminated soils, groundwater contamination would remain persistent at the site. Meeting the CAP cleanup standards for groundwater would require considerably more time and significantly greater resources than those defined in the CAP.

As an alternative to the CAP, EIC developed a conceptual technical strategy under the Georgia Voluntary Remediation Program (VRP) and submitted a VIRP application to the EPD on July 27, 2012 (EIC, 2012). On November 2, 2012, the VIRP was approved by the EPD (EPD, 2012a). With the approval letter, the EPD also issued a comments letter (EPD, 2012b). Subsequently, GPA prepared the necessary documents for authorization by its Board of Directors. The board approved the VIRP pathway and the required budget during the first quarter of 2013. GPA then retained EIC to proceed with the implementation of the VIRP. Upon receipt of GPA's notice to proceed dated February 21, 2013, EIC initiated project activities as outlined in the VIRP.

2.0 PROJECT OBJECTIVES

In the VIRP, EIC proposed to collect groundwater samples from all accessible monitoring wells illustrated in Figure 1. This current groundwater monitoring program will establish a new baseline and the data from this groundwater monitoring program, combined with subsequent groundwater monitoring events, will assist GPA in meeting the following goals set forth in the VIRP. These include:

- Perform quarterly site-wide groundwater monitoring events for COC analysis from wells located both within the pesticides footprint as well as outside this footprint followed by semi-annual groundwater monitoring events, to establish a baseline horizontal and vertical extent of the prevailing contaminant plume.
- Conduct a well inventory to document the conditions of all site wells and to identify the location of monitoring wells, MW-2, MW-3, and MW-9 that had been reported as "not-found" during previous investigations. If located, EIC will repair, redevelop, (or, if necessary) replace and properly abandon unusable monitoring wells.
- Determine if the prevailing groundwater COCs meet or are trending towards meeting the established RRS by periodically performing a two-dimensional concentration/time analysis.
- Review plume stability.
- Track MNA by monitoring the groundwater contaminants within the existing plume.
- Select a fate and transport model to evaluate the effectiveness of the MNA program in compliance with site-specific RRS.
- Based on the observed trends, make further decisions on whether to continue with natural attenuation to reach remedial end points or to evaluate other enhancement measures.

The following sections outline the tasks performed by EIC to meet these objectives.

3.0 GROUNDWATER MONITORING FIELD PROGRAM

To meet the project objectives, EIC conducted groundwater monitoring of all accessible monitoring wells within and outside the known contaminant plumes. These include wells, MW-1, MW-1A, MW-4U, MW-5A, MW-5D, MW-6, MW-7, MW-8, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, and MW-22.

In addition, EIC attempted to locate missing wells MW-2, MW-3, and MW-9. Utilizing a magnetometer and visual observations, EIC was successful in identifying the location of MW-2 and added this well to the groundwater monitoring program. EIC then collected a groundwater sample at MW-2. EIC was, however, unable to locate monitoring wells MW-3 and MW-9. The search effort for these wells is documented in the 2013 First Semi-annual Report (EIC, 2013a).

During the period from March 25, 2013 through March 28, 2013, EIC collected groundwater samples from a total of 22 wells and submitted the samples for laboratory analysis. The following

sections describe EIC's groundwater monitoring technical approach.

3.1 GROUNDWATER MONITORING PROTOCOL

The groundwater monitoring program was conducted in accordance with the current U.S. EPA groundwater sampling procedure "Field Branches Quality System and Technical Procedures" (FBQSTP) per the 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).

3.2 SITE ACCESS

Prior to EIC's site visit, EIC coordinated with the GPA to collect groundwater samples from on-site wells and coordinated with GPA in gaining access from Agrium to collect groundwater samples from off-site wells MW-15, MW-16, MW-18, MW-19, MW-20, and MW-21. EIC also contacted the Georgia Department of Transportation (DOT) in obtaining permission to access monitoring well MW-22 which is located on the north right-of-way of Georgia State Highway 253/Spring Creek Road.

3.3 FIELD PROCEDURES

3.3.1 Groundwater Gauging

EIC gauged each well with a pressure transducer to determine the depth to groundwater and utilized the top-of-casing (TOC) elevations to determine the groundwater elevation. This initial gauging data is tabulated in Table 1.

3.3.2 Groundwater Sampling

Prior to initiating field sampling activities on March 25, 2013, GPA placed a 55-gallon drum to containerize purged groundwater in the vicinity of well MW-18. EIC then placed a temporary label on this drum with shipper noted as "Georgia Ports Authority", contents noted as "IDW Well Purge Water", and accumulation date noted as "3/25/2013".

EIC utilized a peristaltic pump for purging and sampling. Disposable 1/4-inch inner diameter 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. Based on both the depth to groundwater (determined during gauging), the field measured difference between the height of the well TOC relative to the ground surface (stick-

up height), and the depth to the screened interval of each well (based on historical well logs), EIC determined the depth to set the Teflon-lined tubing intake. 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 to the depth of the tubing intake during pumping, as indicated by the presence of air bubbles in the tubing.

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 3 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 A). Groundwater quality field parameters after stabilization and prior to sample collection are summarized in Table 2. It should be noted that at 6 of the wells, turbidity levels of 10 NTUs or lower could not be reached after reasonable attempts were made prior to sampling the wells. EIC also recorded field activities in a field book.

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 containers ("coolers") 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. The 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 analysis of methane, ethane, and ethene gases via EPA Method RSK-175. Based on EPD's comment letter dated November 2, 2012, EIC removed metals from the groundwater sampling program. The laboratory report is included as Attachment B.

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 from March 25, 2013 through March 27, 2013. EIC hand-delivered the remaining samples, for all the aforementioned analyses, to the laboratory on March 29, 2013. At the end of sampling activities, GPA placed the 55-gallon drum containing investigation derived waste (IDW) purge water in the parking lot near the southeast corner of the RSW.

4.0 QUALITY ASSURANCE AND QUALITY CONTROL

During the groundwater sampling process, EIC collected additional samples for quality assurance and validation of analytical results. One additional sample was collected from each of wells MW-20 and MW-22 for organochlorine pesticides laboratory matrix spike analysis via EPA method 8081B/3660B. Additionally, EIC collected one complete duplicate sample set from well MW-18 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 8-inches of silicone tubing. Each sample set was then stored with ice in coolers and shipped to the laboratory along with the rest of the samples. All sample bottles were properly sealed and labeled in the field.

In the duplicate MW-18 sample, alpha and beta BHC were the only two BHC constituents above the detection limit as with the actual MW-18 sample. The duplicate sample had an alpha BHC concentration of 0.0267 µg/L, compared to the 0.033 µg/L in the actual sample, and the beta BHC concentration in the duplicate sample was 0.598 µg/L, compared to 0.882 µg/L in the actual sample. All of the analytical results for the equipment blank were below the detection limit, except for total organic carbon with a concentration of 0.681 J µg/L and chloride at 0.426 J mg/L. The source of these two constituents were not determined.

To prevent cross-contamination, dedicated disposable Teflon-lined tubing and silicone tubing were used to collect all samples. EIC's pressure transducer was 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 and the flow-through cell was decontaminated by disassembling the cell and cleaning both the parameter sensors and cell itself with pressurized DI water and, if needed, phosphate-free detergent.

5.0 DATA EVALUATION

EIC conducted an evaluation of the data compiled from field groundwater monitoring and laboratory analysis to determine the current groundwater potentiometric surface and the horizontal extent of the prevailing contaminant plume. This groundwater monitoring event includes data from a considerably larger number of wells than the previous groundwater monitoring event; therefore this analytical data serves as a more complete baseline for further evaluation than did previous events.

Two wells, MW-14 and MW-17, are considered deep wells because the top of their screened interval is equal to or deeper than 50 feet below ground surface (bgs). Because they are considered deep wells, the groundwater elevation data and the contaminant concentrations at these two wells was not considered in the creation of the potentiometric surface map and the contaminant plume maps. However, the values for MW-14 and MW-17 are displayed on each map.

5.1 GROUNDWATER POTENTIOMETRIC MAP

From the gauging data summarized in Table 1, EIC prepared a groundwater potentiometric surface map (Figure 2). The contour interval in Figure 2 is 0.1 feet higher as compared to the potentiometric map in April 2012 (EIC, 2012 – Figure 1-6) (0.20 foot rather than 0.10 foot interval) because the overall variation in the groundwater elevations was much higher in the current event. In general, groundwater flows to the southeast towards the Flint River.

From a well survey EIC conducted in June 2013, it was determined that the correct TOC elevation of MW-16 was 1.02 feet lower than had been previously noted in historical reports and in the April 2012 potentiometric surface map (EIC, 2013b). Therefore, EIC updated the elevation data for MW-16 and four other nearby wells, included in the survey for reference, based on this survey. The correction of TOC elevation for MW-16 significantly changed the previous interpretation of groundwater flow conditions in the potentiometric surface whereby a trough feature, clearly evident in the April 2012 potentiometric surface immediately west of wells MW-20 and MW-22 and a dome feature around MW-16 is not depicted in the March 2013 map. Prior to the correction, the domed feature at MW-16 was originally depicted around MW-16 from the March 2013 data as well. As a result of the corrected TOC elevation for MW-16, the potentiometric surface has a more consistently gradual slope towards the Flint River with lines of equal elevation more closely paralleling the river – as would normally be expected. Another effect of the TOC elevation correction is that the domed topographical feature surrounding MW-16, is no longer present.

Note, that beginning with the March 2013 dataset, EIC has defined wells with the top of the screened interval at or deeper than 50 feet below ground surface to be deep wells and groundwater elevation data from these wells is not considered in depicting the potentiometric surface. As such, groundwater elevation data from MW-17, which was considered in preparing the April 2012 potentiometric map, is not considered for the March 2013 map or subsequent maps. EIC redefined these wells based on groundwater elevation anomalies that subsequently occurred in MW-17 from the June and September 2013 datasets that wasn't consistent with the April 2012 and March 2013 datasets.

In general and considering the MW-16 TOC correction, the groundwater potentiometric surface elevation in March 2013 was between 1.15 to 3.91 feet higher than the April 2012 groundwater potentiometric surface and displayed a 2-foot average increase. This resulted in an adequate volume of water in MW-13 for this well to be sampled, whereas in April 2012 this well was reportedly dry.

5.2 HORIZONTAL EXTENT OF CONTAMINANT PLUMES

Table 3 summarizes the results of the analysis of organochlorine pesticides from both, the current groundwater monitoring program and historical data. Pesticide contamination analysis included the primary COC, benzenehexachloride (BHC) (consisting of isomers alpha-BHC, beta-BHC, delta-BHC, and gamma-BHC (Lindane)), toxaphene, and other pesticides. All parameters that exceeded the Type 4 RRS are marked in red and are bold. Following EPD's comment letter, item number 7

(EPD, 2012b), EIC has removed the "J-flags" in Table 3 for the historic analytical data pertaining to the April 2012 beta-BHC values that were erroneously flagged in the April 2012 groundwater monitoring report. The results of the MNA analysis of selected inorganic constituents are summarized in Table 4.

Figures 3 through 5 illustrate the horizontal extent of the current pesticide contaminant plumes comprised of alpha-BHC, beta-BHC, and delta-BHC. In preparing these plume maps, EIC utilized the monitoring well locations determined from both historical data and the June 2013 well survey. EIC also utilized the same contour intervals as those illustrated in the VIRP submittal. This allows for a comparative evaluation of the plume maps over time. Furthermore, the limits of the RRS concentrations and the delineation criterion are illustrated to define the horizontal extent of pesticides.

Note, however, that beginning with the March 2013 dataset, as with the potentiometric map, EIC has defined wells with the top of the screened interval at or deeper than 50 feet below ground surface to be deep wells and analytical data from these wells is not considered in defining the horizontal extent. As such, analytical data from MW-17, which was considered in preparing the April 2012 isoconcentration maps, is not considered for the March 2013 or subsequent maps.

5.2.1 Alpha-BHC Plume

Referring to Figure 3, the highest concentrations of alpha-BHC occurred at MW-6 (1.29 µg/L), followed sequentially by MW-22 (1.09 µg/L) and MW-10 (0.899 µg/L). As such, the horizontal distribution of the alpha-BHC plume primarily extends north to south from the areas of MW-10 and MW-22 to MW-5A and extends west to east between the area of the RSW to MW-22. This indicates that the long axis of the plume is aligned along the general groundwater flow direction that is perpendicular to the potentiometric lines illustrated on the groundwater potentiometric map (Figure 2).

The concentration of the alpha-BHC plume has reduced as compared to the concentrations depicted in the alpha-BHC contour map of April 2012 (EIC, 2012 – Figure 2-5). Referring to Figure 3, it is apparent that the horizontal delineation of the alpha-BHC plume is defined except to the north beyond Spring Creek Road where there are no monitoring wells other than MW-22.

5.2.2 Beta-BHC Plume

Referring to Figure 4, the highest concentrations of beta-BHC occurred at MW-22 (18.8 µg/L), followed sequentially by MW-10 (6.76 µg/L) and MW-20 (5.48 µg/L). As such, the horizontal distribution of the beta-BHC plume above RRS extends north to south from the area of MW-22 and MW-10 to MW-12, and extends west to east from near the former MW-9 to MW-16. This indicates that the long axis of the plume is aligned along the general groundwater flow direction that is perpendicular to the potentiometric lines illustrated in Figure 2 – similar to alpha-BHC.

It is interesting to note that the highest BHC concentration representing beta-BHC continues to be found at MW-22 located immediately down-gradient of the Georgia Gulf Sulfur (GGS) property north of Spring Creek Road but hydraulically up-gradient of GPA. An isolated small plume of beta-BHC appears to be located in the area of MW-13 and MW-17. EIC will further evaluate the source that contributed to this isolated plume.

The concentration of the beta-BHC plume has reduced significantly as compared to the concentrations presented in the April 2012 beta-BHC contour map (EIC, 2012 – Figure 2-8). Referring to Figure 4, it appears that the horizontal delineation of the beta-BHC plume is defined except to the north beyond Spring Creek Road where there are no monitoring wells other than MW-22.

5.2.3 Delta-BHC Plume

Referring to Figure 5, the highest concentrations of delta-BHC occurred at MW-6 (2.53 µg/L), followed sequentially by MW-22 (0.818 µg/L), MW-10 (0.683 µg/L), and MW-20 (0.392 µg/L). As such, the horizontal distribution of the delta-BHC plume extends north to south from the area of MW-22 and MW-10 to the vicinity of MW-5A and extends west to east from near the office to the vicinity of MW-22. This indicates that the long axis of the plume is aligned along the general groundwater flow direction that is perpendicular to the potentiometric lines illustrated in Figure 2 - similar to alpha and beta-BHC.

The concentration of the delta-BHC plume has reduced as compared to the concentrations on the April 2012 delta-BHC contour map (EIC, 2012 – Figure 2-11). Referring to Figure 3, it is apparent that the horizontal delineation of the delta-BHC plume is defined except to the north beyond Spring Creek Road where there are no monitoring wells other than MW-22.

5.2.4 Inorganic Parameters

Referring to Table 4, it is apparent that high concentrations of nitrates are present at several off-site wells located on Agrium property. Also, relatively high concentrations of sulfate were present in the north parcel located immediately down-gradient of the Georgia Gulf Sulfur property and at MW-8. EIC will review the potential impact of these and other inorganic parameters from data obtained during subsequent groundwater monitoring events.

5.3 VERTICAL EXTENT OF CONTAMINANT PLUMES

There are two deep wells at the site, namely MW-14 and MW-17, as defined by EIC, as they have screened intervals at or deeper than 50 feet bgs. According to historical well construction logs, the depth to the top of the screened interval in monitoring wells MW-14 and MW-17 are 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 3, following historical trends, the concentrations of alpha-BHC, beta-BHC, and delta-BHC at MW-14 and MW-17, have remained below the RRS. Utilizing subsequent groundwater monitoring event data, EIC will evaluate and ascertain the trends in the vertical extent of COCs and present its findings in future reports.

5.4 BHC PLUME STABILITY

As discussed in Section 5.2, the horizontal extent and concentrations of the alpha-BHC, beta-BHC, and delta-BHC plumes, have reduced substantially and receded significantly away from the Flint River, as compared to April 2012, indicating potential attenuation mechanisms in progress. EIC will further evaluate data from subsequent groundwater monitoring events to determine the stability of these plumes.

6.0 CONCLUSIONS

Based on the results of the first VIRP monitoring program, in comparison to the data from the April 2012 groundwater monitoring event, it appears that the overall horizontal extent of the BHC plume appears to be receding. It is apparent, however, that a portion of the BHC plumes extends into the Agrium property to the east of GPA property. The highest BHC concentration, as represented by beta-BHC, was observed at MW-22, a well immediately down-gradient of the GGS property and located hydraulically up-gradient of GPA. Regarding the vertical extent of the BHC plume, at deep wells, MW-14 and MW-17, the concentrations of the BHC isomers have remained below the RRS, following historical trends. EIC will continue to evaluate the horizontal and vertical trends in COCs utilizing subsequent groundwater monitoring event data.

7.0 RECOMMENDATIONS

- Re-develop monitoring well MW-15; and
- Conduct well rehabilitation of damaged wells.

8.0 REFERENCES

Environmental International Corporation (EIC), 2012. "*VIRP Application, BHC Remediation*", Bainbridge, Georgia, July 31, 2012.

EIC, 2013a. *"First VIRP Semi-annual Progress Report, Georgia Ports Authority – Bainbridge Terminal, HIS Site No. 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19, Bainbridge, Decatur County, Georgia"*. Bainbridge, Georgia, May 9, 2013.

Ms. Natalie Dawn
Georgia Ports Authority

EIC, 2013b. *"June 2013 Land Survey Report, GPA Bainbridge Terminal, Bainbridge, Georgia"* Bainbridge, Georgia, October 2013.

Georgia Environmental Protection Division (EPD), 2012a. *Letter from GA EPD to GPA, "Voluntary Investigation and Remediation Plan (VIRP) and Application, July 25, 2012, Georgia Ports Authority – Bainbridge Terminal, Hazardous Site Inventory Number 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19".* November 2, 2012.

EPD, 2012b. *Letter from GA EPD to GPA, "Voluntary Investigation and Remediation Plan (VIRP) and Application, July 25, 2012, Comment Letter, Georgia Ports Authority – Bainbridge Terminal, Hazardous Site Inventory Number 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19".* November 2, 2012.

U. S. Environmental Protection Agency (EPA), 2013. *Groundwater Sampling, Operating Procedure, Number SESDPROC-301-R3, Region 4, U.S. Environmental Protection Agency, Science and Ecosystem Support Division, Athens, Georgia.* March 6, 2013.

We appreciate the opportunity to have served you on your project needs. If you have any questions, please call or e-mail me.

Sincerely,
ENVIRONMENTAL INTERNATIONAL CORPORATION

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

Cc: Alan Sanders, EIC

TABLES

Table 1: Well Gauging Data for March 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	25.59	79.65	gauged from black mark on high side of casing
MW-1A (2)	105.36	25.71	79.65	gauged from high side of casing on side towards the nearby railroad, determined well has 2-inch casing rather than the 4-inch casing indicated in previous reports
MW-2 (2)	99.70	19.32	80.38	gauged from the eastern high side of the casing
MW-3 ** (2)	NA	NA	NA	did not locate well utilizing magentometer and GPS
MW-4U (2)	103.54	23.91	79.63	gauged from black mark on west side of casing
MW-5A (2)	96.48	17.55	78.93	gauged from north side of casing
MW-5D (2)	95.93	16.96	78.97	gauged from high side of casing
MW-6 (2)	102.06	22.72	79.34	gauged from high side of casing
MW-7 (2)	98.16	18.43	79.73	gauged from the southern high side of casing
MW-8 (2)	93.39	14.90	78.49	gauged from north side of casing
MW-9 ** (2)	NA	NA	NA	did not locate well utilizing magnetometer and GPS
MW-10 * (2)	100.02	20.25	79.77	gauged from side of the well towards Spring Creek Road
MW-11 (2)	100.92	21.04	79.88	gauged from side of the well towards Spring Creek Road
MW-12 (2)	93.89	15.67	78.22	gauged from north side of casing
MW-13 (2)	93.35	15.02	78.33	gauged from north-western high side of casing
MW-14 (2)	101.91	23.39	78.52	gauged from north side of casing
MW-15 (2)	98.03	18.97	79.06	gauged from north side of casing
MW-16 * (2)	97.17	17.42	79.75	gauged from side of the well towards Spring Creek Road
MW-17 (2)	93.50	14.48	79.02	gauged from eastern high side of casing
MW-18 (2)	95.48	16.17	79.31	gauged from north side of casing with tubing in the well
MW-19 (2)	96.54	17.20	79.34	gauged from north side of casing
MW-20 * (2)	96.61	16.89	79.72	gauged from side of the well towards Spring Creek Road
MW-21 * (2)	97.58	17.84	79.74	Gauged from side of the well towards Spring Creek Road
MW-22 * (2)	98.90	19.14	79.76	gauged from side of the well opposite Spring Creek Road

Notes:

All DTW measurements were recorded prior to purging using a Solinst Interface Meter, Model:122

*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
NM = Not Measured
NA = Not Applicable

Table 2: Groundwater Quality Field Parameters Summary for March 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
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
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
MW-3 (2)	3/28/2013	NL	NL	NL	NL	NL	NL
MW-4U (2)	3/28/2013	16.30	3.83	555.00	0.269	7.40	3.32
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
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
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
MW-7 (2)	3/27/2013	18.94	4.41	440.00	0.413	9.00	1.82
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
MW-9 (2)	3/25/2013	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
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
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
MW-13 (2)	3/27/2013	17.64	4.64	192.00	0.396	1.90	1.37
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
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
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
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
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

Table 2: Groundwater Quality Field Parameters Summary for March 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-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
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
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
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

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 3/25/2013 to 3/28/2013, 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

Table 3: Groundwater Data Summary Table for March 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	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/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	0.0510 U	**0.1 J**	0.051 U	0.0510 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	0.00150 U	0.000900 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
MW-1A	7/13/2011	0.0510 U	0.0510 U	0.0510 U	0.0510 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	0.00150 U	0.000900 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
MW-2	7/14/2011	0.0500 U	0.05 U	**0.05**	0.0500 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	0.000900 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
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	NL
MW-4U	3/28/2013	0.0017 U	0.0015 U	0.000900 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
MW-5A	7/15/2011	**0.1300**	**1.41**	**0.559**	**0.1000 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	**0.4300 J**	**15.6 UBL**	**1.6 UBL**	**0.2230 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	**0.0220 J**	**5.1 ***	**0.09**	**0.0190 J**	0.0049 U	**0.080**	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	0.0049 U	0.0049 U	**0.19**	0.98 U
	3/26/2013	**0.0995**	**2.34**	**0.242**	**0.0760**	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
MW-5D	7/1/2011	**1.0000**	**8.7**	**3.7**	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	4/15/2008	**0.1900**	**12**	**0.86**	**0.0810**	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	**1.1800 J**	**23.3**	**4.7**	**0.5380 J**	2.02 U	**2.020** 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	0.5000 U	**8.61**	**0.47 J**	**0.5380 J**	0.5 U	**0.5** U	0.5 U	0.5 U	**5.60**	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	**0.6600**	**6.00 UBL**	**2.10 UBL**	**0.5440**	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	**0.7200**	**5.20 ***	**2.50 ***	**0.6800**	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	0.00980 U	0.0098 U	0.01 U	0.0049 U	0.0049 U	0.01 U	0.98 U
	3/26/2013	0.0017 U	**0.119**	0.000900 U	0.0007 U	0.0019 U	0.002 U	0.0007 U	0.002 U	0.001 U	0.00320 U	0.00140 U	0.00190 U	0.00210 U	0.0022 U	0.0021 U	0.010 U	0.00220	0.00150 U	0.0011 U	0.00130 U	0.215 U
MW-6	9/1/2001	**1.8400**	**1.39**	**2.22**	**0.3100**	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	8/1/2002	**1.2000**	**1.0**	**3.6**	**0.1100**	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	4/14/2008	**1.7000**	**1.1**	**3.5**	**0.0079 J**	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.05 U	0.05 U	0.051 U	0.0510 U	0.05 U	0.05 U	0.051 U	0.05 U	0.051 U	0.051 U	0.05 U	0.051 U
	8/4/2009	**2.3600**	**1.7**	**6.7**	0.5050 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	**2.5000**	**2.5**	**7.9**	0.5260 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	**1.4000**	**1.60**	**2.54 UBL**	0.2530 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	**1.4000 ***	**1.3 ***	**2.6 ***	**0.0130 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	**1.2900**	**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
MW-7	3/27/2013	**0.0300 J**	**0.273**	0.000900 U	0.000700 U	0.00190 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
MW-8	9/2/2001	0.1000 U	**0.22**	0.1 U	0.1000 U	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	4/15/2008	**0.3100**	**1.7**	**0.46**	**0.2000**	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	0.0500 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	**0.5270**	**2.66**	**1.1**	**0.2770**	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	**0.2270**	**1.99**	**0.300 UBL**	**0.1240**	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	**0.2100**	**2.1 ***	**0.28**	**0.1300**	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	**0.0360 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
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
MW-10	4/1/2002	**1.9000**	**9**	**3.7**	**0.8600**	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	6/1/2002	**1.5000**	**8.8**	**1.8**	**0.7000**	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	6/3/2002	**1.5000 J**	**8.8 J**	**1.8 J**	**0.7000 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	**2.0000**	**5.4**	**0.95**	**0.8900**	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	**1.4500**	**6.9**	**1.8**	**0.5640**	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	**1.2000**	**13**	**2.1**	**0.5300**	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	**1.3600**	**9.00**	**1.20 UBL**	**0.5340**	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	**0.7100**	**6.8 ***	**0.46 J***	**0.3500**	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	**0.8990**	**6.76**	**0.683**	**0.3800**	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
MW-11	7/14/2011	0.0500 U	**0.072**	0.05 U	0.0500 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.100 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	0.0510 U	**0.03 UBL**	0.051 U	0.0510 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	0.00090 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
MW-12	7/14/2011	**0.0260 J**	**0.663**	0.05 U	0.0500 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	**0.0170 J**	**0.750**	**0.027 J**	**0.0120 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	**0.0130 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
MW-13	3/27/2013	0.0017 U	**3.37**	0.00090 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
MW-14	7/12/2011	0.0510 U	0.051 U	0.051 U	0.0510 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	0.0510 U	**0.011 J**	0.051 U	0.0510 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	0.051 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
MW-15	4/5/2012	**0.0410 J**	**0.470**	**0.00706 UBL**	0.0510 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
MW-16	7/11/2011	0.0510 U	0.051 U	0.051 U	0.0510 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	0.0570 U	0.057 U	0.057 U	0.0570 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	0.00090 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
MW-17	7/13/2011	0.0510 U	**0.420**	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	0.0510 U	**0.013 UBL**	0.051 U	0.0510 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	**0.0100 J**	**0.37**	**0.032 J**	**0.0110 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	**0.300**	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
MW-18	7/15/2011	0.0500 U	**0.230**	0.05 U	0.0500 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	0.100 U	5 U
	4/5/2012	0.0520 U	**0.400**	0.052 U	0.0520 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	0.103 U	0.515 U	0.103 U	0.052 U	0.052 U	0.103 U	5.15 U
	3/25/2013	**0.0330 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
MW-19	4/5/2012	0.0510 U	**0.036 J**	0.051 U	0.0510 U	0.051 U	0.051 U	0.051 U	**0.080**	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	0.00150 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

Table 3: Groundwater Data Summary Table for March 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	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/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	**0.4600 J**	16	5.90	0.0510 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	**0.2040 J**	10.4	2.40 UBL	**0.0760 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	**0.0790**	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
MW-21	7/12/2011	**0.2100 J**	5.8	0.42 J	0.0510 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	51.00 U
	4/5/2012	0.1150 U	1.90	**0.05 UBL**	**0.0210 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	0.230 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	**0.1300**	6.6 *	0.46 J*	**0.0510**	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	**0.440**	0.000900 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
MW-22	4/5/2012	1.5200 J	33.2	6.40 UBL	**0.7050 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	1.3000 *	24.4 **	2.60 *	**0.5400**	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	1.0900	18.8	0.818	**0.7760**	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

Sources: Analytical results for samples collected in April 2012 and earlier are from CH2MHILL 2012, AccuTest 2012, and ECT 201

Notes:
In response to EPD's comment letter on November 2, 2012 to GPA, item number 7 (EPD, 2012b), EIC has removed the superfluous J-flags which the laboratory did not flag, where necessary for the results in the April 2012 beta-BHC detection
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 quantiation limit and above the detection limit
U = Analyte was not detected.
UBL = Value not certain because of detection in equipment blank.
NL = Well not located
NS = Well not sampled
NM = Contaminant not measured.
*= Results from Run #2.
**= Results from Run #3.
***= Primary and confirmation results differ by more than 40%. Lower value reported due to possible corelation

Table 4: Groundwater Data Summary Table for March 2013 Monitoring Event - MNA
GPA Bainbridge Terminal, Bainbridge, Georgia

	Analyte	Ethane	Ethene	Methane	Manganese	TOC*	Chloride*	Nitrate	Sulfate
	Unit	ug/L	ug/L	ug/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
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
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	0.0267 J	1.19	2.96 J	0.174 J	11.8
MW-3	3/28/2013	NL	NL	NL	NL	NL	NL	NL	NL
MW-4U	3/28/2013	0.002030 U	0.0020 U	0.00187 U	0.352	1.25	8.38	15.2	148
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
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
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
MW-7	3/27/2013	0.002030 U	0.0020 U	0.00922	4.75	4.66	12.6	0.024 U	175
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
MW-9	3/25/2013	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	0.00203 U	0.0020 U	0.00187 U	1.06	2.43	40.5	0.024 U	492
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
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
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
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
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
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
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
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
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
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

Table 4: Groundwater Data Summary Table for March 2013 Monitoring Event - MNA
GPA Bainbridge Terminal, Bainbridge, Georgia

Analyte		Ethane	Ethene	Methane	Manganese	TOC*	Chloride*	Nitrate	Sulfate
Unit		ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L
Well ID	**Sample Date**								
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**
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**

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

Notes:

Samples delivered to laboratory withing holding time.

Due to high analyte concentrations, laboratory had to perform successive dilution aliquots . Final nitrate analysis performed therefore exceeded the holding time by approximately two hours for MW-18 sample and one hour for MW-19 sample, collected on 03/25/2013.

* Concentrations of TOC (0.68 mg/L) and chloride (0.426 J mg/L) were detected in the equipment blank sampled on 3/26/2013.

MNA = Monitored Natural Attenuation.

TOC = Total Organic Carbon.

ug/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 limit.

1.50 = Result above detection limit.

NM = Contaminant Not Measured.

NL = Well not located

NS = Well not sampled

FIGURES

MOUNT OLIVE ROAD

GEORGIA GULF SULFUR

GEORGIA HWY 253

SPRING CREEK ROAD

NORTH PARCEL

SOUTH PARCEL

AGRIUM

ERGON

OFFICE

R.S.W.

W.H.1

W.H.2

W.H.3

N.L.

FLINT RIVER

MW-1

MW-1A

MW-2

MW-3

MW-4U

MW-5A

MW-5D

MW-6

MW-7

MW-8

MW-9

MW-10

MW-11

MW-12

MW-13

MW-14

MW-15

MW-16

MW-17

MW-18

MW-19

MW-20

MW-21

MW-22

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)

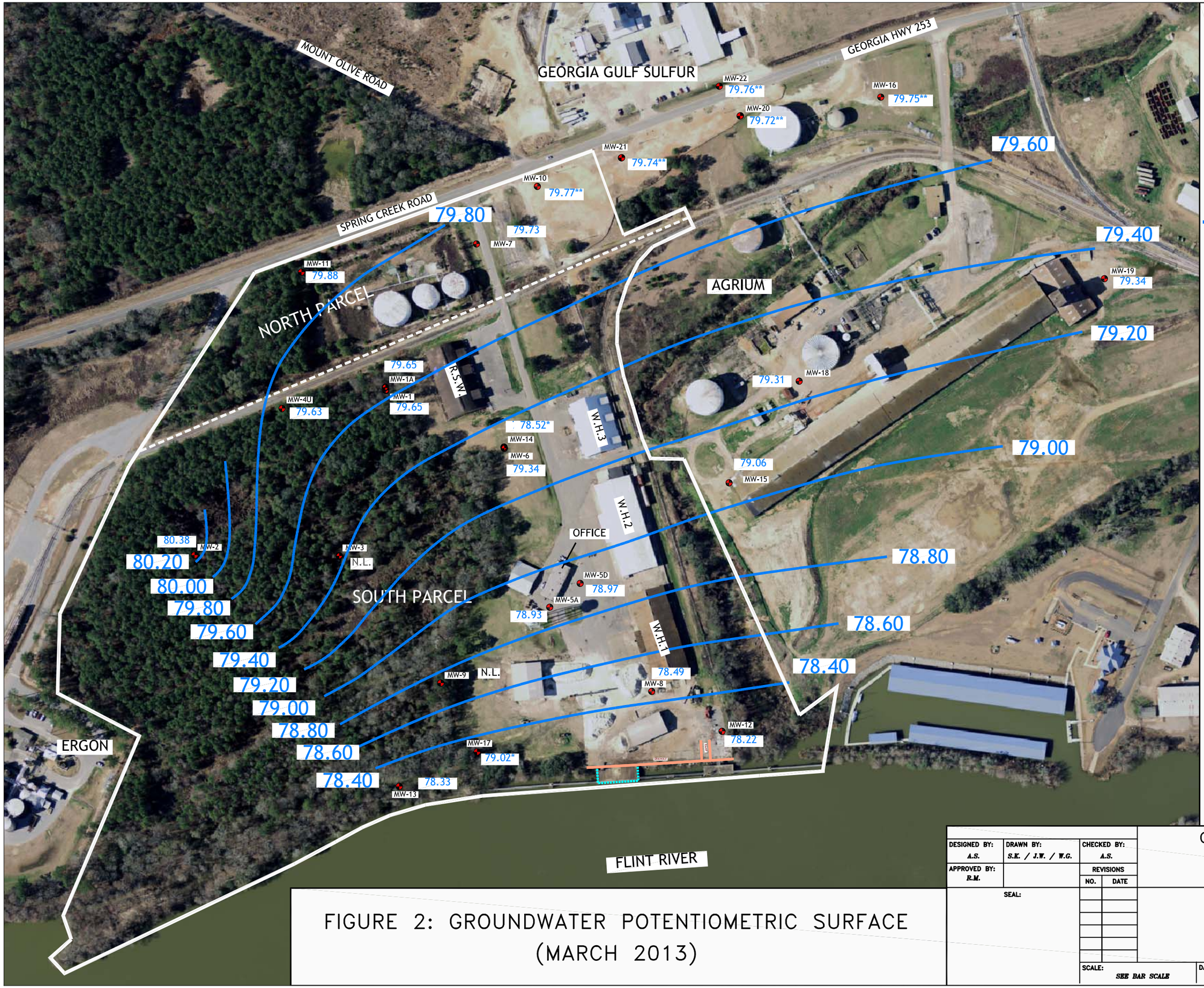
FIGURE 1: SITE MAP

DESIGNED BY: A.S.	DRAWN BY: W.G.	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	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
79.40	GROUNDWATER ELEVATION CONTOUR
79.31	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., NC ON 6/5/2013. REMAINING GROUNDWATER ELEVATION DATA POINTS ARE DETERMINED WITH TOC ELEVATION DATA FROM MULTIPLE REPORTS PROVIDED BY CH2MHILL
	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.

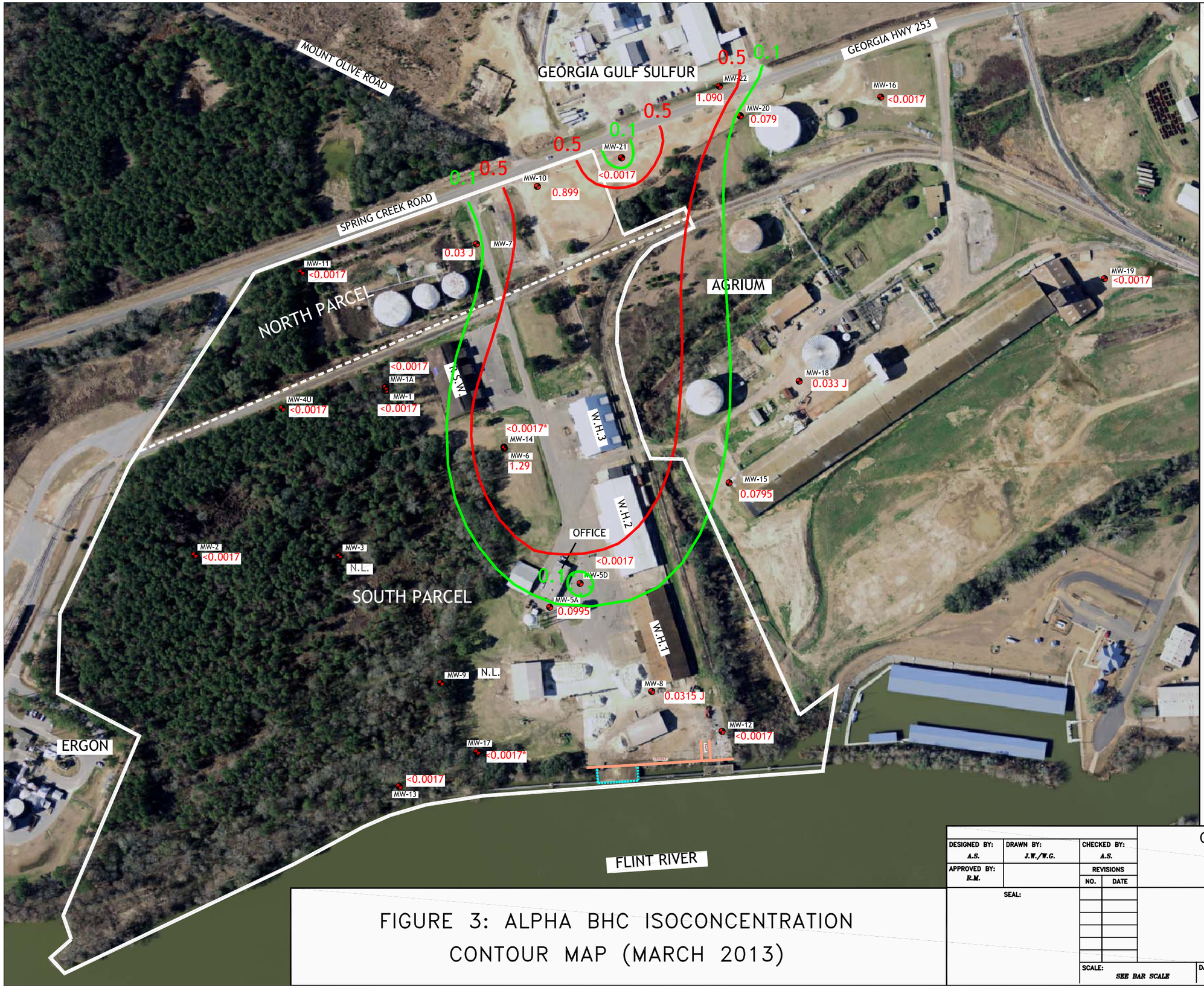
N

100 0 100 200 300

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 2: GROUNDWATER POTENTIOMETRIC SURFACE (MARCH 2013)

DESIGNED BY: A.S.	DRAWN BY: S.K. / J.W. / W.G.	CHECKED BY: A.S.	GEORGIA PORTS AUTHORITY BAINBRIDGE TERMINAL Bainbridge, Georgia
APPROVED BY: R.M.		REVISIONS NO. / DATE	
SEAL:			ENVIRONMENTAL INTERNATIONAL CORP. 161 KIMBALL BRIDGE ROAD ALPHARETTA, GEORGIA 30009
		SCALE: SEE BAR SCALE	DATE: 10/7/2013
		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
0.079	BHC CONCENTRATION (ug/L)
J	TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTIATION LIMIT AND ABOVE THE DETECTION LIMIT
	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)

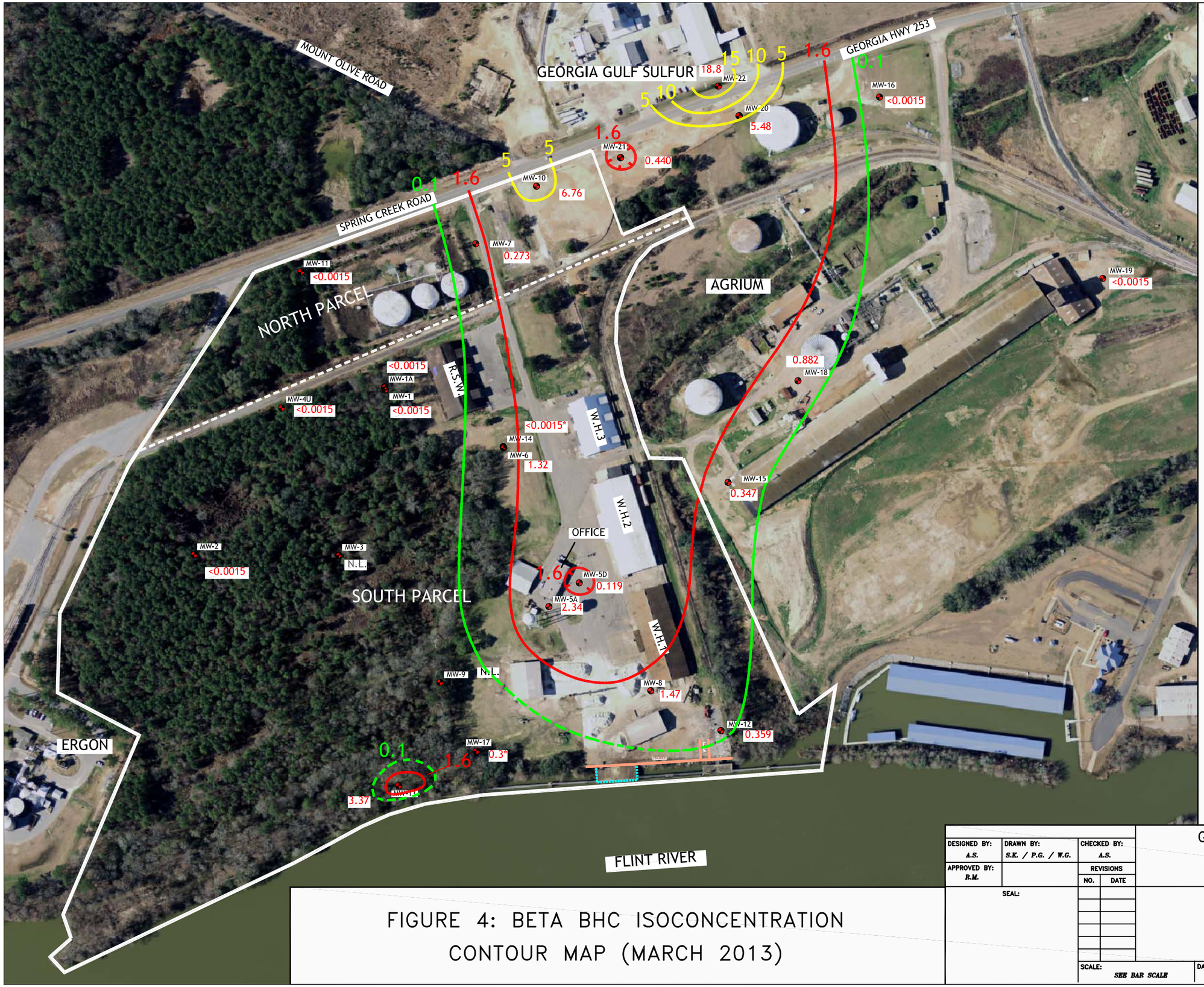
FIGURE 3: ALPHA BHC ISOCONCENTRATION CONTOUR MAP (MARCH 2013)

DESIGNED BY: A.S.	DRAWN BY: J.W./W.G.	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	9/23/2013	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
- 0.119 — BHC CONCENTRATION (ug/L)
- J — TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTIATION 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
- SHEET PILE BULKHEAD
- EDGE OF PIER
- BETA BHC CONTOUR
- TYPE 4 RRS LIMIT 1.6 ug/L
- DELINEATION STANDARD 0.1 ug/L

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

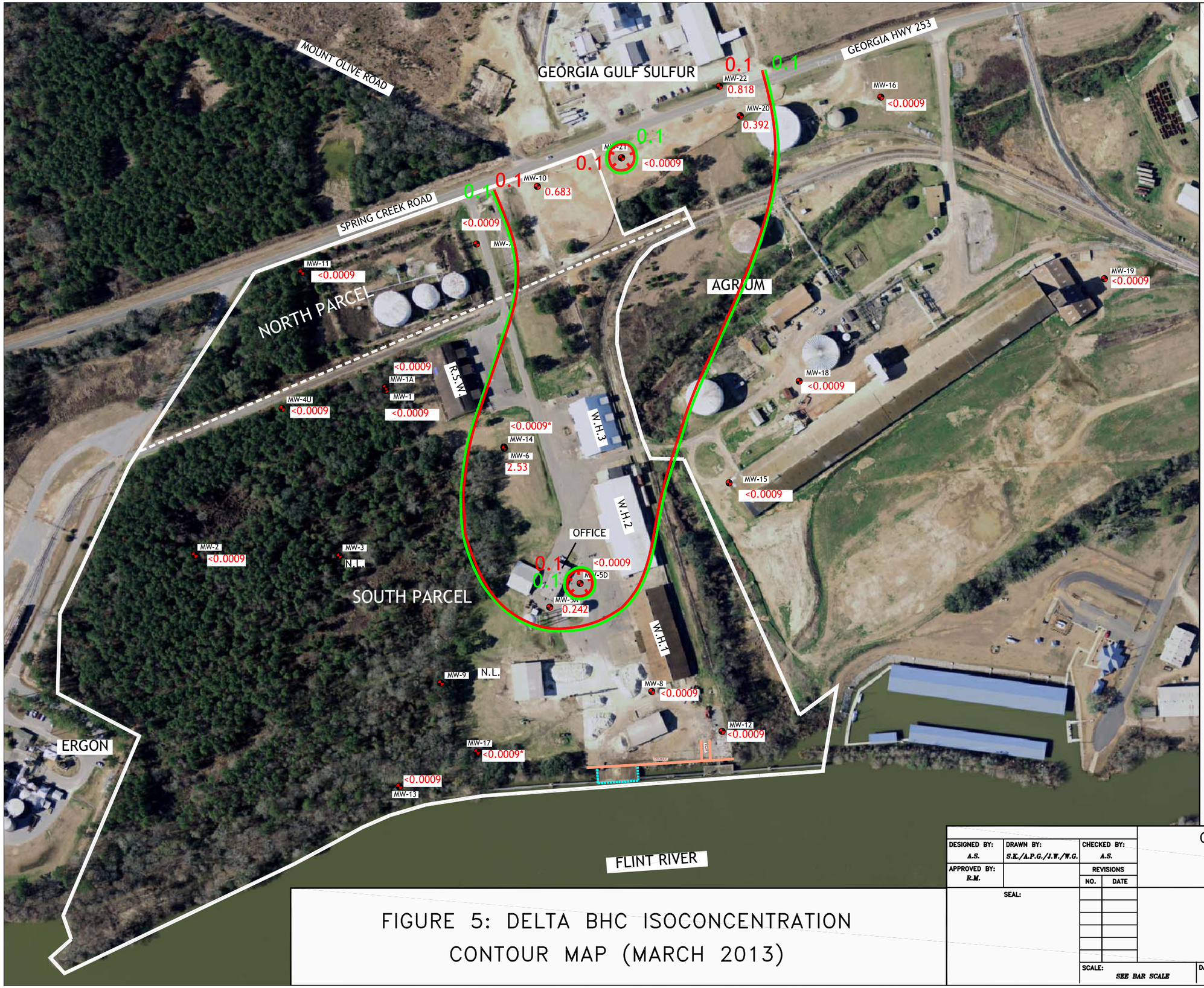
N

100 0 100 200 300

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 4: BETA BHC ISOCONCENTRATION CONTOUR MAP (MARCH 2013)

DESIGNED BY: A.S.	DRAWN BY: S.K. / P.G. / W.G.	CHECKED BY: A.S.	GEORGIA PORTS AUTHORITY BAINBRIDGE TERMINAL Bainbridge, Georgia
APPROVED BY: R.M.		REVISIONS NO. / DATE	
SEAL:			ENVIRONMENTAL INTERNATIONAL CORP. 161 KIMBALL BRIDGE ROAD ALPHARETTA, GEORGIA 30009
		SCALE: SEE BAR SCALE	DATE: 10/7/2013 — 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
0.818	BHC CONCENTRATION (ug/L)
J	TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTIATION LIMIT AND ABOVE THE DETECTION LIMIT
	TYPE 4 RRS LIMIT 0.1 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 5: DELTA BHC ISOCONCENTRATION CONTOUR MAP (MARCH 2013)

DESIGNED BY: A.S.	DRAWN BY: S.K./A.P.G./J.W./W.G.	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	9/23/2013	400007 – 4.5 – GPA BAINBRIDGE	

MOUNT OLIVE ROAD
GEORGIA GULF SULFUR
GEORGIA HWY 253
SPRING CREEK ROAD
NORTH PARCEL
AGRIUM
SOUTH PARCEL
ERGON
OFFICE
R.S.W.
W.H.1
W.H.2
W.H.3
SHEET PILE
PIER
FLINT RIVER

MW-22 < 0.024
MW-16 < 0.024
MW-20 < 0.024
MW-21 0.914 J
MW-10 < 0.024
MW-7 < 0.024
MW-11 1.14
MW-19 99.7
MW-18 114
MW-1A 8.77
MW-1 5.54
MW-4U 15.2
MW-14 0.0485 J*
MW-6 < 0.024
MW-15 337
MW-2 0.174 J
MW-3 N.L.
MW-5D 22.8
MW-5A 12.8
MW-9 N.L.
MW-8 19
MW-12 13
MW-17 2*
MW-13 < 0.024

150
180
210
240
270
300
330
120
90
60
30

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
114	NITRATE CONCENTRATION (mg/L)
J	TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTIATION LIMIT AND ABOVE THE DETECTION LIMIT
	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:

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)

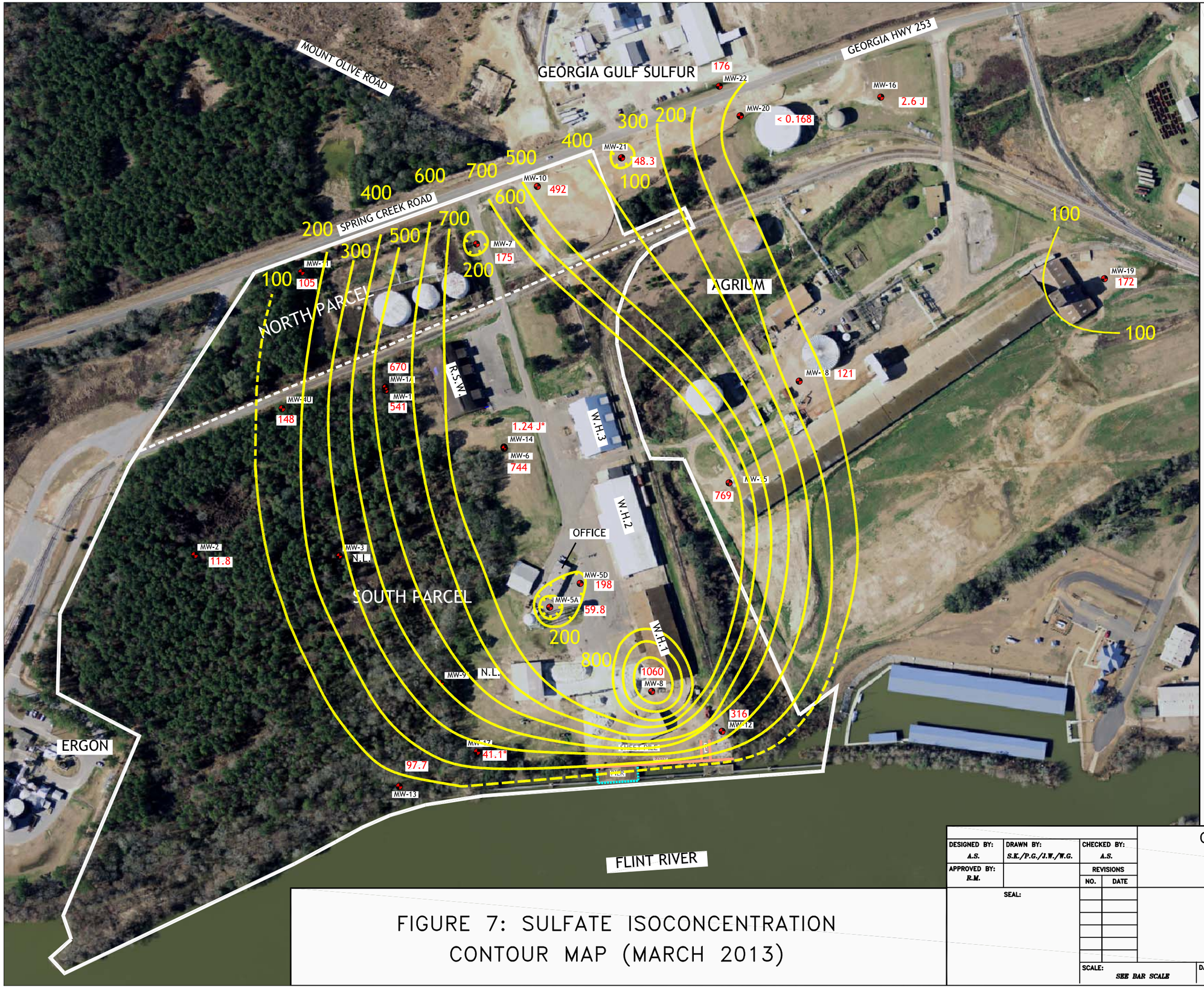
FIGURE 6: NITRATE ISOCONCENTRATION CONTOUR MAP (MARCH 2013)

DESIGNED BY: A.S.	DRAWN BY: S.K./A.P.G./J.W./W.G.	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	9/26/2013	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
172	SULFATE CONCENTRATION (mg/L)
J	TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTIATION 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
	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:

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 7: SULFATE ISOCONCENTRATION CONTOUR MAP (MARCH 2013)

DESIGNED BY: A.S.	DRAWN BY: S.K./P.G./J.W./W.G.	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	9/26/2013	400007 – 4.5 – GPA BAINBRIDGE	

ATTACHMENT A

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-1

DATE: 3/28/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: Fair, No cloudy, 33°F, low humidity, <5mph wind

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 19.5 FT. TO 29.5 FT.

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | WATER LEVEL (BTOC): 25.59 at 7:31 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" reflon-lined Tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA | BENEATH OUTER CAP: NA | BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED | WATER ANALYZER MODEL: Horiba U52 SERIAL NO:

ANALYTICAL PARAMETERS: 8081/8260B/6010C/8056A/RSK-175 | LABORATORY PERFORMING ANALYSIS: Xenco

Measured from high side (Marked on well with black marker)

from GS Depth = 23

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.)
7:54	0	12.08	3.61	465	0.394	4.3	4.89	25.60	clear, no odor
7:59	1180	16.24	3.48	536	0.410	2.3	4.01	25.60	"
8:04	2400	16.62	3.42	554	0.429	2.5	3.77	25.60	"
8:09	3660	16.74	3.55	561	0.443	1.8	3.57	25.60	"
8:14	~~4820~~ 4820	16.81	3.36	566	0.451	1.2	3.36	25.60	"
8:19	5840	16.93	3.41	569	0.458	0.9	3.09	25.60	"
8:24	7020	16.92	3.28	571	0.462	1.2	3.41	25.60	"
8:29	8200	16.97	3.38	572	0.464	1.1	2.98	25.60	"
8:34	9380	17.07	3.36	574	0.462	1.4	2.95	25.60	"

4820 (2160 mL)

COMMENTS ON WELL RECOVERY/OTHER:

SAMPLE COLLECTION TIME: 8:35

PREPARED BY: Shobhna Kondepudi

* 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.

* Refer to field Table A-1 for calculated purge volumes.

Length of tubing cut (ft.)	33.5
Initial tubing depth (ft.)	26.0
Final tubing depth (ft.)	26.0
Initial pump speed	13.45
Initial pump speed initialized at	7:52
Pump speed at initial flow into cylinder	7.98

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	8:02	8:11	8:20	8:28			

Additional remarks: Note: Stick-up well. Distance from Ground Surface to TOC = 2.5' ± 0.05

Outer casing Not locked. Cap in good condition, but appears old & could not be tightened

Note: Few air bubbles during purging.

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-1A

DATE: 3/28/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: Fair, 40°F, No clouds, Low humidity, <5mph wind.

WELL DIAMETER (IN.) ☐ 1 ☐ 2 ☒ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 23 FT. TO 33 FT.

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | WATER LEVEL (BTOC): 25.71 at 9:05 FT.

PURGING DEVICE: Pegasus Flexio Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon-lined tubing. ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED | WATER ANALYZER MODEL: Horiba U52 SERIAL NO:

ANALYTICAL PARAMETERS: 8081B/9060A/6010C/8058A/RSK-175 | LABORATORY PERFORMING ANALYSIS: Xenco

→ Measured from high side (towards railroad)

↓ 22.86 Below Ground Surface

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.)
9:23	0	12.09	3.58	455	0.433	2.8	5.49	25.71	Clear, no odor
9:28	1300	15.96	3.32	556	0.495	10.4	3.78	25.71	"
9:33	2420	16.15	3.41	568	0.506	4.0	3.10	25.71	"
9:38	3560	16.22	3.40	576	0.536	2.5	2.99	25.71	"
9:43	4680	16.43	3.42	579	0.544	1.4	2.92	25.71	"
9:48	5780	16.35	3.43	583	0.548	1.5	2.80	25.72	"

COMMENTS ON WELL RECOVERY/OTHER:

SAMPLE COLLECTION TIME: 9:49

PREPARED BY: Shobhna Kondepudi

* 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.

* Refer to field Table A-1 for calculated purge volumes.

Length of tubing cut (ft.)	~~35.85~~ → 36 feet
Initial tubing depth (ft.)	28
Final tubing depth (ft.)	28
Initial pump speed	13.41
Initial pump speed initialized at	9:20
Pump speed at initial flow into cylinder	7.99

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	9:31	9:40					

Additional remarks: Stick up well. Height of stick-up above G.S. is 2.85'. Well casing ~~Note~~: Cap in good condition.

Note: Few air bubbles in tubing during purging.

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-2

DATE: 3/28/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: Fair, 47°F, No clouds, low humidity, < 5 mph wind

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 13 FT. TO 23 FT.

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | WATER LEVEL (BTOC): 19.32 at 16:49 ~~FT.~~

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED | WATER ANALYZER MODEL: Horiba U52 SERIAL NO:

ANALYTICAL PARAMETERS: 8081B/9060A/6010C/9056A/RSK 175 | LABORATORY PERFORMING ANALYSIS: Xenco

Gauging from high point (east side)

About 16.5 Below G.S

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.)
17:15	0	18.66	5.29	421	0.070	2.6	6.62	19.35	Clear, no odor
17:20	1400	18.62	4.65	461	0.062	2.4	5.24	19.35	"
17:25	2600	18.56	4.60	479	0.061	2.4	4.99	19.35	"
17:30	3600	18.54	4.55	491	0.053	2.3	4.83	19.35	"
17:35	5400	18.49	4.52	497	0.050	2.3	4.63	19.35	"
17:40	6480	18.47	4.60	499	0.049	0.7	4.72	19.35	"

COMMENTS ON WELL RECOVERY/OTHER:

SAMPLE COLLECTION TIME: 17:41

PREPARED BY: Shobhna Kondepudi

* 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.

* Refer to field Table A-1 for calculated purge volumes.

Below G.S

Length of tubing cut (ft.)	28
Initial tubing depth (ft.) ~~BTO~~	20
Final tubing depth (ft.)	20
Initial pump speed	13.33
Initial pump speed initialized at	17:14
Pump speed at initial flow into cylinder	8.01

(2500mL)

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	17:24	17:32	17:38				

Total 2.85

Additional remarks: Stick-up well. Height of stickup ~~[illegible]~~ ~~2.58~~ 2.45 to the concrete pad. Dist btn top of pad & G.S = 0.4'

Well cap & casing in good condition

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-4U

DATE: 3/28/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: Fair, no clouds, low humidity

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 16 FT. TO 31 FT.

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | WATER LEVEL (BTOC): 23.91 at 10:23 FT. Gauging

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined Tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED | WATER ANALYZER MODEL: Horiba U52 SERIAL NO:

ANALYTICAL PARAMETERS: 8081B/9060A/6010C/9056A/RSK-175 | LABORATORY PERFORMING ANALYSIS: XenCO

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.)
10:46	0	14.51	3.91	529	0.264	1.1	4.09	23.94	Clear, no odor
10:51	1360	16.81	3.84	552	0.271	1.1	3.63	23.94	"
10:56	2620	16.30	3.83	555	0.269	7.4	3.32	23.93	"

point is black mark on west side of casing.

COMMENTS ON WELL RECOVERY/OTHER:

SAMPLE COLLECTION TIME: 10:57

PREPARED BY: Shobhna Kondepudi

* 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.

* Refer to field Table A-1 for calculated purge volumes.

Length of tubing cut (ft.)	32.5
Initial tubing depth (ft.)	26.5
Final tubing depth (ft.)	26.5
Initial pump speed	13.38
Initial pump speed initialized at	10:55
Pump speed at initial flow into cylinder	8.02

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	10:53						

Additional remarks: Stick up well. Height of stickup from groundsurface is 2.05'. Well casing & cap in good condition. Alan cut off the lock on the well.

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-5A

DATE: 3/26/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: Fair, No clouds, low humidity, 35°F, ~5mph NW wind.

WELL DIAMETER (IN.) ☐ 1 ☐ 2 ☒ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 16.5 FT. TO 26.5 FT.

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | WATER LEVEL (BTOC): 17.55 at 8:49 FT.

Measured from N-side

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA | BENEATH OUTER CAP: NA | BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED | WATER ANALYZER MODEL: Horiba U52 | SERIAL NO:

ANALYTICAL PARAMETERS: 8081B/8260A/6010C/8056A/RSK-175 | LABORATORY PERFORMING ANALYSIS: Xenco

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.)
8:58	0	15.66	5.20	481	0.235	6.9	6.36	17.56	Clear, no odor. Small air bubbles initially
9:03	1240	19.32	4.50	578	0.229	4.3	5.81	17.57	
9:08	2400	19.78	4.40	563	0.238	4.1	5.23	17.56	
9:13	3620	20.04	4.37	569	0.264	3.9	5.02	17.55	
9:18	~~4640~~ 4640	19.98	4.34	572	0.296	3.1	4.59	17.56	
9:23	~~5040~~ 5440	20.07	4.34	573	0.305	2.7	4.42	17.56	
9:28	6600	20.13	4.35	574	0.316	2.8	4.30	17.56	
9:33	7780	20.45	4.33	577	0.321	2.8	4.21	17.56	

COMMENTS ON WELL RECOVERY/OTHER:

SAMPLE COLLECTION TIME: 9:34

PREPARED BY: Shobhna Kondepudi

* 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.

* Refer to field Table A-1 for calculated purge volumes.

Length of tubing cut (ft.)	25
Initial tubing depth (ft.)	22
Final tubing depth (ft.)	22
Initial pump speed	13.56
Initial pump speed initialized at	8:56
Pump speed at initial flow into cylinder	7.51

speed at 9:24 was (7.33). (2400mL)

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	9:06	9:17	9:25				

Additional remarks: All 3 bolts present & bolted down on well vault lid.

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-5D

DATE: 3/26/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: Fair, No clouds, 35°F, Low humidity, <2mph wind (at sunrise)

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 15 FT. TO 25 FT.

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | WATER LEVEL (BTOC): 16.96 at 7:14 FT. → Measured on high side.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED | WATER ANALYZER MODEL: Horiba U-52 SERIAL NO:

ANALYTICAL PARAMETERS: 8081B/8060A/6010C/8056A/RSK-175 | LABORATORY PERFORMING ANALYSIS: Xenco

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.)
7:37	0	12.91	8.31	309	7.44	107	4.77	17.08	Slight brown tint with some organic matter/lth./grass.
7:42	1540	18.25	8.53	217	3.79	46.9	2.04	17.08	
7:47	3440	20.29	8.36	203	2.88	22.6	1.43	17.07	Natural odor.
7:52	~~5160~~ 5160	20.38	8.12	213	2.55	11.2	1.20	17.07	Very very slight chemical odor.
7:57	7000	20.04	7.92	223	2.40	6.7	1.08	17.07	
8:02	8600	19.46	7.87	226	2.38	4.6	1.05	17.04	
8:07	9640	19.39	7.79	231	2.35	3.8	0.89	17.04	
8:12	10080	19.30	7.76	234	2.28	3.5	0.91	17.04	
8:17	~~12560~~	19.39	7.70	237	2.24	3.2	0.88	17.04	
	12360								

COMMENTS ON WELL RECOVERY/OTHER:

SAMPLE COLLECTION TIME: 8:18

PREPARED BY: Shobhna Kondepudi

* 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.

* Refer to field Table A-1 for calculated purge volumes.

Length of tubing cut (ft.)	24
Initial tubing depth (ft.)	21
Final tubing depth (ft.)	21
Initial pump speed	10.01
Initial pump speed initialized at	7:36
Pump speed at initial flow into cylinder	10.01

→ Reduced speed to 8.05 at 7:58 (Volume was at ~~7600~~ 7600 mL when speed changed.) (2040mL)

2,000 mL volume poured into bucket	Time	Time	Time	Time	Time	Time	Time
	7:43	7:48	7:54	8:00	8:08	8:15	

Additional remarks: Pad is damaged - cracked bad. Vault lid & top (whole) came off in one piece: well can damaged/deformed & difficult to remove from well casing. Well casing itself is fine. In this condition, surface sands & sediments can go in the well.

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-6

DATE: 3/26/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: Fair, Few scattered clouds, 46°F, Low humidity, <5 mph NE wind

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 47 FT. TO 52 FT.

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | WATER LEVEL (BTOC): 22.72 at 13:54 FT. → Measured from North (High side) of well

PURGING DEVICE: Pegasus Flexio Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☑ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED | WATER ANALYZER MODEL: Horiba U52 SERIAL NO:

ANALYTICAL PARAMETERS: 8081B/8011A/6010C/7196A/RSK-175 | LABORATORY PERFORMING ANALYSIS: Xenco

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.)
14:04	0	15.49	4.67	303	1.47	38.4	4.60	23.88	Clear, no odor → Air bubbles in beginning
14:09	1240	18.34	5.67	236	1.55	28.6	1.72	24.69	Slight brown tint
14:14	2720	18.77	5.68	223	1.63	15.7	1.20	25.15	
14:19	4160	19.22	5.71	222	1.69	15.9	1.00	25.35	
14:24	5520	19.18	5.54	230	1.74	10.7	0.88	25.42	
14:29	6880	19.38	5.56	238	1.76	12.8	0.81	25.43	
14:34	8240	19.38	5.49	241	1.75	11.7	0.79	25.43	

COMMENTS ON WELL RECOVERY/OTHER:

SAMPLE COLLECTION TIME: 14:36

PREPARED BY: Shabbna Kondepudi

* 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.

* Refer to field Table A-1 for calculated purge volumes.

Length of tubing cut (ft.)	52.5
Initial tubing depth (ft.)	49.5
Final tubing depth (ft.)	49.5
Initial pump speed	13.37
Initial pump speed initialized at	14:03
Pump speed at initial flow into cylinder	10:00

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	14:11	14:18	14:25	14:33			

Additional remarks: Well has only 2 bolts but appears to be in good condition otherwise. well has little bit of water, well casing and cap in good condition. well is straight. Very few air bubbles after speed reduced to (10). The pump was vibrating a lot due to excess strain.

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-7

DATE: 3/27/2013 | PROJECT NAME: GA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: Fair, no clouds, 35°F, low humidity, <5 mph wind

WELL DIAMETER (IN.): ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 15 FT. TO 26 FT.

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | WATER LEVEL (BTOC): 18.43 at 7:35 FT. → Measured from S-side (High pt. on casing)

PURGING DEVICE: Regasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED | WATER ANALYZER MODEL: Horiba U51 SERIAL NO:

ANALYTICAL PARAMETERS: 8081B / 9056A / 9060A / 6010C / RSK175 | LABORATORY PERFORMING ANALYSIS: Xenco

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.)
7:52	20	15.62	5.46	316	0.356	125	2.99	18.44	Cloudy, brown colored silty. No odor. Few air bubbles in tubing
7:57	1200	17.77	5.05	366	0.380	35.5	2.47	18.44	
8:02	2460	18.46	4.78	400	0.391	28.2	2.06	18.44	
8:07	3580	18.74	4.55	417	0.405	17.7	1.93	18.44	
8:12	4500	18.91	4.43	430	0.416	12.3	1.85	18.45	
8:17	5600	18.93	4.41	435	0.412	9.9	1.81	18.44	Water is clear with slight brown tint. No odor.
8:22	6120	18.94	4.41	440	0.413	9.0	1.82	18.44	

COMMENTS ON WELL RECOVERY/OTHER:

SAMPLE COLLECTION TIME: 8:23

PREPARED BY: Shobhna Koadepudi

* 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.

* Refer to field Table A-1 for calculated purge volumes.

Length of tubing cut (ft.)	25
Initial tubing depth (ft.)	22
Final tubing depth (ft.)	21
Initial pump speed	13.55
Initial pump speed initialized at	7:44
Pump speed at initial flow into cylinder	7.52

Large amount of dirt in tubing clogging silicone tubing. Man cleared the clog → Tubing depth set at 21 ft at 7:48. Turned pump on & off several times to clear clog of solids in silicone of pump. Turned pump back on at 7:51.

(2060mL) (2300mL) (2060mL)

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	8:00	8:11	8:20				

Additional remarks: Concrete pad in good condition. The two bolts on the well vault lid are intact. Well casing in good condition. Well cap was loose.

130° 3½

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-8

DATE: 3/26/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: Fair, No clouds, low humidity, 47°F, 5mph N-W wind

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 12 FT. TO 23 FT.

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | WATER LEVEL (BTOC): 14.90 at 11:10 FT. Measured on N side

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED | WATER ANALYZER MODEL: Horiba U-52 SERIAL NO:

ANALYTICAL PARAMETERS: 8081B/9060A/6010C/9056A/RSK175 | LABORATORY PERFORMING ANALYSIS: Xenco

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.)
11:19	0	17.85	3.97	609	1.48	4.3	7.14	14.61	Air bubbles in beginning clear, no odor
11:24	1380	19.59	3.66	609	1.54	4.0	5.92	14.62	Clear, no odor
11:29	2700	19.97	3.64	607	1.55	2.6	5.44	14.61	"
11:34	4000	20.10	3.64	606	1.55	1.4	5.26	14.61	"

COMMENTS ON WELL RECOVERY/OTHER:

SAMPLE COLLECTION TIME: 11:35

PREPARED BY: Shobhna Kondepudi

* 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.

* Refer to field Table A-1 for calculated purge volumes.

Length of tubing cut (ft.)	22.0
Initial tubing depth (ft.)	19.0
Final tubing depth (ft.)	19.0
Initial pump speed	13.40
Initial pump speed initialized at	11:18
Pump speed at initial flow into cylinder	~~18~~ → 7.46

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	11:26	11:34					

Additional remarks: Well has no bolts, rusted. But well cap in good condition/concrete pad in excellent condition. Vault was filled with water and had to be bailed out.

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-10

DATE: 3/27/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: Fair, 37°F, No clouds, low humidity, 5 mph N-wind

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 20 FT. TO 30 FT.

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | WATER LEVEL (BTOC): 20.25 at 10:10 FT.

Measured from direction towards the road.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined Tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED | WATER ANALYZER MODEL: Horiba U-52 SERIAL NO:

ANALYTICAL PARAMETERS: 8081B/9060A/6010C/9056A/RSK-175 | LABORATORY PERFORMING ANALYSIS: Xenco

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	14.92	3.77	541	0.947	8.7	3.43	20.68	Clear, inconclusive odor
10:24	1020	17.14	3.52	544	0.942	4.3	2.92	20.75	Very few air bubbles in tube
10:29	2100	17.69	3.50	542	0.937	3.0	2.58	20.79	
10:34	3120	17.82	3.48	542	0.931	2.1	2.37	20.81	

First half inch of organic material

due to strong sulfur odor in air

COMMENTS ON WELL RECOVERY/OTHER:

SAMPLE COLLECTION TIME: 10:36

PREPARED BY: Shobhna Kondepudi

* 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.

* Refer to field Table A-1 for calculated purge volumes.

Length of tubing cut (ft.)	28
Initial tubing depth (ft.)	25
Final tubing depth (ft.)	25
Initial pump speed	13.43
Initial pump speed initialized at	10:17
Pump speed at initial flow into cylinder	7.50

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	10:28						

Additional remarks: Well's concrete pad is heavily damaged. Well casing broken on the E-side, otherwise it is in good condition. ~~Half inch~~ Few air bubbles while purging.

Well has only 2 bolts.

** Note: Strong sulfur (from Georgia Gulf Sulfur) in the air.

Note: No cap on well. Well vault has only 2 bolts.

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-11

DATE: 3/28/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: Fair, 45°F, <5mph wind, no clouds, low humidity

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 17 FT. TO 27 FT.

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | WATER LEVEL (BTOC): 21.04 at 12:10 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED | WATER ANALYZER MODEL: Horiba U52 SERIAL NO:

ANALYTICAL PARAMETERS: 8081B/9060A/6010C/9056A/PSK/35 | LABORATORY PERFORMING ANALYSIS: Xenco

→ Measured from direction towards the road

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.)
12:27	0	16.43	3.84	460	0.198	20.9	5.73	21.07	Slightly cloudy with a brown tint. no odor
12:32	1340	18.02	3.60	532	0.207	9.3	4.28	21.08	
12:37	2620	18.14	3.65	540	0.204	5.3	4.13	21.08	
12:42	3840	18.14	3.56	549	0.203	3.9	3.96	21.08	

→ few organic materials & bubbles in the beginning

COMMENTS ON WELL RECOVERY/OTHER:

SAMPLE COLLECTION TIME: 12:43

PREPARED BY: Shobhna Kondepudi

* 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.

* Refer to field Table A-1 for calculated purge volumes.

Length of tubing cut (ft.)	27
Initial tubing depth (ft.)	24
Final tubing depth (ft.)	24
Initial pump speed	13:35
Initial pump speed initialized at	12:25
Pump speed at initial flow into cylinder	7.98

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	12:34	12:43					

Additional remarks: Flush-to-grade well. Well concrete pad in excellent condition. Well has 3 bolts in place, all in good condition

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-12

DATE: 3/26/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400002

WEATHER CONDITIONS: Fair, no clouds, 35°F, low humidity, wind 5 mph N-wind.

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 12 FT. TO 22 FT.

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | WATER LEVEL (BTOC): 15.67 at 10:02 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED | WATER ANALYZER MODEL: Horiba U52 SERIAL NO:

ANALYTICAL PARAMETERS: 8081B/9060A/0010C/905EA/RSL | LABORATORY PERFORMING ANALYSIS: Xenco

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.)
10:15	0	16.08	5.79	527	0.874	2.8	4.74	15.67	Clear, slight chemical odor.
10:20	1220	18.07	5.63	509	0.859	1.9	2.94	15.67	"
10:25	2400	18.30	5.58	502	0.861	0.0	3.14	15.66	"
10:30	~~2580~~ 3580	18.80	5.52	505	0.867	0.2	3.26	15.67	"
10:35	4600	18.79	5.50	508	0.860	0.0	3.47	15.67	"

COMMENTS ON WELL RECOVERY/OTHER:

SAMPLE COLLECTION TIME: 10:36

PREPARED BY: Shobhna Kondepudi

* 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.

* Refer to field Table A-1 for calculated purge volumes.

Length of tubing cut (ft.)	22
Initial tubing depth (ft.)	19
Final tubing depth (ft.)	19
Initial pump speed	13.37
Initial pump speed initialized at	10:13
Pump speed at initial flow into cylinder	7.48

(2160 mL)

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	10:24	10:32					

Additional remarks:

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-13

DATE: 3/27/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: Fair, 50°F, <5mph wind, low humidity, No clouds

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 12 FT. TO 22 FT.

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | WATER LEVEL (BTOC): 15.02 at 15:40 FT

Measured from high side (North west direction)

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined Tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED | WATER ANALYZER MODEL: Horiba U52 SERIAL NO:

ANALYTICAL PARAMETERS: 8081B/9060A/6010C/8082A/RSK175 | LABORATORY PERFORMING ANALYSIS: Xenco

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.)
15:58	0	17.12	4.78	337	0.503	53.2	2.16	15.06	Slightly cloudy with a brown tint & mild sulfur odor
16:03	1340	17.36	4.69	212	0.470	7.9	1.40	15.06	
16:08	2640	17.46	4.66	210	0.422	2.7	1.30	15.06	
16:13	3980	17.53	4.63	202	0.407	2.0	1.35	15.06	
16:18	5300	17.55	4.62	197	0.399	1.8	1.38	15.06	
16:23	6620	17.64	4.64	192	0.396	1.9	1.37	15.06	

Clear few solids, bubbles in begin

COMMENTS ON WELL RECOVERY/OTHER:

SAMPLE COLLECTION TIME: 16:24

PREPARED BY: Sheilina Kondepudi

* 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.

* Refer to field Table A-1 for calculated purge volumes.

Length of tubing cut (ft.)	21.5
Initial tubing depth (ft.)	18.5
Final tubing depth (ft.)	16.5
Initial pump speed	7.5
Initial pump speed initialized at	15:55
Pump speed at initial flow into cylinder	7.5

→ Hit bottom at 17.2'. Raised tubing by 1 foot ⇒ Tubing depth at 15:54 = 16 feet. Lowered by ½ feet ⇒ Tubing dept at 15:57 = 16.5'.

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	16:05	16:13	16:20				

Additional remarks: Well Concrete pad in Excellent condition & well vault & well cap also in Excellent condition.

~~→ Hit bottom at~~

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-14

DATE: 3/26/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: Fair, low humidity; scattered clouds, 46°F, 5mph N-wind

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 67 FT. TO 72 FT.

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | WATER LEVEL (BTOC): 23.39 at 14:53 ET → Measured from N-side

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED | WATER ANALYZER MODEL: Horiba U52 SERIAL NO:

ANALYTICAL PARAMETERS: 8081B/8260B/8015C/9056A/1312 | LABORATORY PERFORMING ANALYSIS: Xenco

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.)
15:14	0	17.08	6.14	319	0.271	50.1	6.04	23.21	Clear, Slight pesticide odor, → Some organic matter in start of pump
15:19	1400	19.27	7.53	-3	0.264	40.7	1.47	24.14	
15:24	2920	20.00	7.38	-19	0.256	53.8	1.15	24.43	Slight brown tint
15:29	4340	20.06	7.23	-20	0.248	44.3	0.99	24.52	Still has chemical odor.
15:34	5860	20.07	7.11	-20	0.241	29.4	0.08	24.57	
15:39	7240	20.16	7.08	-20	0.237	21.6	0.83	24.57	
15:44	8600	20.13	7.05	-19	0.234	15.8	0.79	24.57	

COMMENTS ON WELL RECOVERY/OTHER:

SAMPLE COLLECTION TIME: 15:46

PREPARED BY: Shoshana Kondeparedi

* 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.

* Refer to field Table A-1 for calculated purge volumes.

Length of tubing cut (ft.)	72.5
Initial tubing depth (ft.)	69.5
Final tubing depth (ft.)	69.5
Initial pump speed	13.42
Initial pump speed initialized at	15:12
Pump speed at initial flow into cylinder	10.00

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	15:20	15:27	15:34	15:41			

NOTE: ** Additional remarks: Well vault has only one bolt. Vault filled with water completely. Bailed out the water from vault. Vibration in pump (lots). Bluish tint to water that was purged - in the bucket as well as the cylindrical flask. Bluish tint is becoming more prominent.

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-15

DATE: 3/25/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: Fair, No clouds, 55°F, ~5mph NW Wind, Low humidity

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 13 FT. TO 23 FT.

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | WATER LEVEL (BTOC): 18.97 at 14:10 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon-lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED | WATER ANALYZER MODEL: Horiba U52 SERIAL NO:

ANALYTICAL PARAMETERS: 8081B/8260B/6010C/7058(A)/RSK-175 | LABORATORY PERFORMING ANALYSIS: Xenco

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.)
14:34	0	17.16	5.96	377	7.97	873	2.63	19.17	Leading edge had (just starting) Mud dark brown (slow)
14:39	~~330~~	18.55	5.82	317	8.03	407	1.77	19.17	clear water after, time)
14:44	1480	18.96	5.68	301	8.29	166	1.35	19.17	Slight pesticide odor.
14:49	2220	19.23	5.61	295	8.48	160	1.13	19.16	
14:54	3220	19.36	5.58	291	8.57	152	1.01	19.15	
14:59	3900	19.49	5.56	287	8.56	154	0.96	19.15	

780

COMMENTS ON WELL RECOVERY/OTHER:

SAMPLE COLLECTION TIME: 15:01

PREPARED BY: Shobhna Kondepudi

* 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.

* Refer to field Table A-1 for calculated purge volumes.

Length of tubing cut (ft.)	24
Initial tubing depth (ft.)	21
Final tubing depth (ft.)	~~18~~ 19.66
Initial pump speed	4.98
Initial pump speed initialized at	14:29
Pump speed at initial flow into cylinder	4.98

Note: Hit bottom at 19'2". Readjusted tubing depth accordingly

Note: Well casing pad & vault are destroyed/gone only 2 inch casing available & that is deformed.

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	14:47						

Additional remarks: Note: cut off half inch of tubing that hit bottom. Gauging on N-side. Alan put a rock over the well to protect casing & to mark location at 15:55.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-16

DATE: 3/27/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 60000 ~~7~~

WEATHER CONDITIONS: Fair, No clouds, 36°F, low humidity, < 5mph W-wind.

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 4 FT. TO 24 FT.

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | WATER LEVEL (BTOC): 17.42 at 9:09 FT.

Measured from the direction towards the road.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED | WATER ANALYZER MODEL: Horiba U52 SERIAL NO:

ANALYTICAL PARAMETERS: 8081B/8260A/6010C/9056A/RSK-175 | LABORATORY PERFORMING ANALYSIS: Xenco

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	10.98	5.26	457	0.032	15.9	11.82	17.44	Clear, no odor
9:24	1040	14.97	4.95	481	0.027	16.4	9.93	17.44	"
9:29	2220	15.99	4.91	494	0.028	17.7	9.33	17.44	"
9:34	3400	16.47	4.85	503	0.027	16.8	8.83	17.44	"

COMMENTS ON WELL RECOVERY/OTHER:

SAMPLE COLLECTION TIME: 9:35

PREPARED BY: Shobhna Kondapudi

* 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.

* Refer to field Table A-1 for calculated purge volumes.

Length of tubing cut (ft.)	24
Initial tubing depth (ft.)	21
Final tubing depth (ft.)	21
Initial pump speed	13.53
Initial pump speed initialized at	9:18
Pump speed at initial flow into cylinder	7.49

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	9:28						

Additional remarks: Well has all bolts & in good condition. Well casing in good condition. Well has some water in vault. Vault filled with dist as a fire ant mound was on top of the well.

(XX) Note: Need to bring a new well cap for this well as it is extremely difficult to put it back on.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-17

DATE: 3/26/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: fair, Afew scattered clouds, low humidity, 47°F, 5mph N-wind

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 50 FT. TO 60 FT.

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | WATER LEVEL (BTOC): 14.48 at 13:00 FT. → Measured from high side (East side)

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED | WATER ANALYZER MODEL: Horiba U-52 SERIAL NO:

ANALYTICAL PARAMETERS: 8081B/9056A/9060A/6010C/CSK 175 | LABORATORY PERFORMING ANALYSIS: Xenco

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	15.49	6.89	453	0.142	47.8	4.74	14.49	Clear, no odor. → Air bubbles in beginning
13:17	1680	17.76	7.39	413	0.423	15.8	1.72	14.49	Slight brown tint in water.
13:22	3520	18.22	7.39	398	0.438	26.4	1.23	14.49	Slight brown tint in water
13:27	5300	18.35	7.38	388	0.434	13.6	1.01	14.49	"

COMMENTS ON WELL RECOVERY/OTHER:

SAMPLE COLLECTION TIME: 13:28

PREPARED BY: Shobhna Kondepudi

* 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.

* Refer to field Table A-1 for calculated purge volumes.

Length of tubing cut (ft.)	~~60~~ → 58
Initial tubing depth (ft.)	55
Final tubing depth (ft.)	55
Initial pump speed	13.43
Initial pump speed initialized at	13:10
Pump speed at initial flow into cylinder	7.48 → increased to 10.03 at 13:13

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	13:17	13:23					

Additional remarks: Well in good condition (pad & bolt), but missing bolts & casing is bent and cap in good condition.

Note: Small amount of light brown organic matter in samples

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-18

DATE: 3/25/2013 | PROJECT NAME: GDA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: Fair, No clouds, 42°F, 5 mph N-Wind, Low humidity

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 22 FT. TO 32 FT.

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | WATER LEVEL (BTOC): 16.17 at 10:31 FT. → with tube in well.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☒ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: Teflon lined tubing 1/4" ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED | WATER ANALYZER MODEL: Horiba U52 SERIAL NO:

ANALYTICAL PARAMETERS: 8081B; 9060A; 6010C; 9056A; RSK-175 | LABORATORY PERFORMING ANALYSIS: Xenco

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.)
10:10	0	18.49	6.43	232	2.26	1.6	5.69	16.17	Clear, very Few air bubbles. Slight chemical/pesticide odor
10:15	1000	19.09	6.45	244	2.22	1.6	2.29	16.17	Clear, no color
10:20	1800	19.48	6.44	250	2.19	2.2	1.70	16.17	"
10:25	2620	19.68	6.45	252	2.18	6.9	1.43	16.16	"
10:30	3240	19.85	6.44	254	2.18	10.9	1.29	16.16	"

COMMENTS ON WELL RECOVERY/OTHER:

SAMPLE COLLECTION TIME: 10:32

PREPARED BY: Shobhna Kondepudi

* 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.

* Refer to field Table A-1 for calculated purge volumes.

Length of tubing cut (ft_s)	29.5
Initial tubing depth (ft.)	27.0
Final tubing depth (ft.)	27.0
Initial pump speed	13.42
Initial pump speed initialized at	10:08
Pump speed at initial flow into cylinder	5.04

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	10:22						

Additional remarks: Tubing did not hit well bottom. Measured relative to N-side as no mark present on well. Hit obstruction at around 5 ft BTOC.

NOTE: One duplicate sample set taken at 10:50. One equipment blank noted

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-19

DATE: 3/25/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: Fair, No clouds, 52°F, wind 5-10mph N-Wind, Low humidity

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 22 FT. TO 32 FT.

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | WATER LEVEL (BTOC): 17.20 at 11:54 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon-Lined Tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED | WATER ANALYZER MODEL: Horiba U52 SERIAL NO:

ANALYTICAL PARAMETERS: 8081B/8260A/6010C/9056A/RSK175 | LABORATORY PERFORMING ANALYSIS: Xenco

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.)
12:19	0	18.01	4.20	404	1.24	2.8	3.57	17.21	Clear, few air bubbles no odor
12:24	700	18.63	4.03	426	1.26	2.1	2.05	17.21	Clear, no odor
12:29	1760	18.99	4.00	436	1.27	1.3	1.63	17.21	"
12:34	2260	18.71	4.00	437	1.27	1.1	1.35	17.22	"

COMMENTS ON WELL RECOVERY/OTHER:

SAMPLE COLLECTION TIME: 12:35

PREPARED BY: Shobhna Kondepudi

* 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.

* Refer to field Table A-1 for calculated purge volumes.

Length of tubing cut (ft.)	32
Initial tubing depth (ft.)	19
Final tubing depth (ft.)	19
Initial pump speed	106
Initial pump speed initialized at	12:17
Pump speed at initial flow into cylinder	5.00

(2060 mL)

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	12:32						

Additional remarks: Measured gauging depth from N. side. Hit bottom of well at 22 ± 0.1 ft BTOC. Cut off an inch of tubing at bottom as it hit bottom & may have been contaminated.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-20

DATE: 3/27/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400002

WEATHER CONDITIONS: Fair, 51°F, No clouds, low humidity, < 5mph N-E wind.

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 22 FT. TO 32 FT.

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | WATER LEVEL (BTOC): 16.89 at 13:17 FT. → Measuring on the direction towards the road

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

Lab preserved

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☒ FIELD PRESERVED | WATER ANALYZER MODEL: Horiba U-5 SERIAL NO:

ANALYTICAL PARAMETERS: 8081B/9060A/6010C/9056A/~~[illegible]~~ 125 | LABORATORY PERFORMING ANALYSIS: Xenco

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	15.98	4.67	450	0.205	83.1	8.67	16.88	Clear, slight
13:32	1200	17.74	4.17	512	0.207	8.7	7.88	16.89	chemical odor
13:37	2480	18.65	4.15	524	0.206	6.3	7.28	16.89	
13:42	3660	19.11	4.10	530	0.211	4.4	6.82	16.88	

→ Slight brown tint in the beginning

COMMENTS ON WELL RECOVERY/OTHER: | SAMPLE COLLECTION TIME: 13:43

PREPARED BY: Shobhre Kondepudi

* 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.

* Refer to field Table A-1 for calculated purge volumes.

Length of tubing cut (ft.)	~~30~~ → 31
Initial tubing depth (ft.)	27
Final tubing depth (ft.)	27
Initial pump speed	13.45
Initial pump speed initialized at	13:26
Pump speed at initial flow into cylinder	7.48

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	13:35						

Additional remarks: Well concrete pad in a decent condition (slightly cracked). Big Fire ant bed on the S-E side of the well. Well cap appears to be new/good condition. Vault is filled with ~~dist~~. slight grass. Casing in good condition. few air bubbles during purging.

(**) Note: No sulfur odor in the air

NOTE: Collected an extra sample (1 liter bottle for organochlorine pesticides analysis) at 13:50.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-21

DATE: 3/27/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: Fair, No clouds, low humidity, 47°F, 5mp N-wind

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 22 FT. TO 32 FT.

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | WATER LEVEL (BTOC): 17.84 at 11:12 FT.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED | WATER ANALYZER MODEL: Horiba U5 SERIAL NO:

ANALYTICAL PARAMETERS: 8015B/8260B/6010C/9056A/RSK-175 | LABORATORY PERFORMING ANALYSIS: Xenco

Measured from the direction of the road.

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.)
11:21	0	15.11	4.96	516	0.186	18.8	8.26	17.83	Clear, no odor
11:26	1240	17.56	4.80	511	0.181	16.0	7.52	17.84	Cloudy water. → Slightly
11:31	2500	18.14	4.80	509	0.180	8.7	7.04	17.84	
11:36	3720	18.39	4.77	511	0.181	5.1	6.95	17.84	

COMMENTS ON WELL RECOVERY/OTHER:

SAMPLE COLLECTION TIME: 11:37

PREPARED BY: Shailina Kondepudi

* 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.

* Refer to field Table A-1 for calculated purge volumes.

Length of tubing cut (ft.)	30
Initial tubing depth (ft.)	27
Final tubing depth (ft.)	27
Initial pump speed	13.40
Initial pump speed initialized at	11:19
Pump speed at initial flow into cylinder	7.49 → Speed at 11:25 is 7.46.

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	11:29						

Additional remarks: Concrete pad in good condition. Well vault lid had one of two bolts. Well Vault filled with water and Alan bailed it out. Fire ant bed on the S-E side of vault. Few air bubbles during purging.

(XX) Note: No Sulfur in air during purging.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-22

DATE: 3/27/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400002

WEATHER CONDITIONS: Fair, 47°F, No clouds, low humidity, 5mph N wind

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 24 FT. TO 34 FT.

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | WATER LEVEL (BTOC): 19.14 at 14:27 FT.

Measured from direction opposite the road.

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☒ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED | WATER ANALYZER MODEL: Horiba U52 SERIAL NO:

ANALYTICAL PARAMETERS: 8081B/9060A/6010C/9056A/RSK 175 | LABORATORY PERFORMING ANALYSIS: Xenco

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.)
14:38	0	19.23	3.72	569	0.403	24.0	5.01	19.20	Clear, slight chemical odor
14:43	1040	20.76	3.61	568	0.403	34.2	4.43	19.20	
14:48	2260	21.08	3.60	565	0.406	29.1	4.05	19.19	
14:53	3400	21.10	3.60	565	0.402	20.3	4.00	19.20	

Very slight brown tint in beginning of purging (chemical/pesticide)

COMMENTS ON WELL RECOVERY/OTHER:

SAMPLE COLLECTION TIME: 14:54

PREPARED BY: Shobhna Kondapudi

* 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.

* Refer to field Table A-1 for calculated purge volumes.

Length of tubing cut (ft.)	33
Initial tubing depth (ft.)	29
Final tubing depth (ft.)	29
Initial pump speed	13.44
Initial pump speed initialized at	14:36
Pump speed at initial flow into cylinder	7.49

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	14:46						

Additional remarks: Well in excellent condition. Well has 2 bolts (both present). Well cap slightly loose. Well casing excellent condition.

(XX) Note: Slight sulfur odor in air.

(X) NOTE: Extra sample (1 liter) of well MW-22 collected for organochlorine pesticide analysis at ~~14:54~~ 15:00

ATTACHMENT B

Analytical Report 459923

for

Environmental International Corporation

Project Manager: Alan Sanders

GPA Bainbridge

400007

02-APR-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 (T104704215-10-6-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)

02-APR-13

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

Reference: XENCO Report No(s): **459923**
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) 459923. 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. 459923 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,

Dijana Piljak

Dijana Piljak
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 459923

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-18	W	03-25-13 10:32		459923-001
MW-18 Duplicate	W	03-25-13 10:50		459923-002
MW-19	W	03-25-13 12:35		459923-003
MW-15	W	03-25-13 15:01		459923-004

Project ID:	*400007*	Report Date:	*02-APR-13*
Work Order Number(s):	*459923*	Date Received:	*03/26/2013*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-909900 Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A

1) Nitrate-N for samples: MW-18, MW-18 Duplicate, and MW-19 were originally analyzed on the day of receipt, but all results were outside the calibration range (high). By the time appropriate dilutions were performed, so that results were obtained within the calibration curve, holding time was exceeded by approx two hours for the MW-18 samples and one hour for the MW-19 sample.

XENCO Laboratories
Florida Testing Services, LLC

Certificate of Analytical Results 459923

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-18** Matrix: Water Date Received: 03.26.13 09.40

Lab Sample Id: **459923-001** Date Collected: 03.25.13 10.32

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

Tech: BLF % Moisture:

Analyst: NTR Date Prep: 03.26.13 12.20

Seq Number: 909900

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**67.6**	50.0	1.04	mg/L	03.27.13 12.04	D	10
Nitrate as N	14797-55-8	**114**	25.0	0.600	mg/L	03.27.13 12.22	DK	25
Sulfate	14808-79-8	**121**	50.0	1.68	mg/L	03.27.13 12.04	D	10

XENCO Laboratories
Florida Testing Services, LLC

Certificate of Analytical Results 459923

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-18 Duplicate** Matrix: Water Date Received: 03.26.13 09.40

Lab Sample Id: **459923-002** Date Collected: 03.25.13 10.50

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

Tech: BLF % Moisture:

Analyst: NTR Date Prep: 03.26.13 12.20

Seq Number: 909900

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**70.5**	50.0	1.04	mg/L	03.27.13 12.39	D	10
Nitrate as N	14797-55-8	**145**	25.0	0.600	mg/L	03.27.13 12.57	DK	25
Sulfate	14808-79-8	**125**	50.0	1.68	mg/L	03.27.13 12.39	D	10

XENCO Laboratories
Florida Testing Services, LLC

Certificate of Analytical Results 459923

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-19** Matrix: Water Date Received: 03.26.13 09.40

Lab Sample Id: **459923-003** Date Collected: 03.25.13 12.35

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

Tech: BLF % Moisture:

Analyst: NTR Date Prep: 03.26.13 12.20

Seq Number: 909900

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**31.4**	5.00	0.104	mg/L	03.26.13 15.15		1
Nitrate as N	14797-55-8	**99.7**	10.0	0.240	mg/L	03.27.13 13.14	DK	10
Sulfate	14808-79-8	**172**	50.0	1.68	mg/L	03.27.13 13.14	D	10

XENCO Laboratories
Florida Testing Services, LLC

Certificate of Analytical Results 459923

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-15** Matrix: Water Date Received: 03.26.13 09.40

Lab Sample Id: **459923-004** Date Collected: 03.25.13 15.01

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

Tech: BLF % Moisture:

Analyst: NTR Date Prep: 03.26.13 12.20

Seq Number: 909900

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**906**	500	10.4	mg/L	03.27.13 13.49	D	100
Nitrate as N	14797-55-8	**337**	100	2.40	mg/L	03.27.13 13.49	D	100
Sulfate	14808-79-8	**769**	500	16.8	mg/L	03.27.13 13.49	D	100

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 quantiation 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

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9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
6017 Financial Drive, Norcross, GA 30071	(770) 449-8800	(770) 449-5477
3725 E. Atlanta Ave, Phoenix, AZ 85040	(602) 437-0330	

Environmental International Corporation

GPA Bainbridge

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 909900 Matrix: Water Date Prep: 03/26/2013
MB Sample Id: 635701-1-BLK LCS Sample Id: 635701-1-BKS LCSD Sample Id: 635701-1-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	9.82	98	9.89	99	80-120	1	15	mg/L	03/26/13 13:13	
Nitrate as N	<0.0240	1.00	0.910	91	0.911	91	80-120	0	15	mg/L	03/26/13 13:13	
Sulfate	<0.168	10.0	9.25	93	9.31	93	80-120	1	15	mg/L	03/26/13 13:13	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 910028 Matrix: Water Date Prep: 03/27/2013
MB Sample Id: 635767-1-BLK LCS Sample Id: 635767-1-BKS LCSD Sample Id: 635767-1-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	10.4	104	10.2	102	80-120	2	15	mg/L	03/27/13 11:29	
Nitrate as N	<0.0240	1.00	0.958	96	0.903	90	80-120	6	15	mg/L	03/27/13 11:29	
Sulfate	<0.168	10.0	9.68	97	9.68	97	80-120	0	15	mg/L	03/27/13 11:29	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 909900 Matrix: Water Date Prep: 03/26/2013
Parent Sample Id: 459923-001 MD Sample Id: 459923-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	96.0	97.1	1	15	mg/L	03/26/13 14:05	
Nitrate as N	197	197	0	15	mg/L	03/26/13 14:05	
Sulfate	163	164	1	15	mg/L	03/26/13 14:05	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 909900 Matrix: Water Date Prep: 03/26/2013
Parent Sample Id: 459923-001 MS Sample Id: 459923-001 S MSD Sample Id: 459923-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	96.0	10.0	106	100	106	100	80-120	0	15	mg/L	03/26/13 14:23	
Nitrate as N	197	1.00	189	0	190	0	80-120	1	15	mg/L	03/26/13 14:23	X
Sulfate	163	10.0	169	60	170	70	80-120	1	15	mg/L	03/26/13 14:23	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
☐ Philadelphia/New Jersey 610-955-5649
☐ South Carolina 803-543-8099 ☐ Other

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 260632 Page 1 of 1

Company-City: EIC ; Alpharetta, GA **Phone:** 770-772-7100
Lab Only: WO# 459923

Proj Name-Location: GPA Bainbridge, – Bainbridge, GA ☐ 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 GA **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 → Alan Sanders, Shobhna Kondepudi Signature

	Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size (125 mL)	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, and 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:
1	MW-18	3/25/13	10:32		W		X	1	125 mL	P	NA										X					1
2	MW-18 Duplicate	3/25/13	10:50		W		X	1	125 mL	P	NA										X					2
3	MW-19	3/25/13	12:35		W		X	1	125 mL	P	NA										X					3
4	MW-15	3/25/13	15:01		W		X	1	125 mL	P	NA										X					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) A.S. UPS	3/25/2013 16:44	2)	
3)		4) Dano Legmas	3/26/13 9:40
5)		6)	

Total Containers per COC: 4 Cooler Temp: 2.5

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: 03/26/2013 09:40:00 AM

Work Order #: 459923

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)?	2.5
#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)?	**Yes**
#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: 03/26/2013

Checklist reviewed by: Dijana Piljak Date: 03/26/2013

Dijana Piljak

Analytical Report 460001

for

Environmental International Corporation

Project Manager: Alan Sanders

GPA Bainbridge

400007

03-APR-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 (T104704215-10-6-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)

03-APR-13

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

Reference: XENCO Report No(s): **460001**
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) 460001. 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. 460001 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,

Dijana Piljak

Dijana Piljak
Project Manager

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Sample Cross Reference 460001

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-5D	W	03-26-13 08:18		460001-001
MW-5A	W	03-26-13 09:34		460001-002
MW-12	W	03-26-13 10:36		460001-003
MW-8	W	03-26-13 11:35		460001-004
MW-17	W	03-26-13 13:28		460001-005
MW-6	W	03-26-13 14:36		460001-006
MW-14	W	03-26-13 15:46		460001-007
Equipment Blank	W	03-26-13 16:15		460001-008

Certificate of Analytical Results 460001

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-5D** Matrix: Water Date Received: 03.27.13 10.00

Lab Sample Id: **460001-001** Date Collected: 03.26.13 08.18

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 03.27.13 10.37

Seq Number: 910035

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**210**	125	2.60	mg/L	03.27.13 16.09	D	25
Nitrate as N	14797-55-8	**22.8**	12.5	0.600	mg/L	03.27.13 16.09	D	25
Sulfate	14808-79-8	**198**	125	4.20	mg/L	03.27.13 16.09	D	25

Certificate of Analytical Results 460001

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-5A** Matrix: Water Date Received: 03.27.13 10.00

Lab Sample Id: **460001-002** Date Collected: 03.26.13 09.34

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 03.27.13 10.37

Seq Number: 910035

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**20.9**	5.00	0.104	mg/L	03.27.13 16.27		1
Nitrate as N	14797-55-8	**12.8**	12.5	0.600	mg/L	03.27.13 16.44	D	25
Sulfate	14808-79-8	**59.8**	25.0	4.20	mg/L	03.27.13 16.44	D	25

Certificate of Analytical Results 460001

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-12** Matrix: Water Date Received: 03.27.13 10.00

Lab Sample Id: **460001-003** Date Collected: 03.26.13 10.36

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 03.27.13 10.37

Seq Number: 910035

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**23.7**	5.00	0.104	mg/L	03.27.13 17.02		1
Nitrate as N	14797-55-8	**13.0**	12.5	0.600	mg/L	03.27.13 17.19	D	25
Sulfate	14808-79-8	**316**	125	4.20	mg/L	03.27.13 17.19	D	25

Certificate of Analytical Results 460001

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-8** Matrix: Water Date Received: 03.27.13 10.00

Lab Sample Id: **460001-004** Date Collected: 03.26.13 11.35

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 03.27.13 10.37

Seq Number: 910035

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**48.1**	5.00	0.104	mg/L	03.27.13 17.37		1
Nitrate as N	14797-55-8	**19.0**	12.5	0.600	mg/L	03.27.13 17.54	D	25
Sulfate	14808-79-8	**1060**	125	4.20	mg/L	03.27.13 17.54	D	25

Certificate of Analytical Results 460001

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-17** Matrix: Water Date Received: 03.27.13 10.00

Lab Sample Id: **460001-005** Date Collected: 03.26.13 13.28

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 03.27.13 10.37

Seq Number: 910035

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**10.7**	5.00	0.104	mg/L	03.27.13 18.12		1
Nitrate as N	14797-55-8	**2.00**	1.00	0.0240	mg/L	03.27.13 18.12		1
Sulfate	14808-79-8	**41.1**	5.00	0.168	mg/L	03.27.13 18.12		1

Certificate of Analytical Results 460001

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-6** Matrix: Water Date Received: 03.27.13 10.00

Lab Sample Id: **460001-006** Date Collected: 03.26.13 14.36

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 03.27.13 10.37

Seq Number: 910035

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**206**	125	2.60	mg/L	03.27.13 19.39	D	25
Nitrate as N	14797-55-8	U	1.00	0.0240	mg/L	03.27.13 19.22	U	1
Sulfate	14808-79-8	**744**	125	4.20	mg/L	03.27.13 19.39	D	25

Certificate of Analytical Results 460001

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-14** Matrix: Water Date Received: 03.27.13 10.00

Lab Sample Id: **460001-007** Date Collected: 03.26.13 15.46

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 03.27.13 10.37

Seq Number: 910035

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3.15**	5.00	0.104	mg/L	03.27.13 19.57	J	1
Nitrate as N	14797-55-8	**0.0485**	1.00	0.0240	mg/L	03.27.13 19.57	J	1
Sulfate	14808-79-8	**1.24**	5.00	0.168	mg/L	03.27.13 19.57	J	1

Certificate of Analytical Results 460001

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **Equipment Blank** Matrix: Water Date Received: 03.27.13 10.00

Lab Sample Id: **460001-008** Date Collected: 03.26.13 16.15

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 03.27.13 10.37

Seq Number: 910035

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**0.426**	5.00	0.104	mg/L	03.27.13 20.32	J	1
Nitrate as N	14797-55-8	U	1.00	0.0240	mg/L	03.27.13 20.32	U	1
Sulfate	14808-79-8	U	5.00	0.168	mg/L	03.27.13 20.32	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 quantiation 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

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9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
6017 Financial Drive, Norcross, GA 30071	(770) 449-8800	(770) 449-5477
3725 E. Atlanta Ave, Phoenix, AZ 85040	(602) 437-0330	

Environmental International Corporation

GPA Bainbridge

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 910035 Matrix: Water Date Prep: 03/27/2013
MB Sample Id: 635771-1-BLK LCS Sample Id: 635771-1-BKS LCSD Sample Id: 635771-1-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	10.4	104	10.2	102	80-120	2	15	mg/L	03/27/13 11:29	
Nitrate as N	<0.0240	1.00	0.958	96	0.903	90	80-120	6	15	mg/L	03/27/13 11:29	
Sulfate	<0.168	10.0	9.68	97	9.68	97	80-120	0	15	mg/L	03/27/13 11:29	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 910035 Matrix: Ground Water Date Prep: 03/27/2013
Parent Sample Id: 460008-006 MS Sample Id: 460008-006 S MSD Sample Id: 460008-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	117	10.0	134	170	135	180	80-120	1	15	mg/L	03/27/13 23:27	X
Nitrate as N	2.34	1.00	1.63	0	1.53	0	80-120	6	15	mg/L	03/27/13 23:27	X
Sulfate	282	10.0	285	30	284	20	80-120	0	15	mg/L	03/27/13 23:27	X

☐ 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
☐ Philadelphia/New Jersey 610-955-5649
☐ South Carolina 803-543-8099 ☐ Other

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 260631 Page 1 of 1

Company-City: EIC - Alpharetta, GA | Phone: 770-772-2100
Lab Only: WO# 400001
Proj Name-Location: GPA Bainbridge - Bainbridge, GA | ☐ 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 GA | 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: Alan Sanders | Shubhra Kandalgaonkar Signature:

	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, and Sulfate
1	MW-5D	3/26/13	8:18		W		X	1	125mL	P	NA										X
2	MW-5A	3/26/13	9:34		W		X	1	125mL	P	NA										X
3	MW-12	3/26/13	10:36		W		X	1	125mL	P	NA										X
4	MW-8	3/26/13	11:35		W		X	1	125mL	P	NA										X
5	MW-17	3/26/13	13:28		W		X	1	125mL	P	NA										X
6	MW-6	3/26/13	14:36		W		X	1	125mL	P	NA										X
7	MW-14	3/26/13	15:46		W		X	1	125mL	P	NA										X
8	EQUIPMENT BLANK	3/26/13	16:15		W		X	1	125mL	P	NA										X
9					W		X	1	125mL	P	NA										X
10					W		X	1	125mL	P	NA										X

	Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1	1) A.S.	3/26/2013 16:49	2)	
2	3) UPS		4) David Lagmas	3/27/13 10:00
3	5)		6)	

Total Containers per COC: 9 Cooler Temp: 2.5°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.

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:

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

Client: Environmental International Corporation

Date/ Time Received: 03/27/2013 10:00:00 AM

Work Order #: 460001

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)?	2.5
#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**
#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: 03/27/2013

Checklist reviewed by: Dijana Piljak Date: 03/27/2013

Analytical Report 460125

for

Environmental International Corporation

Project Manager: Alan Sanders

GPA Bainbridge

400007

02-APR-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 (T104704215-10-6-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)

02-APR-13

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

Reference: XENCO Report No(s): **460125**
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) 460125. 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. 460125 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,

Dijana Piljak

Dijana Piljak
Project Manager

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Sample Cross Reference 460125

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-7	W	03-27-13 08:23		460125-001
MW-13	W	03-27-13 16:24		460125-002
MW-16	W	03-27-13 09:35		460125-003
MW-10	W	03-27-13 10:36		460125-004
MW-20	W	03-27-13 13:43		460125-005
MW-21	W	03-27-13 11:37		460125-006
MW-22	W	03-27-13 14:54		460125-007

XENCO Laboratories
Florida Testing Services, LLC

Certificate of Analytical Results 460125

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-7** Matrix: Water Date Received: 03.28.13 11.50

Lab Sample Id: **460125-001** Date Collected: 03.27.13 08.23

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 03.28.13 10.12

Seq Number: 910135

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**12.6**	5.00	0.104	mg/L	03.28.13 17.12		1
Nitrate as N	14797-55-8	U	1.00	0.0240	mg/L	03.28.13 17.12	U	1
Sulfate	14808-79-8	**175**	125	4.20	mg/L	03.28.13 17.30	D	25

Certificate of Analytical Results 460125

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-13** Matrix: Water Date Received: 03.28.13 11.50

Lab Sample Id: **460125-002** Date Collected: 03.27.13 16.24

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 03.28.13 10.12

Seq Number: 910135

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**24.2**	5.00	0.104	mg/L	03.28.13 18.22		1
Nitrate as N	14797-55-8	U	1.00	0.0240	mg/L	03.28.13 18.22	U	1
Sulfate	14808-79-8	**97.7**	50.0	1.68	mg/L	03.29.13 14.00	D	10

XENCO Laboratories
Florida Testing Services, LLC

Certificate of Analytical Results 460125

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-16** Matrix: Water Date Received: 03.28.13 11.50

Lab Sample Id: **460125-003** Date Collected: 03.27.13 09.35

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 03.28.13 10.12

Seq Number: 910135

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2.18**	5.00	0.104	mg/L	03.28.13 18.40	J	1
Nitrate as N	14797-55-8	U	1.00	0.0240	mg/L	03.28.13 18.40	U	1
Sulfate	14808-79-8	**2.60**	5.00	0.168	mg/L	03.28.13 18.40	J	1

XENCO Laboratories
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Certificate of Analytical Results 460125

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-10** Matrix: Water Date Received: 03.28.13 11.50

Lab Sample Id: **460125-004** Date Collected: 03.27.13 10.36

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 03.28.13 10.12

Seq Number: 910135

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**40.5**	5.00	0.104	mg/L	03.28.13 17.47		1
Nitrate as N	14797-55-8	U	1.00	0.0240	mg/L	03.28.13 17.47	U	1
Sulfate	14808-79-8	**492**	125	4.20	mg/L	03.28.13 18.05	D	25

Certificate of Analytical Results 460125

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-20** Matrix: Water Date Received: 03.28.13 11.50

Lab Sample Id: **460125-005** Date Collected: 03.27.13 13.43

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 03.28.13 10.12

Seq Number: 910135

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**0.538**	5.00	0.104	mg/L	03.28.13 19.15	J	1
Nitrate as N	14797-55-8	U	1.00	0.0240	mg/L	03.28.13 19.15	U	1
Sulfate	14808-79-8	U	5.00	0.168	mg/L	03.28.13 19.15	U	1

XENCO Laboratories
Florida Testing Services, LLC

Certificate of Analytical Results 460125

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-21** Matrix: Water Date Received: 03.28.13 11.50

Lab Sample Id: **460125-006** Date Collected: 03.27.13 11.37

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 03.28.13 10.12

Seq Number: 910135

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.38**	5.00	0.104	mg/L	03.28.13 19.32		1
Nitrate as N	14797-55-8	**0.914**	1.00	0.0240	mg/L	03.28.13 19.32	J	1
Sulfate	14808-79-8	**48.3**	5.00	0.168	mg/L	03.28.13 19.32		1

Certificate of Analytical Results 460125

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-22** Matrix: Water Date Received: 03.28.13 11.50

Lab Sample Id: **460125-007** Date Collected: 03.27.13 14.54

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 03.28.13 10.12

Seq Number: 910135

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.19**	5.00	0.104	mg/L	03.28.13 19.50		1
Nitrate as N	14797-55-8	U	1.00	0.0240	mg/L	03.28.13 19.50	U	1
Sulfate	14808-79-8	**176**	50.0	1.68	mg/L	03.29.13 14.17	D	10

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 quantiation 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

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9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
6017 Financial Drive, Norcross, GA 30071	(770) 449-8800	(770) 449-5477
3725 E. Atlanta Ave, Phoenix, AZ 85040	(602) 437-0330	

Environmental International Corporation

GPA Bainbridge

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 910135 Matrix: Water Date Prep: 03/28/2013
MB Sample Id: 635833-1-BLK LCS Sample Id: 635833-1-BKS LCSD Sample Id: 635833-1-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	10.4	104	10.4	104	80-120	0	15	mg/L	03/28/13 11:05	
Nitrate as N	<0.0240	1.00	0.955	96	0.931	93	80-120	3	15	mg/L	03/28/13 11:05	
Sulfate	<0.168	10.0	9.59	96	9.58	96	80-120	0	15	mg/L	03/28/13 11:05	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 910225 Matrix: Water Date Prep: 03/29/2013
MB Sample Id: 635903-1-BLK LCS Sample Id: 635903-1-BKS LCSD Sample Id: 635903-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Nitrate as N	<0.0240	1.00	0.969	97	1.03	103	80-120	6	15	mg/L	03/29/13 12:15	
Sulfate	<0.168	10.0	9.27	93	10.6	106	80-120	13	15	mg/L	03/29/13 12:15	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 910135 Matrix: Ground Water Date Prep: 03/28/2013
Parent Sample Id: 460101-002 MD Sample Id: 460101-002 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	92.4	92.2	0	15	mg/L	03/28/13 14:35	
Nitrate as N	<0.0240	<0.0240	0	15	mg/L	03/28/13 14:35	U
Sulfate	571	574	1	15	mg/L	03/28/13 14:35	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 910135 Matrix: Ground Water Date Prep: 03/28/2013
Parent Sample Id: 460101-002 MS Sample Id: 460101-002 S MSD Sample Id: 460101-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	92.4	10.0	103	106	103	106	80-120	0	15	mg/L	03/28/13 14:52	
Nitrate as N	<0.0240	1.00	2.04	204	1.99	199	80-120	2	15	mg/L	03/28/13 14:52	X
Sulfate	571	10.0	562	0	560	0	80-120	0	15	mg/L	03/28/13 14:52	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
☐ Philadelphia/New Jersey 610-955-5649
☐ South Carolina 803-543-8099 ☐ Other

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 260626 Page 1 of 1

Company-City: EIC; Alpharetta, GA **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 GA **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)

Lab Only: WO# 460125

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.

Sampler Name: Alan Sanders Signature: Alan Sanders

	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, and 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:
1	MW-7	3/27/13	8:23		W		X	1	125 mL	P	NA										X					1
2	MW-13	3/27/13	16:24		W		X	1	125 mL	P	NA										X					2
3	MW-16	3/27/13	9:35		W		X	1	125 mL	P	NA										X					3
4	MW-10	3/27/13	10:36		W		X	1	125 mL	P	NA										X					4
5	MW-20	3/27/13	13:43		W		X	1	125 mL	P	NA										X					5
6	MW-21	3/27/13	11:37		W		X	1	125 mL	P	NA										X					6
7	MW-22	3/27/13	14:54		W		X	1	125 mL	P	NA										X					7
8																										8
9																										9
10																										10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) A.S. Alan Sanders	3/27/13 16:50	2) Pedro Cisneros	3/28/13 11:50
3)		4)	
5)		6)	

Total Containers per COC: 7 Cooler Temp: 2.5°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: 03/28/2013 11:50:00 AM

Work Order #: 460125

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?	**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)?	**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: 03/28/2013

Checklist reviewed by: Dijana Piljak Date: 03/28/2013

Dijana Piljak

Analytical Report 460271

for

Environmental International Corporation

Project Manager: Alan Sanders

GPA Bainbridge

400007

12-APR-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 (T104704215-10-6-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-APR-13

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

Reference: XENCO Report No(s): **460271**
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) 460271. 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. 460271 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,

David C. Fuller

David C. Fuller
Client Services Director

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Sample Cross Reference 460271

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-18	W	03-25-13 10:32		460271-001
MW-18 Duplicate	W	03-25-13 10:50		460271-002
MW-19	W	03-25-13 12:35		460271-003
MW-15	W	03-25-13 15:01		460271-004
MW-5D	W	03-26-13 08:18		460271-005
MW-5A	W	03-26-13 09:34		460271-006
MW-12	W	03-26-13 10:36		460271-007
MW-8	W	03-26-13 11:35		460271-008
MW-17	W	03-26-13 13:28		460271-009
MW-6	W	03-26-13 14:36		460271-010
MW-14	W	03-26-13 15:46		460271-011
EQUIPMENT BLANK	W	03-26-13 16:15		460271-012
MW-7	W	03-27-13 08:23		460271-013
MW-16	W	03-27-13 09:35		460271-014
MW-10	W	03-27-13 10:36		460271-015
MW-20	W	03-27-13 13:43		460271-016
MW-21	W	03-27-13 11:37		460271-017
MW-22	W	03-27-13 14:54		460271-018
MW-13	W	03-27-13 16:24		460271-019
MW-1	W	03-28-13 08:35		460271-020
MW-1A	W	03-28-13 09:49		460271-021
MW-4U	W	03-28-13 10:57		460271-022
MW-11	W	03-28-13 12:43		460271-023
MW-2	W	03-28-13 17:41		460271-024
TRIP BLANK	W	03-28-13 00:00		460271-025

Certificate of Analytical Results 460271

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-18** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-001** Date Collected: 03.25.13 10.32

Analytical Method: **TOC by SW-846 9060**

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 910570 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	04.03.13 13.19		1

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A

Tech: ABA % Moisture:

Analyst: 4150 Date Prep: 04.02.13 09.46

Seq Number: 910598

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**2.28**	0.0500	0.000900	mg/L	04.03.13 15.28		1

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**

Tech: MWE % Moisture:

Analyst: MWE

Seq Number: 910502

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	**0.00203**	0.00200	0.00187	mg/L	04.02.13 11.11		1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 11.11	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 11.11	U	1

Certificate of Analytical Results 460271

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-18** Matrix: Water Date Received: 03.29.13 11.36
Lab Sample Id: **460271-001** Date Collected: 03.25.13 10.32

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B
Tech: BRO % Moisture:
Analyst: NTR Date Prep: 04.01.13 10.45
Seq Number: 910531

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	04.03.13 02.38	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	04.03.13 02.38	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	04.03.13 02.38	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	04.03.13 02.38	U	1
Alpha-BHC	319-84-6	**0.0330**	0.0500	0.00170	ug/L	04.03.13 02.38	J	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	04.03.13 02.38	U	1
Beta-BHC	319-85-7	**0.882**	0.0500	0.00150	ug/L	04.03.13 02.38		1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	04.03.13 02.38	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	04.03.13 02.38	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	04.03.13 02.38	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	04.03.13 02.38	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	04.03.13 02.38	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	04.03.13 02.38	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	04.03.13 02.38	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	04.03.13 02.38	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	04.03.13 02.38	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	04.03.13 02.38	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	04.03.13 02.38	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	04.03.13 02.38	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	04.03.13 02.38	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	04.03.13 02.38	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	04.03.13 02.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	104	%	27-135	04.03.13 02.38	
Decachlorobiphenyl	2051-24-3	115	%	26-154	04.03.13 02.38	

Certificate of Analytical Results 460271

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-18 Duplicate** Matrix: Water Date Received: 03.29.13 11.36
Lab Sample Id: **460271-002** Date Collected: 03.25.13 10.50

Analytical Method: **TOC by SW-846 9060**
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 910570 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	04.03.13 13.59		1

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 04.02.13 09.46
Seq Number: 910598

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**2.37**	0.0500	0.000900	mg/L	04.03.13 15.30		1

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 910502

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	04.02.13 11.43	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 11.43	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 11.43	U	1

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Sample Id: **MW-18 Duplicate** Matrix: Water Date Received: 03.29.13 11.36
Lab Sample Id: **460271-002** Date Collected: 03.25.13 10.50

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B
Tech: BRO % Moisture:
Analyst: NTR Date Prep: 04.01.13 10.45
Seq Number: 910531

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	04.03.13 02.55	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	04.03.13 02.55	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	04.03.13 02.55	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	04.03.13 02.55	U	1
Alpha-BHC	319-84-6	**0.0267**	0.0500	0.00170	ug/L	04.03.13 02.55	J	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	04.03.13 02.55	U	1
Beta-BHC	319-85-7	**0.598**	0.0500	0.00150	ug/L	04.03.13 02.55		1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	04.03.13 02.55	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	04.03.13 02.55	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	04.03.13 02.55	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	04.03.13 02.55	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	04.03.13 02.55	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	04.03.13 02.55	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	04.03.13 02.55	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	04.03.13 02.55	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	04.03.13 02.55	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	04.03.13 02.55	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	04.03.13 02.55	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	04.03.13 02.55	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	04.03.13 02.55	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	04.03.13 02.55	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	04.03.13 02.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	85	%	27-135	04.03.13 02.55	
Decachlorobiphenyl	2051-24-3	100	%	26-154	04.03.13 02.55	

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Sample Id: **MW-19** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-003** Date Collected: 03.25.13 12.35

Analytical Method: **TOC by SW-846 9060**

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 910570 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**2.45**	1.00	0.548	mg/L	04.03.13 14.18		1

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A

Tech: ABA % Moisture:

Analyst: 4150 Date Prep: 04.02.13 09.46

Seq Number: 910598

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**1.03**	0.0500	0.000900	mg/L	04.03.13 15.32		1

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**

Tech: MWE % Moisture:

Analyst: MWE

Seq Number: 910502

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	04.02.13 11.50	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 11.50	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 11.50	U	1

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Sample Id: **MW-19** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-003** Date Collected: 03.25.13 12.35

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 04.01.13 10.45

Seq Number: 910531

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	04.03.13 03.13	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	04.03.13 03.13	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	04.03.13 03.13	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	04.03.13 03.13	U	1
Alpha-BHC	319-84-6	U	0.0500	0.00170	ug/L	04.03.13 03.13	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	04.03.13 03.13	U	1
Beta-BHC	319-85-7	U	0.0500	0.00150	ug/L	04.03.13 03.13	U	1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	04.03.13 03.13	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	04.03.13 03.13	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	04.03.13 03.13	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	04.03.13 03.13	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	04.03.13 03.13	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	04.03.13 03.13	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	04.03.13 03.13	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	04.03.13 03.13	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	04.03.13 03.13	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	04.03.13 03.13	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	04.03.13 03.13	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	04.03.13 03.13	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	04.03.13 03.13	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	04.03.13 03.13	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	04.03.13 03.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	65	%	27-135	04.03.13 03.13	
Decachlorobiphenyl	2051-24-3	98	%	26-154	04.03.13 03.13	

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Sample Id: **MW-15** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-004** Date Collected: 03.25.13 15.01

Analytical Method: **TOC by SW-846 9060**

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 910570 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**8.06**	1.00	0.548	mg/L	04.03.13 14.41		1

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A

Tech: ABA % Moisture:

Analyst: 4150 Date Prep: 04.02.13 09.46

Seq Number: 910598

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**4.28**	0.0500	0.000900	mg/L	04.03.13 15.34		1

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**

Tech: MWE % Moisture:

Analyst: MWE

Seq Number: 910502

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	04.02.13 11.59	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 11.59	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 11.59	U	1

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Sample Id: **MW-15** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-004** Date Collected: 03.25.13 15.01

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 04.01.13 10.45

Seq Number: 910531

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	04.03.13 03.30	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	04.03.13 03.30	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	04.03.13 03.30	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	04.03.13 03.30	U	1
Alpha-BHC	319-84-6	**0.0795**	0.0500	0.00170	ug/L	04.03.13 03.30		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	04.03.13 03.30	U	1
Beta-BHC	319-85-7	**0.347**	0.0500	0.00150	ug/L	04.03.13 03.30		1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	04.03.13 03.30	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	04.03.13 03.30	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	04.03.13 03.30	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	04.03.13 03.30	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	04.03.13 03.30	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	04.03.13 03.30	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	04.03.13 03.30	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	04.03.13 03.30	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	04.03.13 03.30	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0418**	0.0500	0.000700	ug/L	04.03.13 03.30	J	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	04.03.13 03.30	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	04.03.13 03.30	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	04.03.13 03.30	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	04.03.13 03.30	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	04.03.13 03.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	99	%	27-135	04.03.13 03.30	
Decachlorobiphenyl	2051-24-3	106	%	26-154	04.03.13 03.30	

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Sample Id: **MW-5D** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-005** Date Collected: 03.26.13 08.18

Analytical Method: **TOC by SW-846 9060**

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 910570 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**23.4**	1.00	0.548	mg/L	04.03.13 15.15		1

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A

Tech: ABA % Moisture:

Analyst: 4150 Date Prep: 04.02.13 09.46

Seq Number: 910598

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.314**	0.0500	0.000900	mg/L	04.03.13 15.36		1

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**

Tech: MWE % Moisture:

Analyst: MWE

Seq Number: 910502

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	04.02.13 12.08	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 12.08	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 12.08	U	1

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Sample Id: **MW-5D** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-005** Date Collected: 03.26.13 08.18

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 04.01.13 10.45

Seq Number: 910531

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	04.03.13 03.48	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	04.03.13 03.48	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	04.03.13 03.48	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	04.03.13 03.48	U	1
Alpha-BHC	319-84-6	U	0.0500	0.00170	ug/L	04.03.13 03.48	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	04.03.13 03.48	U	1
Beta-BHC	319-85-7	**0.119**	0.0500	0.00150	ug/L	04.03.13 03.48		1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	04.03.13 03.48	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	04.03.13 03.48	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	04.03.13 03.48	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	04.03.13 03.48	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	04.03.13 03.48	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	04.03.13 03.48	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	04.03.13 03.48	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	04.03.13 03.48	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	04.03.13 03.48	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	04.03.13 03.48	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	04.03.13 03.48	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	04.03.13 03.48	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	04.03.13 03.48	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	04.03.13 03.48	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	04.03.13 03.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	90	%	27-135	04.03.13 03.48	
Decachlorobiphenyl	2051-24-3	97	%	26-154	04.03.13 03.48	

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Sample Id: **MW-5A** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-006** Date Collected: 03.26.13 09.34

Analytical Method: **TOC by SW-846 9060**

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 910570 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.31**	1.00	0.548	mg/L	04.03.13 15.38		1

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A

Tech: ABA % Moisture:

Analyst: 4150 Date Prep: 04.02.13 09.46

Seq Number: 910598

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**1.04**	0.0500	0.000900	mg/L	04.03.13 15.38		1

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**

Tech: MWE % Moisture:

Analyst: MWE

Seq Number: 910502

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	04.02.13 12.17	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 12.17	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 12.17	U	1

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Sample Id: **MW-5A** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-006** Date Collected: 03.26.13 09.34

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 04.01.13 10.45

Seq Number: 910531

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	04.03.13 04.05	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	04.03.13 04.05	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	04.03.13 04.05	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	04.03.13 04.05	U	1
Alpha-BHC	319-84-6	**0.0995**	0.0500	0.00170	ug/L	04.03.13 04.05		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	04.03.13 04.05	U	1
Beta-BHC	319-85-7	**2.34**	0.500	0.0150	ug/L	04.03.13 12.05	D	10
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	04.03.13 04.05	U	1
Delta-BHC	319-86-8	**0.242**	0.0500	0.000900	ug/L	04.03.13 04.05		1
Dieldrin	60-57-1	**2.12**	1.00	0.0100	ug/L	04.03.13 12.05	D	10
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	04.03.13 04.05	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	04.03.13 04.05	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	04.03.13 04.05	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	04.03.13 04.05	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	04.03.13 04.05	U	1
Endrin Ketone	53494-70-5	**0.0724**	0.100	0.00130	ug/L	04.03.13 04.05	J	1
Gamma-BHC (Lindane)	58-89-9	**0.0760**	0.0500	0.000700	ug/L	04.03.13 04.05		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	04.03.13 04.05	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	04.03.13 04.05	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	04.03.13 04.05	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	04.03.13 04.05	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	04.03.13 04.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	96	%	27-135	04.03.13 04.05	
Decachlorobiphenyl	2051-24-3	93	%	26-154	04.03.13 04.05	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-12** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-007** Date Collected: 03.26.13 10.36

Analytical Method: **TOC by SW-846 9060**

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 910570 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.33**	1.00	0.548	mg/L	04.03.13 16.32		1

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A

Tech: ABA % Moisture:

Analyst: 4150 Date Prep: 04.02.13 09.46

Seq Number: 910598

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.0889**	0.0500	0.000900	mg/L	04.03.13 15.40		1

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**

Tech: MWE % Moisture:

Analyst: MWE

Seq Number: 910502

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	04.02.13 12.25	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 12.25	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 12.25	U	1

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-12** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-007** Date Collected: 03.26.13 10.36

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 04.01.13 10.45

Seq Number: 910531

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	04.03.13 04.23	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	04.03.13 04.23	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	04.03.13 04.23	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	04.03.13 04.23	U	1
Alpha-BHC	319-84-6	U	0.0500	0.00170	ug/L	04.03.13 04.23	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	04.03.13 04.23	U	1
Beta-BHC	319-85-7	**0.359**	0.0500	0.00150	ug/L	04.03.13 04.23		1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	04.03.13 04.23	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	04.03.13 04.23	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	04.03.13 04.23	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	04.03.13 04.23	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	04.03.13 04.23	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	04.03.13 04.23	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	04.03.13 04.23	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	04.03.13 04.23	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	04.03.13 04.23	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	04.03.13 04.23	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	04.03.13 04.23	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	04.03.13 04.23	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	04.03.13 04.23	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	04.03.13 04.23	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	04.03.13 04.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	96	%	27-135	04.03.13 04.23	
Decachlorobiphenyl	2051-24-3	106	%	26-154	04.03.13 04.23	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-8** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-008** Date Collected: 03.26.13 11.35

Analytical Method: **TOC by SW-846 9060**

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 910570 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.84**	1.00	0.548	mg/L	04.03.13 16.49		1

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A

Tech: ABA % Moisture:

Analyst: 4150 Date Prep: 04.02.13 09.46

Seq Number: 910598

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**1.25**	0.0500	0.000900	mg/L	04.03.13 15.42		1

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**

Tech: MWE % Moisture:

Analyst: MWE

Seq Number: 910502

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	04.02.13 12.32	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 12.32	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 12.32	U	1

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-8** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-008** Date Collected: 03.26.13 11.35

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 04.01.13 10.45

Seq Number: 910531

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	04.03.13 04.40	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	04.03.13 04.40	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	04.03.13 04.40	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	04.03.13 04.40	U	1
Alpha-BHC	319-84-6	**0.0315**	0.0500	0.00170	ug/L	04.03.13 04.40	J	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	04.03.13 04.40	U	1
Beta-BHC	319-85-7	**1.47**	0.500	0.0150	ug/L	04.03.13 12.23	D	10
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	04.03.13 04.40	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	04.03.13 04.40	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	04.03.13 04.40	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	04.03.13 04.40	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	04.03.13 04.40	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	04.03.13 04.40	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	04.03.13 04.40	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	04.03.13 04.40	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	04.03.13 04.40	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0360**	0.0500	0.000700	ug/L	04.03.13 04.40	J	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	04.03.13 04.40	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	04.03.13 04.40	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	04.03.13 04.40	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	04.03.13 04.40	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	04.03.13 04.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	87	%	27-135	04.03.13 04.40	
Decachlorobiphenyl	2051-24-3	94	%	26-154	04.03.13 04.40	

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GPA Bainbridge

Sample Id: **MW-17** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-009** Date Collected: 03.26.13 13.28

Analytical Method: **TOC by SW-846 9060**
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 910570 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.57**	1.00	0.548	mg/L	04.03.13 17.07		1

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 04.02.13 09.46
Seq Number: 910598

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.293**	0.0500	0.000900	mg/L	04.03.13 15.49		1

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 910502

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	**0.0150**	0.00200	0.00187	mg/L	04.02.13 12.42		1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 12.42	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 12.42	U	1

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GPA Bainbridge

Sample Id: **MW-17** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-009** Date Collected: 03.26.13 13.28

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 04.01.13 10.45

Seq Number: 910531

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	04.03.13 04.58	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	04.03.13 04.58	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	04.03.13 04.58	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	04.03.13 04.58	U	1
Alpha-BHC	319-84-6	U	0.0500	0.00170	ug/L	04.03.13 04.58	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	04.03.13 04.58	U	1
Beta-BHC	319-85-7	**0.300**	0.0500	0.00150	ug/L	04.03.13 04.58		1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	04.03.13 04.58	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	04.03.13 04.58	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	04.03.13 04.58	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	04.03.13 04.58	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	04.03.13 04.58	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	04.03.13 04.58	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	04.03.13 04.58	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	04.03.13 04.58	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	04.03.13 04.58	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	04.03.13 04.58	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	04.03.13 04.58	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	04.03.13 04.58	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	04.03.13 04.58	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	04.03.13 04.58	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	04.03.13 04.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	97	%	27-135	04.03.13 04.58	
Decachlorobiphenyl	2051-24-3	112	%	26-154	04.03.13 04.58	

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Sample Id: **MW-6** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-010** Date Collected: 03.26.13 14.36

Analytical Method: **TOC by SW-846 9060**
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 910570 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	04.03.13 17.25		1

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 04.02.13 09.46
Seq Number: 910598

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**5.50**	0.0500	0.000900	mg/L	04.03.13 15.51		1

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 910502

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	**0.0779**	0.00200	0.00187	mg/L	04.02.13 12.50		1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 12.50	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 12.50	U	1

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Sample Id: **MW-6** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-010** Date Collected: 03.26.13 14.36

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 04.01.13 10.45

Seq Number: 910531

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	04.03.13 05.15	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	04.03.13 05.15	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	04.03.13 05.15	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	04.03.13 05.15	U	1
Alpha-BHC	319-84-6	**1.29**	0.500	0.0170	ug/L	04.03.13 12.40	D	10
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	04.03.13 05.15	U	1
Beta-BHC	319-85-7	**1.32**	0.500	0.0150	ug/L	04.03.13 12.40	D	10
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	04.03.13 05.15	U	1
Delta-BHC	319-86-8	**2.53**	0.500	0.00900	ug/L	04.03.13 12.40	D	10
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	04.03.13 05.15	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	04.03.13 05.15	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	04.03.13 05.15	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	04.03.13 05.15	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	04.03.13 05.15	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	04.03.13 05.15	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	04.03.13 05.15	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	04.03.13 05.15	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	04.03.13 05.15	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	04.03.13 05.15	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	04.03.13 05.15	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	04.03.13 05.15	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	04.03.13 05.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	92	%	27-135	04.03.13 05.15	
Decachlorobiphenyl	2051-24-3	105	%	26-154	04.03.13 05.15	

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Sample Id: **MW-14** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-011** Date Collected: 03.26.13 15.46

Analytical Method: **TOC by SW-846 9060**

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 910570 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.78**	1.00	0.548	mg/L	04.03.13 17.46		1

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A

Tech: ABA % Moisture:

Analyst: 4150 Date Prep: 04.02.13 09.46

Seq Number: 910604

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.369**	0.0500	0.000900	mg/L	04.03.13 16.29		1

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**

Tech: MWE % Moisture:

Analyst: MWE

Seq Number: 910502

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	**0.0217**	0.00200	0.00187	mg/L	04.02.13 12.57		1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 12.57	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 12.57	U	1

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GPA Bainbridge

Sample Id: **MW-14** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-011** Date Collected: 03.26.13 15.46

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 04.01.13 10.45

Seq Number: 910531

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	04.03.13 05.33	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	04.03.13 05.33	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	04.03.13 05.33	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	04.03.13 05.33	U	1
Alpha-BHC	319-84-6	U	0.0500	0.00170	ug/L	04.03.13 05.33	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	04.03.13 05.33	U	1
Beta-BHC	319-85-7	U	0.0500	0.00150	ug/L	04.03.13 05.33	U	1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	04.03.13 05.33	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	04.03.13 05.33	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	04.03.13 05.33	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	04.03.13 05.33	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	04.03.13 05.33	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	04.03.13 05.33	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	04.03.13 05.33	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	04.03.13 05.33	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	04.03.13 05.33	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	04.03.13 05.33	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	04.03.13 05.33	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	04.03.13 05.33	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	04.03.13 05.33	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	04.03.13 05.33	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	04.03.13 05.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	96	%	27-135	04.03.13 05.33	
Decachlorobiphenyl	2051-24-3	104	%	26-154	04.03.13 05.33	

Certificate of Analytical Results 460271

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **EQUIPMENT BLANK** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-012** Date Collected: 03.26.13 16.15

Analytical Method: **TOC by SW-846 9060**

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 910570 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**0.681**	1.00	0.548	mg/L	04.03.13 18.24	J	1

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A

Tech: ABA % Moisture:

Analyst: 4150 Date Prep: 04.02.13 09.46

Seq Number: 910604

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	U	0.0500	0.000900	mg/L	04.03.13 16.31	U	1

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**

Tech: MWE % Moisture:

Analyst: MWE

Seq Number: 910502

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	04.02.13 13.14	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 13.14	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 13.14	U	1

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **EQUIPMENT BLANK** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-012** Date Collected: 03.26.13 16.15

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 04.01.13 10.45

Seq Number: 910531

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	04.03.13 05.50	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	04.03.13 05.50	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	04.03.13 05.50	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	04.03.13 05.50	U	1
Alpha-BHC	319-84-6	U	0.0500	0.00170	ug/L	04.03.13 05.50	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	04.03.13 05.50	U	1
Beta-BHC	319-85-7	U	0.0500	0.00150	ug/L	04.03.13 05.50	U	1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	04.03.13 05.50	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	04.03.13 05.50	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	04.03.13 05.50	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	04.03.13 05.50	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	04.03.13 05.50	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	04.03.13 05.50	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	04.03.13 05.50	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	04.03.13 05.50	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	04.03.13 05.50	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	04.03.13 05.50	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	04.03.13 05.50	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	04.03.13 05.50	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	04.03.13 05.50	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	04.03.13 05.50	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	04.03.13 05.50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	105	%	27-135	04.03.13 05.50	
Decachlorobiphenyl	2051-24-3	112	%	26-154	04.03.13 05.50	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-7** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-013** Date Collected: 03.27.13 08.23

Analytical Method: **TOC by SW-846 9060**
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 910570 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**4.66**	1.00	0.548	mg/L	04.03.13 18.41		1

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 04.02.13 09.46
Seq Number: 910604

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**4.75**	0.0500	0.000900	mg/L	04.03.13 16.37		1

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 910513

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	**0.00922**	0.00200	0.00187	mg/L	04.02.13 14.51		1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 14.51	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 14.51	U	1

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-7** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-013** Date Collected: 03.27.13 08.23

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 04.01.13 10.45

Seq Number: 910531

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	04.03.13 06.08	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	04.03.13 06.08	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	04.03.13 06.08	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	04.03.13 06.08	U	1
Alpha-BHC	319-84-6	**0.0300**	0.0500	0.00170	ug/L	04.03.13 06.08	J	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	04.03.13 06.08	U	1
Beta-BHC	319-85-7	**0.273**	0.0500	0.00150	ug/L	04.03.13 06.08		1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	04.03.13 06.08	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	04.03.13 06.08	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	04.03.13 06.08	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	04.03.13 06.08	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	04.03.13 06.08	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	04.03.13 06.08	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	04.03.13 06.08	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	04.03.13 06.08	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	04.03.13 06.08	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	04.03.13 06.08	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	04.03.13 06.08	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	04.03.13 06.08	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	04.03.13 06.08	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	04.03.13 06.08	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	04.03.13 06.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	57	%	27-135	04.03.13 06.08	
Decachlorobiphenyl	2051-24-3	116	%	26-154	04.03.13 06.08	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-16** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-014** Date Collected: 03.27.13 09.35

Analytical Method: **TOC by SW-846 9060**

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 910570 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**0.924**	1.00	0.548	mg/L	04.03.13 18.59	J	1

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A

Tech: ABA % Moisture:

Analyst: 4150 Date Prep: 04.02.13 09.46

Seq Number: 910604

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.0182**	0.0500	0.000900	mg/L	04.03.13 16.39	J	1

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**

Tech: MWE % Moisture:

Analyst: MWE

Seq Number: 910513

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	04.02.13 14.57	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 14.57	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 14.57	U	1

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-16** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-014** Date Collected: 03.27.13 09.35

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 04.01.13 10.45

Seq Number: 910531

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	04.03.13 06.26	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	04.03.13 06.26	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	04.03.13 06.26	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	04.03.13 06.26	U	1
Alpha-BHC	319-84-6	U	0.0500	0.00170	ug/L	04.03.13 06.26	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	04.03.13 06.26	U	1
Beta-BHC	319-85-7	U	0.0500	0.00150	ug/L	04.03.13 06.26	U	1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	04.03.13 06.26	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	04.03.13 06.26	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	04.03.13 06.26	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	04.03.13 06.26	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	04.03.13 06.26	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	04.03.13 06.26	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	04.03.13 06.26	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	04.03.13 06.26	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	04.03.13 06.26	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	04.03.13 06.26	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	04.03.13 06.26	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	04.03.13 06.26	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	04.03.13 06.26	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	04.03.13 06.26	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	04.03.13 06.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	99	%	27-135	04.03.13 06.26	
Decachlorobiphenyl	2051-24-3	111	%	26-154	04.03.13 06.26	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-10** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-015** Date Collected: 03.27.13 10.36

Analytical Method: **TOC by SW-846 9060**

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 910570 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**2.43**	1.00	0.548	mg/L	04.03.13 19.16		1

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A

Tech: ABA % Moisture:

Analyst: 4150 Date Prep: 04.02.13 09.46

Seq Number: 910604

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**1.06**	0.0500	0.000900	mg/L	04.03.13 16.41		1

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**

Tech: MWE % Moisture:

Analyst: MWE

Seq Number: 910513

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	04.02.13 15.02	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 15.02	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 15.02	U	1

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-10** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-015** Date Collected: 03.27.13 10.36

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 04.01.13 10.45

Seq Number: 910531

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	04.03.13 06.43	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	04.03.13 06.43	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	04.03.13 06.43	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	04.03.13 06.43	U	1
Alpha-BHC	319-84-6	**0.899**	0.0500	0.00170	ug/L	04.03.13 06.43		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	04.03.13 06.43	U	1
Beta-BHC	319-85-7	**6.76**	1.00	0.0300	ug/L	04.03.13 12.58	D	20
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	04.03.13 06.43	U	1
Delta-BHC	319-86-8	**0.683**	0.0500	0.000900	ug/L	04.03.13 06.43		1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	04.03.13 06.43	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	04.03.13 06.43	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	04.03.13 06.43	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	04.03.13 06.43	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	04.03.13 06.43	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	04.03.13 06.43	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	04.03.13 06.43	U	1
Gamma-BHC (Lindane)	58-89-9	**0.380**	0.0500	0.000700	ug/L	04.03.13 06.43		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	04.03.13 06.43	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	04.03.13 06.43	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	04.03.13 06.43	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	04.03.13 06.43	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	04.03.13 06.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	103	%	27-135	04.03.13 06.43	
Decachlorobiphenyl	2051-24-3	107	%	26-154	04.03.13 06.43	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-20** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-016** Date Collected: 03.27.13 13.43

Analytical Method: **TOC by SW-846 9060**

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 910570 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.35**	1.00	0.548	mg/L	04.03.13 20.10		1

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A

Tech: ABA % Moisture:

Analyst: 4150 Date Prep: 04.02.13 09.46

Seq Number: 910604

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.966**	0.0500	0.000900	mg/L	04.03.13 16.17		1

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**

Tech: MWE % Moisture:

Analyst: MWE

Seq Number: 910513

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	04.02.13 15.23	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 15.23	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 15.23	U	1

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-20** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-016** Date Collected: 03.27.13 13.43

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 04.01.13 10.45

Seq Number: 910531

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	04.03.13 07.01	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	04.03.13 07.01	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	04.03.13 07.01	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	04.03.13 07.01	U	1
Alpha-BHC	319-84-6	**0.0790**	0.0500	0.00170	ug/L	04.03.13 07.01		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	04.03.13 07.01	U	1
Beta-BHC	319-85-7	**5.48**	1.00	0.0300	ug/L	04.03.13 13.15	D	20
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	04.03.13 07.01	U	1
Delta-BHC	319-86-8	**0.392**	0.0500	0.000900	ug/L	04.03.13 07.01		1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	04.03.13 07.01	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	04.03.13 07.01	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	04.03.13 07.01	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	04.03.13 07.01	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	04.03.13 07.01	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	04.03.13 07.01	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	04.03.13 07.01	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0336**	0.0500	0.000700	ug/L	04.03.13 07.01	J	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	04.03.13 07.01	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	04.03.13 07.01	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	04.03.13 07.01	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	04.03.13 07.01	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	04.03.13 07.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	101	%	27-135	04.03.13 07.01	
Decachlorobiphenyl	2051-24-3	104	%	26-154	04.03.13 07.01	

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GPA Bainbridge

Sample Id: **MW-21** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-017** Date Collected: 03.27.13 11.37

Analytical Method: **TOC by SW-846 9060**

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 910570 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.54**	1.00	0.548	mg/L	04.03.13 20.27		1

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A

Tech: ABA % Moisture:

Analyst: 4150 Date Prep: 04.02.13 09.46

Seq Number: 910598

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.511**	0.0500	0.000900	mg/L	04.03.13 15.53		1

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**

Tech: MWE % Moisture:

Analyst: MWE

Seq Number: 910513

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	04.02.13 15.29	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 15.29	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 15.29	U	1

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-21** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-017** Date Collected: 03.27.13 11.37

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 04.01.13 10.45

Seq Number: 910531

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	04.03.13 07.18	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	04.03.13 07.18	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	04.03.13 07.18	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	04.03.13 07.18	U	1
Alpha-BHC	319-84-6	U	0.0500	0.00170	ug/L	04.03.13 07.18	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	04.03.13 07.18	U	1
Beta-BHC	319-85-7	**0.440**	0.0500	0.00150	ug/L	04.03.13 07.18		1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	04.03.13 07.18	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	04.03.13 07.18	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	04.03.13 07.18	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	04.03.13 07.18	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	04.03.13 07.18	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	04.03.13 07.18	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	04.03.13 07.18	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	04.03.13 07.18	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	04.03.13 07.18	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	04.03.13 07.18	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	04.03.13 07.18	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	04.03.13 07.18	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	04.03.13 07.18	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	04.03.13 07.18	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	04.03.13 07.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	104	%	27-135	04.03.13 07.18	
Decachlorobiphenyl	2051-24-3	101	%	26-154	04.03.13 07.18	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-22** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-018** Date Collected: 03.27.13 14.54

Analytical Method: **TOC by SW-846 9060**

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 910570 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.73**	1.00	0.548	mg/L	04.03.13 20.44		1

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A

Tech: ABA % Moisture:

Analyst: 4150 Date Prep: 04.02.13 09.46

Seq Number: 910604

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.239**	0.0500	0.000900	mg/L	04.03.13 16.43		1

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**

Tech: MWE % Moisture:

Analyst: MWE

Seq Number: 910513

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	04.02.13 15.36	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 15.36	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 15.36	U	1

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GPA Bainbridge

Sample Id: **MW-22** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-018** Date Collected: 03.27.13 14.54

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 04.01.13 14.00

Seq Number: 910541

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	04.03.13 07.36	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	04.03.13 07.36	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	04.03.13 07.36	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	04.03.13 07.36	U	1
Alpha-BHC	319-84-6	**1.09**	0.500	0.0170	ug/L	04.03.13 13.33	D	10
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	04.03.13 07.36	U	1
Beta-BHC	319-85-7	**18.8**	5.00	0.150	ug/L	04.03.13 13.50	D	100
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	04.03.13 07.36	U	1
Delta-BHC	319-86-8	**0.818**	0.500	0.00900	ug/L	04.03.13 13.33	D	10
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	04.03.13 07.36	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	04.03.13 07.36	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	04.03.13 07.36	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	04.03.13 07.36	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	04.03.13 07.36	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	04.03.13 07.36	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	04.03.13 07.36	U	1
Gamma-BHC (Lindane)	58-89-9	**0.776**	0.0500	0.000700	ug/L	04.03.13 07.36		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	04.03.13 07.36	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	04.03.13 07.36	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	04.03.13 07.36	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	04.03.13 07.36	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	04.03.13 07.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	98	%	27-135	04.03.13 07.36	
Decachlorobiphenyl	2051-24-3	102	%	26-154	04.03.13 07.36	

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GPA Bainbridge

Sample Id: **MW-13** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-019** Date Collected: 03.27.13 16.24

Analytical Method: **TOC by SW-846 9060**

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 910570 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.82**	1.00	0.548	mg/L	04.03.13 21.01		1

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A

Tech: ABA % Moisture:

Analyst: 4150 Date Prep: 04.02.13 09.46

Seq Number: 910604

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.379**	0.0500	0.000900	mg/L	04.03.13 16.45		1

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**

Tech: MWE % Moisture:

Analyst: MWE

Seq Number: 910513

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	04.02.13 15.43	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 15.43	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 15.43	U	1

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GPA Bainbridge

Sample Id: **MW-13** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-019** Date Collected: 03.27.13 16.24

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 04.01.13 10.45

Seq Number: 910531

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	04.03.13 07.53	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	04.03.13 07.53	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	04.03.13 07.53	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	04.03.13 07.53	U	1
Alpha-BHC	319-84-6	U	0.0500	0.00170	ug/L	04.03.13 07.53	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	04.03.13 07.53	U	1
Beta-BHC	319-85-7	**3.37**	0.500	0.0150	ug/L	04.03.13 14.08	D	10
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	04.03.13 07.53	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	04.03.13 07.53	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	04.03.13 07.53	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	04.03.13 07.53	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	04.03.13 07.53	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	04.03.13 07.53	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	04.03.13 07.53	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	04.03.13 07.53	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	04.03.13 07.53	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	04.03.13 07.53	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	04.03.13 07.53	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	04.03.13 07.53	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	04.03.13 07.53	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	04.03.13 07.53	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	04.03.13 07.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	93	%	27-135	04.03.13 07.53	
Decachlorobiphenyl	2051-24-3	95	%	26-154	04.03.13 07.53	

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GPA Bainbridge

Sample Id: **MW-1** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-020** Date Collected: 03.28.13 08.35

Analytical Method: **TOC by SW-846 9060**
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 910570 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.56**	1.00	0.548	mg/L	04.03.13 21.19		1

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Tech: BLF % Moisture:
Analyst: BLF Date Prep: 03.29.13 11.22
Seq Number: 910230

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.48**	5.00	0.104	mg/L	03.29.13 17.30		1
Nitrate as N	14797-55-8	**5.54**	1.00	0.0240	mg/L	03.29.13 17.30		1
Sulfate	14808-79-8	**541**	125	4.20	mg/L	03.29.13 17.47	D	25

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 04.02.13 09.46
Seq Number: 910604

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.570**	0.0500	0.000900	mg/L	04.03.13 16.47		1

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 910513

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	04.02.13 16.00	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 16.00	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 16.00	U	1

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Sample Id: **MW-1** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-020** Date Collected: 03.28.13 08.35

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 04.01.13 10.45

Seq Number: 910531

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	04.03.13 08.11	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	04.03.13 08.11	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	04.03.13 08.11	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	04.03.13 08.11	U	1
Alpha-BHC	319-84-6	U	0.0500	0.00170	ug/L	04.03.13 08.11	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	04.03.13 08.11	U	1
Beta-BHC	319-85-7	U	0.0500	0.00150	ug/L	04.03.13 08.11	U	1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	04.03.13 08.11	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	04.03.13 08.11	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	04.03.13 08.11	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	04.03.13 08.11	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	04.03.13 08.11	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	04.03.13 08.11	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	04.03.13 08.11	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	04.03.13 08.11	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	04.03.13 08.11	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	04.03.13 08.11	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	04.03.13 08.11	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	04.03.13 08.11	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	04.03.13 08.11	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	04.03.13 08.11	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	04.03.13 08.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	97	%	27-135	04.03.13 08.11	
Decachlorobiphenyl	2051-24-3	106	%	26-154	04.03.13 08.11	

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GPA Bainbridge

Sample Id: **MW-1A** Matrix: Water Date Received: 03.29.13 11.36
Lab Sample Id: **460271-021** Date Collected: 03.28.13 09.49

Analytical Method: **TOC by SW-846 9060**
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 910571 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.58**	1.00	0.548	mg/L	04.03.13 23.07		1

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Tech: BLF % Moisture:
Analyst: BLF Date Prep: 03.29.13 11.22
Seq Number: 910230

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.33**	5.00	0.104	mg/L	03.29.13 18.05		1
Nitrate as N	14797-55-8	**8.77**	1.00	0.0240	mg/L	03.29.13 18.05		1
Sulfate	14808-79-8	**670**	125	4.20	mg/L	03.29.13 18.22	D	25

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 04.02.13 09.46
Seq Number: 910604

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.787**	0.0500	0.000900	mg/L	04.03.13 16.49		1

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 910513

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	04.02.13 16.27	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 16.27	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 16.27	U	1

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GPA Bainbridge

Sample Id: **MW-1A** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-021** Date Collected: 03.28.13 09.49

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 04.01.13 14.00

Seq Number: 910541

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	04.03.13 10.31	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	04.03.13 10.31	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	04.03.13 10.31	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	04.03.13 10.31	U	1
Alpha-BHC	319-84-6	U	0.0500	0.00170	ug/L	04.03.13 10.31	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	04.03.13 10.31	U	1
Beta-BHC	319-85-7	U	0.0500	0.00150	ug/L	04.03.13 10.31	U	1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	04.03.13 10.31	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	04.03.13 10.31	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	04.03.13 10.31	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	04.03.13 10.31	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	04.03.13 10.31	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	04.03.13 10.31	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	04.03.13 10.31	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	04.03.13 10.31	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	04.03.13 10.31	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	04.03.13 10.31	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	04.03.13 10.31	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	04.03.13 10.31	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	04.03.13 10.31	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	04.03.13 10.31	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	04.03.13 10.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	88	%	27-135	04.03.13 10.31	
Decachlorobiphenyl	2051-24-3	102	%	26-154	04.03.13 10.31	

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Sample Id: **MW-4U** Matrix: Water Date Received: 03.29.13 11.36
Lab Sample Id: **460271-022** Date Collected: 03.28.13 10.57

Analytical Method: **TOC by SW-846 9060**
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 910571 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.25**	1.00	0.548	mg/L	04.03.13 23.26		1

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Tech: BLF % Moisture:
Analyst: BLF Date Prep: 03.29.13 11.22
Seq Number: 910230

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.38**	5.00	0.104	mg/L	03.29.13 19.15		1
Nitrate as N	14797-55-8	**15.2**	12.5	0.600	mg/L	03.29.13 19.32	D	25
Sulfate	14808-79-8	**148**	125	4.20	mg/L	03.29.13 19.32	D	25

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 04.02.13 09.46
Seq Number: 910604

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.352**	0.0500	0.000900	mg/L	04.03.13 16.51		1

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 910513

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	04.02.13 16.35	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 16.35	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 16.35	U	1

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Sample Id: **MW-4U** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-022** Date Collected: 03.28.13 10.57

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 04.01.13 14.00

Seq Number: 910541

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	04.03.13 10.49	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	04.03.13 10.49	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	04.03.13 10.49	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	04.03.13 10.49	U	1
Alpha-BHC	319-84-6	U	0.0500	0.00170	ug/L	04.03.13 10.49	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	04.03.13 10.49	U	1
Beta-BHC	319-85-7	U	0.0500	0.00150	ug/L	04.03.13 10.49	U	1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	04.03.13 10.49	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	04.03.13 10.49	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	04.03.13 10.49	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	04.03.13 10.49	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	04.03.13 10.49	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	04.03.13 10.49	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	04.03.13 10.49	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	04.03.13 10.49	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	04.03.13 10.49	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	04.03.13 10.49	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	04.03.13 10.49	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	04.03.13 10.49	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	04.03.13 10.49	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	04.03.13 10.49	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	04.03.13 10.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	104	%	27-135	04.03.13 10.49	
Decachlorobiphenyl	2051-24-3	109	%	26-154	04.03.13 10.49	

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Sample Id: **MW-11** Matrix: Water Date Received: 03.29.13 11.36
Lab Sample Id: **460271-023** Date Collected: 03.28.13 12.43

Analytical Method: **TOC by SW-846 9060**
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 910571 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**2.29**	1.00	0.548	mg/L	04.04.13 00.02		1

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Tech: BLF % Moisture:
Analyst: BLF Date Prep: 03.29.13 11.22
Seq Number: 910230

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3.85**	5.00	0.104	mg/L	03.29.13 19.50	J	1
Nitrate as N	14797-55-8	**1.14**	1.00	0.0240	mg/L	03.29.13 19.50		1
Sulfate	14808-79-8	**105**	25.0	4.20	mg/L	03.29.13 20.07	D	25

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 04.02.13 09.46
Seq Number: 910604

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.0318**	0.0500	0.000900	mg/L	04.03.13 16.53	J	1

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 910513

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	04.02.13 16.43	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 16.43	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 16.43	U	1

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Sample Id: **MW-11** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-023** Date Collected: 03.28.13 12.43

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 04.01.13 14.00

Seq Number: 910541

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	04.03.13 11.06	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	04.03.13 11.06	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	04.03.13 11.06	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	04.03.13 11.06	U	1
Alpha-BHC	319-84-6	U	0.0500	0.00170	ug/L	04.03.13 11.06	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	04.03.13 11.06	U	1
Beta-BHC	319-85-7	U	0.0500	0.00150	ug/L	04.03.13 11.06	U	1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	04.03.13 11.06	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	04.03.13 11.06	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	04.03.13 11.06	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	04.03.13 11.06	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	04.03.13 11.06	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	04.03.13 11.06	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	04.03.13 11.06	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	04.03.13 11.06	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	04.03.13 11.06	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	04.03.13 11.06	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	04.03.13 11.06	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	04.03.13 11.06	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	04.03.13 11.06	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	04.03.13 11.06	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	04.03.13 11.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	94	%	27-135	04.03.13 11.06	
Decachlorobiphenyl	2051-24-3	104	%	26-154	04.03.13 11.06	

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Sample Id: **MW-2** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-024** Date Collected: 03.28.13 17.41

Analytical Method: **TOC by SW-846 9060**
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 910571 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.19**	1.00	0.548	mg/L	04.04.13 00.20		1

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Tech: BLF % Moisture:
Analyst: BLF Date Prep: 03.29.13 11.22
Seq Number: 910230

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2.96**	5.00	0.104	mg/L	03.29.13 18.40	J	1
Nitrate as N	14797-55-8	**0.174**	1.00	0.0240	mg/L	03.29.13 18.40	J	1
Sulfate	14808-79-8	**11.8**	5.00	0.168	mg/L	03.29.13 18.40		1

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 04.02.13 09.46
Seq Number: 910604

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.0267**	0.0500	0.000900	mg/L	04.03.13 16.54	J	1

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 910513

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	04.02.13 16.49	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 16.49	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 16.49	U	1

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Sample Id: **MW-2** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-024** Date Collected: 03.28.13 17.41

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 04.01.13 14.00

Seq Number: 910541

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	04.03.13 11.24	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	04.03.13 11.24	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	04.03.13 11.24	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	04.03.13 11.24	U	1
Alpha-BHC	319-84-6	U	0.0500	0.00170	ug/L	04.03.13 11.24	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	04.03.13 11.24	U	1
Beta-BHC	319-85-7	U	0.0500	0.00150	ug/L	04.03.13 11.24	U	1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	04.03.13 11.24	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	04.03.13 11.24	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	04.03.13 11.24	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	04.03.13 11.24	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	04.03.13 11.24	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	04.03.13 11.24	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	04.03.13 11.24	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	04.03.13 11.24	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	04.03.13 11.24	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	04.03.13 11.24	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	04.03.13 11.24	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	04.03.13 11.24	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	04.03.13 11.24	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	04.03.13 11.24	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	04.03.13 11.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	92	%	27-135	04.03.13 11.24	
Decachlorobiphenyl	2051-24-3	99	%	26-154	04.03.13 11.24	

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Environmental International Corporation, Alpharetta, GA

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Sample Id: **TRIP BLANK** Matrix: Water Date Received: 03.29.13 11.36

Lab Sample Id: **460271-025** Date Collected: 03.28.13 00.00

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**

Tech: MWE % Moisture:

Analyst: MWE

Seq Number: 910513

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	04.02.13 14.44	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	04.02.13 14.44	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	04.02.13 14.44	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 quantiation 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

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GPA Bainbridge

Analytical Method: **TOC by SW-846 9060**
Seq Number: 910570 Matrix: Water
MB Sample Id: 910570-1-BLK LCS Sample Id: 910570-1-BKS LCSD Sample Id: 910570-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Organic Carbon	<0.548	15.0	14.9	99	15.2	101	80-120	2	20	mg/L	04/03/13 12:39	

Analytical Method: **TOC by SW-846 9060**
Seq Number: 910571 Matrix: Water
MB Sample Id: 910571-1-BLK LCS Sample Id: 910571-1-BKS LCSD Sample Id: 910571-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Organic Carbon	<0.548	15.0	15.3	102	15.4	103	80-120	1	20	mg/L	04/03/13 22:29	

Analytical Method: **TOC by SW-846 9060**
Seq Number: 910570 Matrix: Water
Parent Sample Id: 460271-001 MS Sample Id: 460271-001 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Total Organic Carbon	2.46	15.0	17.6	101	80-120	mg/L	04/03/13 13:39	

Analytical Method: **TOC by SW-846 9060**
Seq Number: 910570 Matrix: Water
Parent Sample Id: 460271-011 MS Sample Id: 460271-011 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Total Organic Carbon	1.78	15.0	17.1	102	80-120	mg/L	04/03/13 18:05	

Analytical Method: **TOC by SW-846 9060**
Seq Number: 910571 Matrix: Water
Parent Sample Id: 460271-021 MS Sample Id: 460271-021 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Total Organic Carbon	1.58	15.0	16.8	101	80-120	mg/L	04/03/13 23:26	

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Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A — Prep Method: SW9056P
Seq Number: 910230 — Matrix: Water — Date Prep: 03/29/2013
MB Sample Id: 635907-1-BLK — LCS Sample Id: 635907-1-BKS — LCSD Sample Id: 635907-1-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	11.0	110	10.4	104	80-120	6	15	mg/L	03/29/13 12:15	
Nitrate as N	<0.0240	1.00	0.969	97	1.03	103	80-120	6	15	mg/L	03/29/13 12:15	
Sulfate	<0.168	10.0	9.27	93	10.6	106	80-120	13	15	mg/L	03/29/13 12:15	

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A — Prep Method: SW9056P
Seq Number: 910230 — Matrix: Ground Water — Date Prep: 03/29/2013
Parent Sample Id: 460307-001 — MD Sample Id: 460307-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	32.4	32.5	0	15	mg/L	03/29/13 22:10	
Nitrate as N	<0.0240	<0.0240	0	15	mg/L	03/29/13 22:10	U
Sulfate	2.49	2.40	4	15	mg/L	03/29/13 22:10	J

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A — Prep Method: SW9056P
Seq Number: 910230 — Matrix: Ground Water — Date Prep: 03/29/2013
Parent Sample Id: 460307-001 — MS Sample Id: 460307-001 S — MSD Sample Id: 460307-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	32.4	10.0	43.6	112	43.5	111	80-120	0	15	mg/L	03/29/13 22:28	
Nitrate as N	<0.0240	1.00	0.935	94	0.939	94	80-120	0	15	mg/L	03/29/13 22:28	
Sulfate	2.49	10.0	12.0	95	12.0	95	80-120	0	15	mg/L	03/29/13 22:28	

Analytical Method: Manganese by SW-846 6010C — Prep Method: SW3010A
Seq Number: 910598 — Matrix: Water — Date Prep: 04/02/2013
MB Sample Id: 635988-1-BLK — LCS Sample Id: 635988-1-BKS — LCSD Sample Id: 635988-1-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	0.967	97	0.950	95	80-120	2	20	mg/L	04/03/13 14:59	

Analytical Method: Manganese by SW-846 6010C — Prep Method: SW3010A
Seq Number: 910604 — Matrix: Water — Date Prep: 04/02/2013
MB Sample Id: 635989-1-BLK — LCS Sample Id: 635989-1-BKS — LCSD Sample Id: 635989-1-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	0.951	95	0.942	94	80-120	1	20	mg/L	04/03/13 16:13	

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Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Seq Number: 910598 Matrix: Water Date Prep: 04/02/2013
Parent Sample Id: 460271-017 MD Sample Id: 460271-017 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Manganese	0.511	0.509	0	20	mg/L	04/03/13 15:55	

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Seq Number: 910604 Matrix: Water Date Prep: 04/02/2013
Parent Sample Id: 460271-016 MD Sample Id: 460271-016 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Manganese	0.966	0.951	2	20	mg/L	04/03/13 16:19	

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Seq Number: 910598 Matrix: Water Date Prep: 04/02/2013
Parent Sample Id: 460271-017 MS Sample Id: 460271-017 S MSD Sample Id: 460271-017 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Manganese	0.511	1.00	1.47	96	1.46	95	80-120	1	20	mg/L	04/03/13 15:57	

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Seq Number: 910604 Matrix: Water Date Prep: 04/02/2013
Parent Sample Id: 460271-016 MS Sample Id: 460271-016 S MSD Sample Id: 460271-016 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Manganese	0.966	1.00	1.83	86	1.85	88	80-120	1	20	mg/L	04/03/13 16:20	

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**
Seq Number: 910502 Matrix: Water
MB Sample Id: 910502-1-BLK LCS Sample Id: 910502-1-BKS LCSD Sample Id: 910502-1-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	0.0865	98	0.0730	82	41-112	17	20	mg/L	04/02/13 10:00	
Ethane	<0.00203	0.181	0.137	76	0.125	69	42-107	9	20	mg/L	04/02/13 10:00	
Ethene	<0.0020	0.13	0.071	55	0.070	54	31-107	1	20	mg/L	04/02/13 10:00	

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Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**

Seq Number: 910513 Matrix: Water

MB Sample Id: 910513-1-BLK LCS Sample Id: 910513-1-BKS LCSD Sample Id: 910513-1-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	0.0834	94	0.0903	102	41-112	8	20	mg/L	04/02/13 14:19	
Ethane	<0.00203	0.181	0.140	77	0.140	77	42-107	0	20	mg/L	04/02/13 14:19	
Ethene	<0.0020	0.13	0.076	58	0.074	57	31-107	3	20	mg/L	04/02/13 14:19	

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**

Seq Number: 910502 Matrix: Ground Water

Parent Sample Id: 460101-002 MS Sample Id: 460101-002 S MSD Sample Id: 460101-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Methane	<0.00187	0.0886	0.0823	93	0.0818	92	41-112	1	20	mg/L	04/02/13 13:45	
Ethane	<0.00203	0.181	0.135	75	0.129	71	42-107	5	20	mg/L	04/02/13 13:45	
Ethene	<0.0020	0.13	0.078	60	0.066	51	31-107	17	20	mg/L	04/02/13 13:45	

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**

Seq Number: 910513 Matrix: Water

Parent Sample Id: 460271-014 MS Sample Id: 460271-014 S MSD Sample Id: 460271-014 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Methane	<0.00187	0.0886	0.0766	86	0.0893	101	41-112	15	20	mg/L	04/02/13 15:08	
Ethane	<0.00203	0.181	0.130	72	0.131	72	42-107	1	20	mg/L	04/02/13 15:08	
Ethene	<0.0020	0.13	0.066	51	0.065	50	31-107	2	20	mg/L	04/02/13 15:08	

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Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Seq Number: 910531 Matrix: Water Date Prep: 04/01/2013

MB Sample Id: 636005-1-BLK LCS Sample Id: 636005-1-BKS LCSD Sample Id: 636005-1-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	<0.00210	0.500	0.560	112	0.505	101	20-152	10	30	ug/L	04/03/13 02:03	
4,4-DDE	<0.00320	0.500	0.490	98	0.487	97	18-147	1	30	ug/L	04/03/13 02:03	
4,4-DDT	<0.00210	0.500	0.520	104	0.510	102	18-164	2	30	ug/L	04/03/13 02:03	
Aldrin	<0.00200	0.500	0.533	107	0.531	106	11-131	0	30	ug/L	04/03/13 02:03	
Alpha-BHC	<0.00170	0.500	0.526	105	0.495	99	24-141	6	30	ug/L	04/03/13 02:03	
Alpha-Chlordane	<0.00110	0.500	0.506	101	0.509	102	37-135	1	30	ug/L	04/03/13 02:03	
Beta-BHC	<0.00150	0.500	0.542	108	0.520	104	12-162	4	30	ug/L	04/03/13 02:03	
Delta-BHC	<0.000900	0.500	0.558	112	0.540	108	19-147	3	30	ug/L	04/03/13 02:03	
Dieldrin	<0.00100	0.500	0.502	100	0.494	99	35-140	2	30	ug/L	04/03/13 02:03	
Endosulfan I	<0.00200	0.500	0.510	102	0.503	101	20-135	1	30	ug/L	04/03/13 02:03	
Endosulfan II	<0.00190	0.500	0.469	94	0.465	93	34-122	1	30	ug/L	04/03/13 02:03	
Endosulfan Sulfate	<0.00220	0.500	0.530	106	0.535	107	41-145	1	30	ug/L	04/03/13 02:03	
Endrin	<0.00140	0.500	0.483	97	0.351	70	36-158	32	30	ug/L	04/03/13 02:03	
Endrin Aldehyde	<0.00220	0.500	0.501	100	0.504	101	28-135	1	30	ug/L	04/03/13 02:03	
Endrin Ketone	<0.00130	0.500	0.560	112	0.606	121	42-134	8	30	ug/L	04/03/13 02:03	
Gamma-BHC (Lindane)	<0.000700	0.500	0.509	102	0.498	100	23-143	2	30	ug/L	04/03/13 02:03	
Gamma-Chlordane	<0.00150	0.500	0.506	101	0.508	102	25-112	0	30	ug/L	04/03/13 02:03	
Heptachlor	<0.00190	0.500	0.540	108	0.499	100	20-142	8	30	ug/L	04/03/13 02:03	
Heptachlor Epoxide	<0.000700	0.500	0.506	101	0.502	100	32-134	1	30	ug/L	04/03/13 02:03	
Methoxychlor	<0.0100	1.50	1.52	101	1.54	103	36-169	1	30	ug/L	04/03/13 02:03	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	88		77		78		27-135	%	04/03/13 02:03
Decachlorobiphenyl	104		111		112		26-154	%	04/03/13 02:03

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Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Seq Number: 910541 Matrix: Water Date Prep: 04/01/2013

MB Sample Id: 636006-1-BLK LCS Sample Id: 636006-1-BKS LCSD Sample Id: 636006-1-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	<0.00210	0.500	0.558	112	0.586	117	20-152	5	30	ug/L	04/03/13 09:56	
4,4-DDE	<0.00320	0.500	0.526	105	0.563	113	18-147	7	30	ug/L	04/03/13 09:56	
4,4-DDT	<0.00210	0.500	0.529	106	0.551	110	18-164	4	30	ug/L	04/03/13 09:56	
Aldrin	<0.00200	0.500	0.495	99	0.521	104	11-131	5	30	ug/L	04/03/13 09:56	
Alpha-BHC	<0.00170	0.500	0.533	107	0.520	104	24-141	2	30	ug/L	04/03/13 09:56	
Alpha-Chlordane	<0.00110	0.500	0.535	107	0.559	112	37-135	4	30	ug/L	04/03/13 09:56	
Beta-BHC	<0.00150	0.500	0.590	118	0.579	116	12-162	2	30	ug/L	04/03/13 09:56	
Delta-BHC	<0.000900	0.500	0.542	108	0.536	107	19-147	1	30	ug/L	04/03/13 09:56	
Dieldrin	<0.00100	0.500	0.537	107	0.556	111	35-140	3	30	ug/L	04/03/13 09:56	
Endosulfan I	<0.00200	0.500	0.535	107	0.559	112	20-135	4	30	ug/L	04/03/13 09:56	
Endosulfan II	<0.00190	0.500	0.574	115	0.593	119	34-122	3	30	ug/L	04/03/13 09:56	
Endosulfan Sulfate	<0.00220	0.500	0.573	115	0.563	113	41-145	2	30	ug/L	04/03/13 09:56	
Endrin	<0.00140	0.500	0.480	96	0.366	73	36-158	27	30	ug/L	04/03/13 09:56	
Endrin Aldehyde	<0.00220	0.500	0.543	109	0.486	97	28-135	11	30	ug/L	04/03/13 09:56	
Endrin Ketone	<0.00130	0.500	0.598	120	0.596	119	42-134	0	30	ug/L	04/03/13 09:56	
Gamma-BHC (Lindane)	<0.000700	0.500	0.506	101	0.513	103	23-143	1	30	ug/L	04/03/13 09:56	
Gamma-Chlordane	<0.00150	0.500	0.515	103	0.523	105	25-112	2	30	ug/L	04/03/13 09:56	
Heptachlor	<0.00190	0.500	0.510	102	0.508	102	20-142	0	30	ug/L	04/03/13 09:56	
Heptachlor Epoxide	<0.000700	0.500	0.512	102	0.542	108	32-134	6	30	ug/L	04/03/13 09:56	
Methoxychlor	<0.0100	1.50	1.61	107	1.67	111	36-169	4	30	ug/L	04/03/13 09:56	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	91		81		82		27-135	%	04/03/13 09:56
Decachlorobiphenyl	115		112		113		26-154	%	04/03/13 09:56

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Analytical Method: **Organochlorine Pesticides by SW-846 8081B**
Prep Method: SW3510C/3660B
Seq Number: 910531
Matrix: Water
Date Prep: 04/01/2013
Parent Sample Id: 460271-016
MS Sample Id: 460271-016 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
4,4-DDD	<0.00210	0.500	0.489	98	20-152	ug/L	04/03/13 15:12	
4,4-DDE	<0.00320	0.500	0.573	115	18-147	ug/L	04/03/13 15:12	
4,4-DDT	<0.00210	0.500	0.511	102	18-164	ug/L	04/03/13 15:12	
Aldrin	<0.00200	0.500	0.491	98	11-131	ug/L	04/03/13 15:12	
Alpha-BHC	0.0790	0.500	0.612	107	24-141	ug/L	04/03/13 15:12	
Alpha-Chlordane	<0.00110	0.500	0.588	118	37-135	ug/L	04/03/13 15:12	
Beta-BHC	7.90	0.500	8.82	184	12-162	ug/L	04/03/13 15:12	X
Delta-BHC	0.392	0.500	0.975	117	19-147	ug/L	04/03/13 15:12	
Dieldrin	<0.00100	0.500	0.506	101	35-140	ug/L	04/03/13 15:12	
Endosulfan I	<0.00200	0.500	0.530	106	20-135	ug/L	04/03/13 15:12	
Endosulfan II	<0.00190	0.500	0.514	103	34-122	ug/L	04/03/13 15:12	
Endosulfan Sulfate	<0.00220	0.500	0.564	113	41-145	ug/L	04/03/13 15:12	
Endrin	<0.00140	0.500	0.507	101	36-158	ug/L	04/03/13 15:12	
Endrin Aldehyde	<0.00220	0.500	0.517	103	28-135	ug/L	04/03/13 15:12	
Endrin Ketone	<0.00130	0.500	0.566	113	42-134	ug/L	04/03/13 15:12	
Gamma-BHC (Lindane)	0.0336	0.500	0.573	108	23-143	ug/L	04/03/13 15:12	
Gamma-Chlordane	<0.00150	0.500	0.569	114	25-112	ug/L	04/03/13 15:12	X
Heptachlor	<0.00190	0.500	0.794	159	20-142	ug/L	04/03/13 15:12	X
Heptachlor Epoxide	<0.000700	0.500	0.509	102	32-134	ug/L	04/03/13 15:12	
Methoxychlor	<0.0100	1.50	1.50	100	36-169	ug/L	04/03/13 15:12	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	99		27-135	%	04/03/13 15:12
Decachlorobiphenyl	96		26-154	%	04/03/13 15:12

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Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C/3660B

Seq Number: 910541 Matrix: Water Date Prep: 04/01/2013

Parent Sample Id: 460271-018 MS Sample Id: 460271-018 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
4,4-DDD	<0.00210	0.500	0.506	101	20-152	ug/L	04/03/13 15:29	
4,4-DDE	<0.00320	0.500	0.425	85	18-147	ug/L	04/03/13 15:29	
4,4-DDT	<0.00210	0.500	0.463	93	18-164	ug/L	04/03/13 15:29	
Aldrin	<0.00200	0.500	0.480	96	11-131	ug/L	04/03/13 15:29	
Alpha-BHC	1.79	0.500	2.69	180	24-141	ug/L	04/03/13 15:29	X
Alpha-Chlordane	<0.00110	0.500	0.529	106	37-135	ug/L	04/03/13 15:29	
Beta-BHC	24.6	0.500	27.0	480	12-162	ug/L	04/03/13 15:29	X
Delta-BHC	1.25	0.500	2.17	184	19-147	ug/L	04/03/13 15:29	X
Dieldrin	<0.00100	0.500	0.534	107	35-140	ug/L	04/03/13 15:29	
Endosulfan I	<0.00200	0.500	0.507	101	20-135	ug/L	04/03/13 15:29	
Endosulfan II	<0.00190	0.500	0.558	112	34-122	ug/L	04/03/13 15:29	
Endosulfan Sulfate	<0.00220	0.500	0.575	115	41-145	ug/L	04/03/13 15:29	
Endrin	<0.00140	0.500	0.546	109	36-158	ug/L	04/03/13 15:29	
Endrin Aldehyde	<0.00220	0.500	0.493	99	28-135	ug/L	04/03/13 15:29	
Endrin Ketone	<0.00130	0.500	0.547	109	42-134	ug/L	04/03/13 15:29	
Gamma-BHC (Lindane)	0.776	0.500	1.48	141	23-143	ug/L	04/03/13 15:29	
Gamma-Chlordane	<0.00150	0.500	0.550	110	25-112	ug/L	04/03/13 15:29	
Heptachlor	<0.00190	0.500	0.781	156	20-142	ug/L	04/03/13 15:29	X
Heptachlor Epoxide	<0.000700	0.500	0.504	101	32-134	ug/L	04/03/13 15:29	
Methoxychlor	<0.0100	1.50	1.47	98	36-169	ug/L	04/03/13 15:29	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	85		27-135	%	04/03/13 15:29
Decachlorobiphenyl	106		26-154	%	04/03/13 15:29

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☐ Philadelphia/New Jersey 610-955-5649
☐ South Carolina 803-543-8099 ☐ Other

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 260630 Page 1 of 3

Company-City EIC Alpharetta, GA **Phone** 770-772-7100	**Lab Only:** WO# 460271
Proj Name-Location GPA Bainbridge, Bainbridge, GA ☐ Previously done at XENCO **Project ID** 400.007	**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 Alan Sanders Signature Alan Sanders	

	Sample ID	Sampling Date	Time	Depth ft/in/m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives
1	MW-18	3/25/13	10:32		W		X	6	V	V	V
2	MW-18 Duplicate	3/25/13	10:50		W		X	6	V	V	V
3	MW-19	3/25/13	12:35		W		X	6	V	V	V
4	MW-15	3/25/13	15:01		W		X	6	V	V	V
5	MW-5D	3/26/13	8:18		W		X	6	V	V	V
6	MW-5A	3/26/13	9:34		W		X	6	V	V	V
7	MW-12	3/26/13	10:36		W		X	6	V	V	V
8	MW-8	3/26/13	11:35		W		X	6	V	V	V
9	MW-17	3/26/13	13:28		W		X	6	V	V	V
10	MW-6	3/26/13	14:36		W		X	6	V	V	V

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 | OP pesticides by EC-608.1A | TPC-1006A | Manganese-6010C | Volatiles-GC/MS-8260B | Gases: Methane, Ethane, Ethene RSK-175

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

Remarks

Addn: Date Rcv by: From:

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) Alan Sanders	3/29/13 10:55	2) ML Mabe	3/29/13 10:55
3)	3/29/13 11:36	Dario Lagmas 3/29	13 11:36
5)		6)	

Total Containers per COC: Cooler Temp: 3.6

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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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☐ Philadelphia/New Jersey 610-955-5649
☐ South Carolina 803-543-8099 ☐ Other

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 260628

Company-City: EIC Alpharetta, GA Phone: 770-772-7100

Proj Name-Location: EPA Bainbridge - Bainbridge GA ☐ Previously done at XENCO Project ID:

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 on: 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: Alan Sanders Signature: Alan Sanders

Lab Only: WO# 460271

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	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	Organochlorine Pesticides by GC - 8081B/3660B	TOC - 9060A	Manganese - 6010C	Gasses: Methane, Ethane & Ethene - RSK	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	Remarks
1	MW-14	3/26/13	15:46		W		X	6	V	V	V										X	X	X	X					
2	EQUIPMENT BLANK	3/26/13	16:15		W		X	6	V	V	V										X	X	X	X					
3	MW-7	3/27/13	8:23		W		X	6	V	V	V										X	X	X	X					
4	MW-16	3/27/13	9:35		W		X	6	V	V	V										X	X	X	X					
5	MW-10	3/27/13	10:36		W		X	6	V	V	V										X	X	X	X					
6	MW-20	3/27/13	13:43		W		X	6	V	V	V										X	X	X	X					
7	MW-21	3/27/13	11:37		W		X	6	V	V	V										X	X	X	X					
8	MW-22	3/27/13	14:54		W		X	6	V	V	V										X	X	X	X					
9	MW-13	3/27/13	16:24		W		X	6	V	V	V										X	X	X	X					
10	~~MW-20 EXTRA~~	~~3/27/13~~	~~13:50~~		W		X	6	V	V	V										X	X	X	X					

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) AS. Alan Sanders	3/29/13 10:55	2) ML Mark	3/29 10:55
3)	3/29/13 11:36	4) David Cagmar	3/29/13 11:36
5)		6)	

Total Containers per COC: Cooler Temp: 9.2

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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☐ Philadelphia/New Jersey 610-955-5649
☐ South Carolina 803-543-8099 ☐ Other

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 260629

Company-City: EIC, Alpharetta, GA Phone: 770-772-7100
Lab Only: WO# 460271

Proj Name-Location: GP/A Bainbridge - Bainbridge GA ☐ Previously done at XENCO Project ID:
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: Alan Sanders Signature: Alan Sanders

	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	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	Organochlorine Pesticides by GC-ECD 8081A	TCL - 8260A	Manganese - 6010C	Glass - Methane, Ethane, Ethene - RSK-175	9056A Chloride, Nitrate and 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	Remarks
1	MW-20-EXTRA	3/27/13	13:50		W		X	1	-	A	NA									X					Lab Matrix Spike				1
2	MW-22-EXTRA	3/27/13	15:00		W		X	1	1	A	NA									X					Lab Matrix Spike				2
3	MW-1	3/28/13	8:35		W		X	7	V	V	V									X	X	X	X	X					3
4	MW-1A	3/28/13	9:49		W		X	7	V	V	V									X	X	X	X	X					4
5	MW-4U	3/28/13	10:57		W		X	7	V	V	V									X	X	X	X	X					5
6	MW-11	3/28/13	12:43		W		X	7	V	V	V									X	X	X	X	X					6
7	MW-2	3/28/13	17:41		W		X	7	V	V	V									X	X	X	X	X					7
8																													8
9																													9
10																													10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) Alan Sanders	3/29/13 10:55	2) [illegible]	3/29/13 10:55
3) [illegible]	3/29/13 11:36	4) Dario Lagmar	3/29/13 11:36
5)		6)	

Total Containers per COC: Cooler Temp:

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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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Environmental International Corporation

Date/ Time Received: 03/29/2013 11:36:00 AM

Work Order #: 460271

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

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3
#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**
#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)?	**N/A**
#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#: I16497-7

Checklist completed by: Dario Lagunas Date: 03/29/2013

Checklist reviewed by: Dijana Piljak Date: 03/29/2013

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021330.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 2:38
Operator : NT
Sample : 460271-001
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:36:09 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.367	3.556	19570286	212.1E6	44.393	51.914
	Spiked Amount	50.000	Range	30 - 50	Recovery	= 88.79%#	103.83%#
22) S	Decachlor...	7.552	8.428	27034815	212.6E6	57.499	58.010m
	Spiked Amount	50.000			Recovery	= 115.00%	116.02%
	Target Compounds						
2) T	alpha-BHC	3.700	3.934	1877021	22283014	2.575	3.299 #
3) T	beta-BHC	3.943	4.209	17709265	208.7E6	74.857	88.245
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

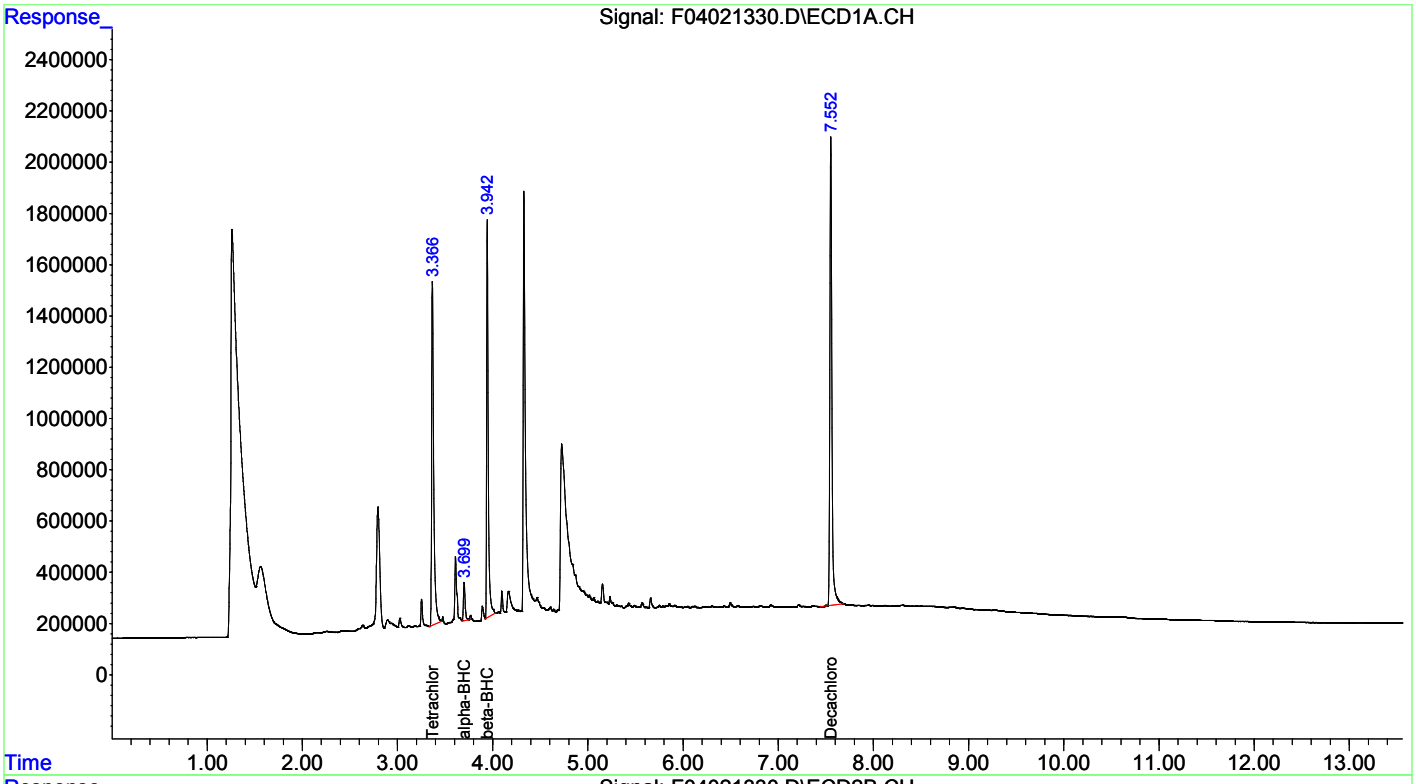
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

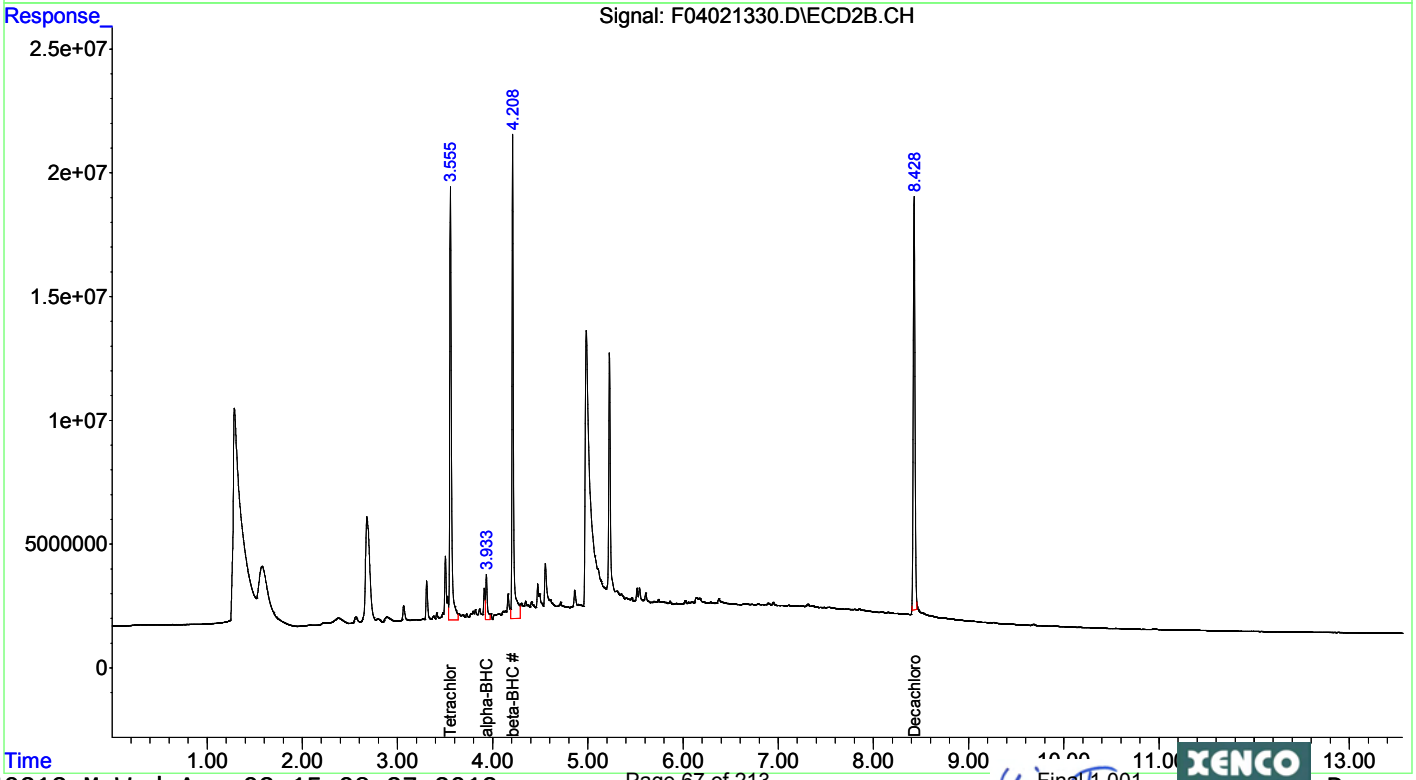
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021330.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 2:38
Operator : NT
Sample : 460271-001
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:36:09 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021331.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 2:55
Operator : NT
Sample : 460271-002
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:36:37 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.367	3.555	16423052	173.9E6	37.254	42.571
	Spiked Amount	50.000	Range 30 - 50	Recovery	=	74.51%#	85.14%#
22) S	Decachlor...	7.553	8.429	22397126	183.8E6	47.635	50.139
	Spiked Amount	50.000		Recovery	=	95.27%	100.28%
	Target Compounds						
2) T	alpha-BHC	3.699	3.934	1943957	15878474	2.666	2.351
3) T	beta-BHC	3.944	4.209	12716102	141.4E6	53.751	59.783
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

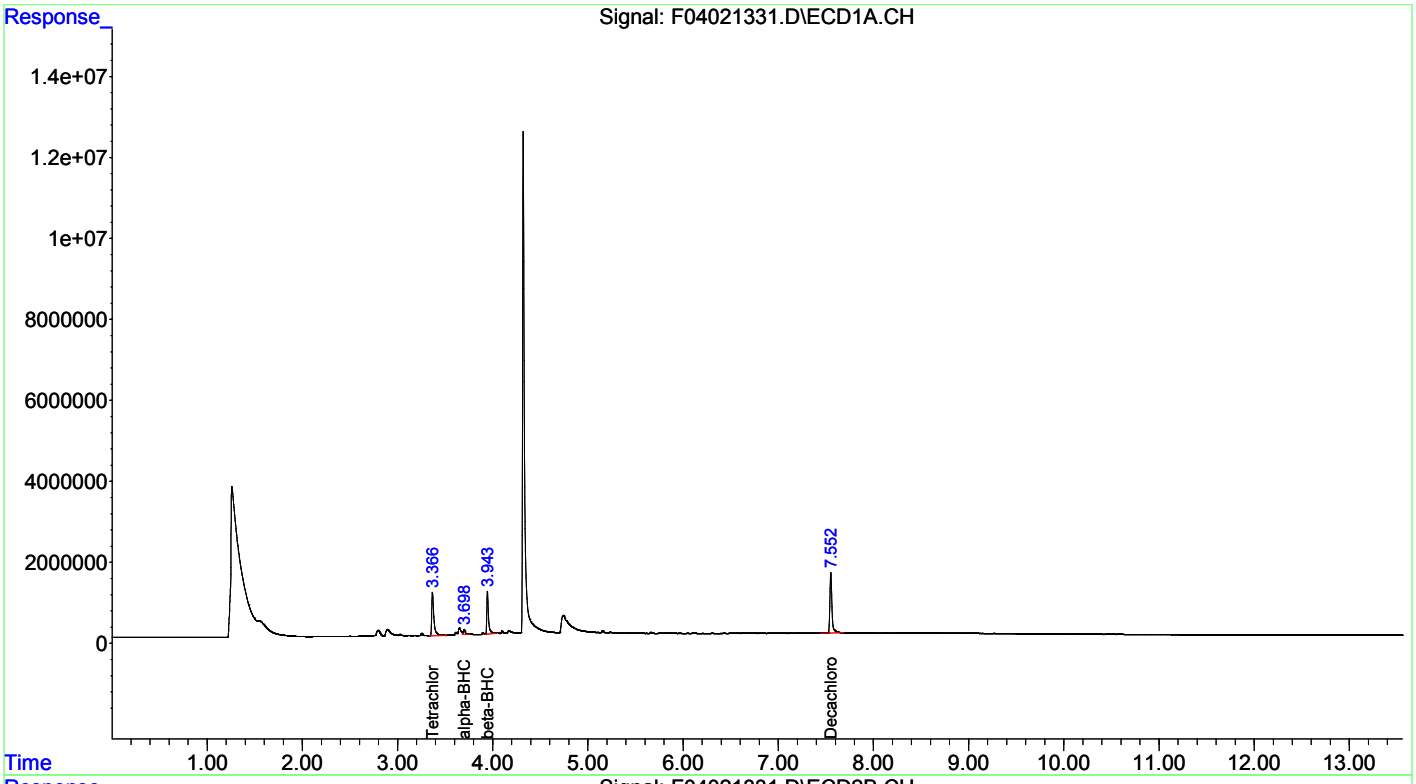
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

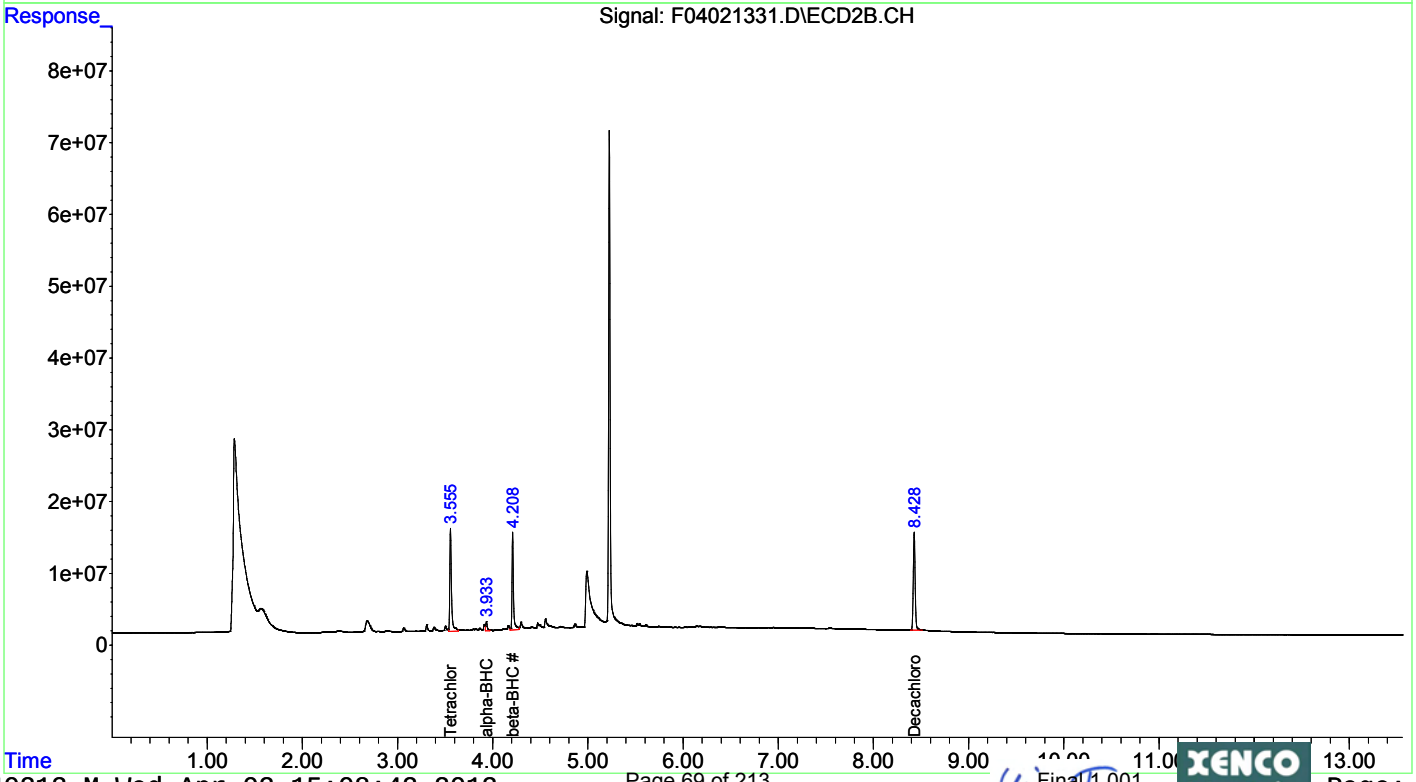
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021331.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 2:55
Operator : NT
Sample : 460271-002
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:36:37 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021332.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 3:13
Operator : NT
Sample : 460271-003
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:36:59 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S Tetrachlo...	3.368	3.556	13208362	132.9E6	29.962	32.535
Spiked Amount	50.000	Range 30 - 50		Recovery =	59.92%#	65.07%#
22) S Decachlor...	7.552	8.428	23097046	186.3E6	49.124	50.828
Spiked Amount	50.000			Recovery =	98.25%	101.66%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

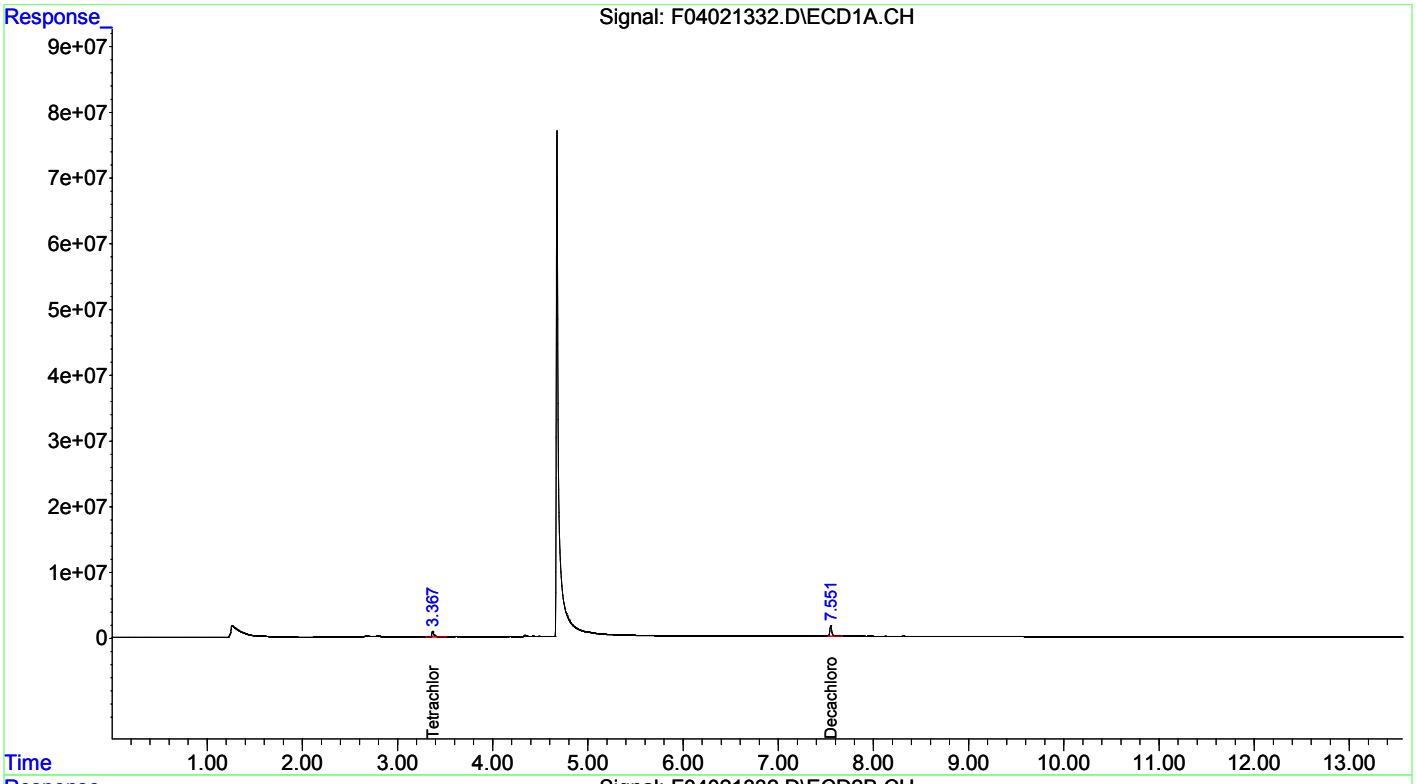
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

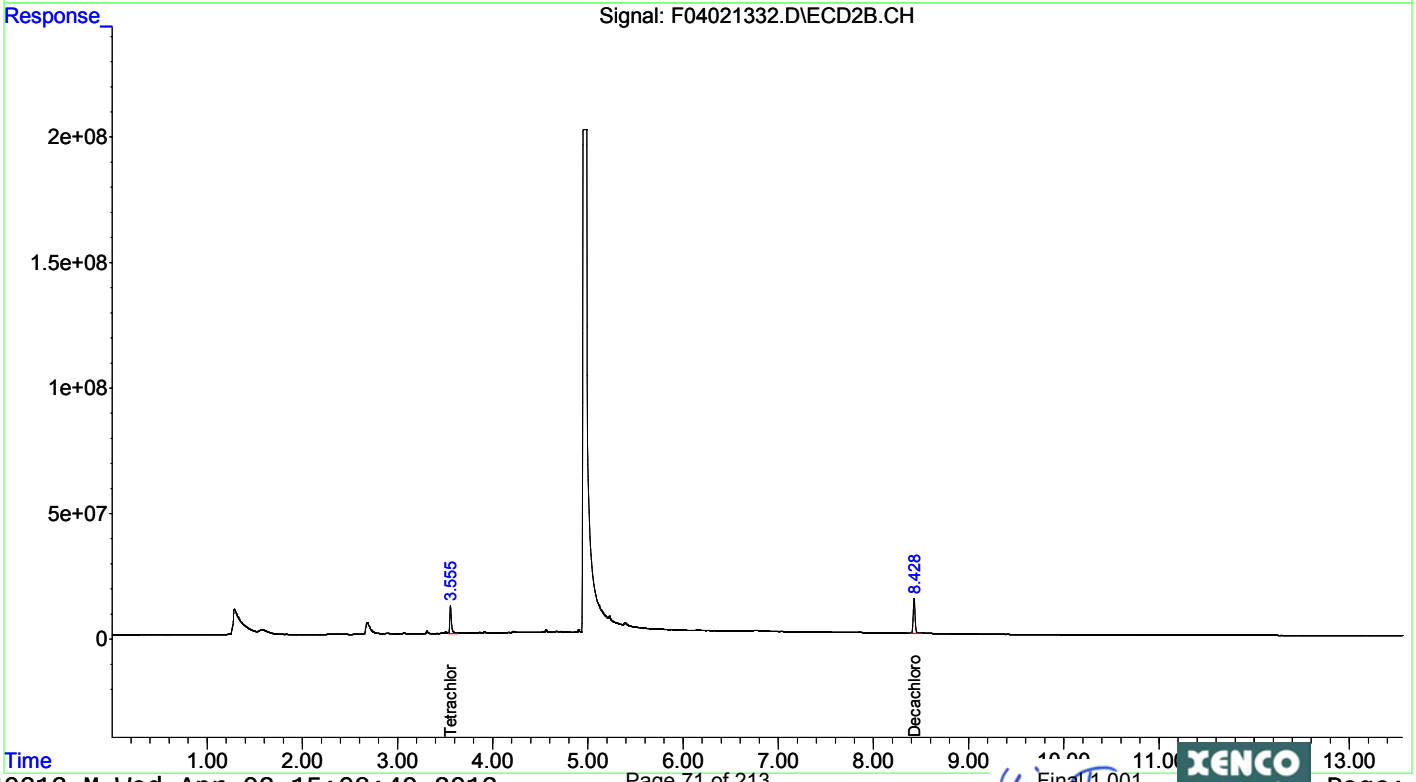
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021332.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 3:13
Operator : NT
Sample : 460271-003
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:36:59 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021333.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 3:30
Operator : NT
Sample : 460271-004
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:37:37 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.366	3.555	21726876	196.9E6	49.285m	48.184
	Spiked Amount 50.000	Range 30 - 50		Recovery =		98.57%#	96.37%#
22) S	Decachlor...	7.551	8.427	24831108	199.0E6	52.812	54.295
	Spiked Amount 50.000			Recovery =		105.62%	108.59%
	Target Compounds						
2) T	alpha-BHC	3.697	3.933	4685914	53676784	6.428	7.946m
3) T	beta-BHC	3.943	4.208	8216372	78670575	34.731	33.269m
4) T	gamma-BHC...	3.890	4.160	2475393	27679355	3.936	4.182m
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

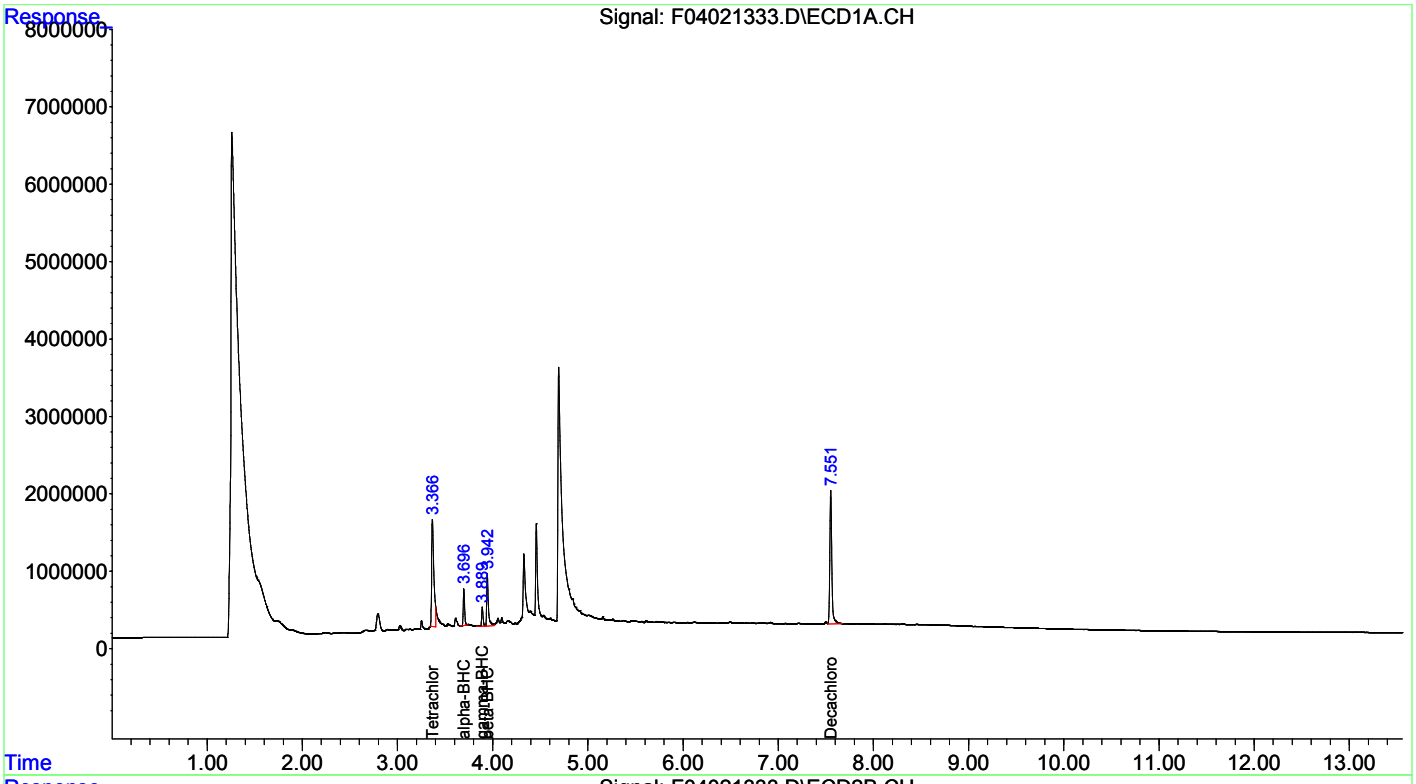
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

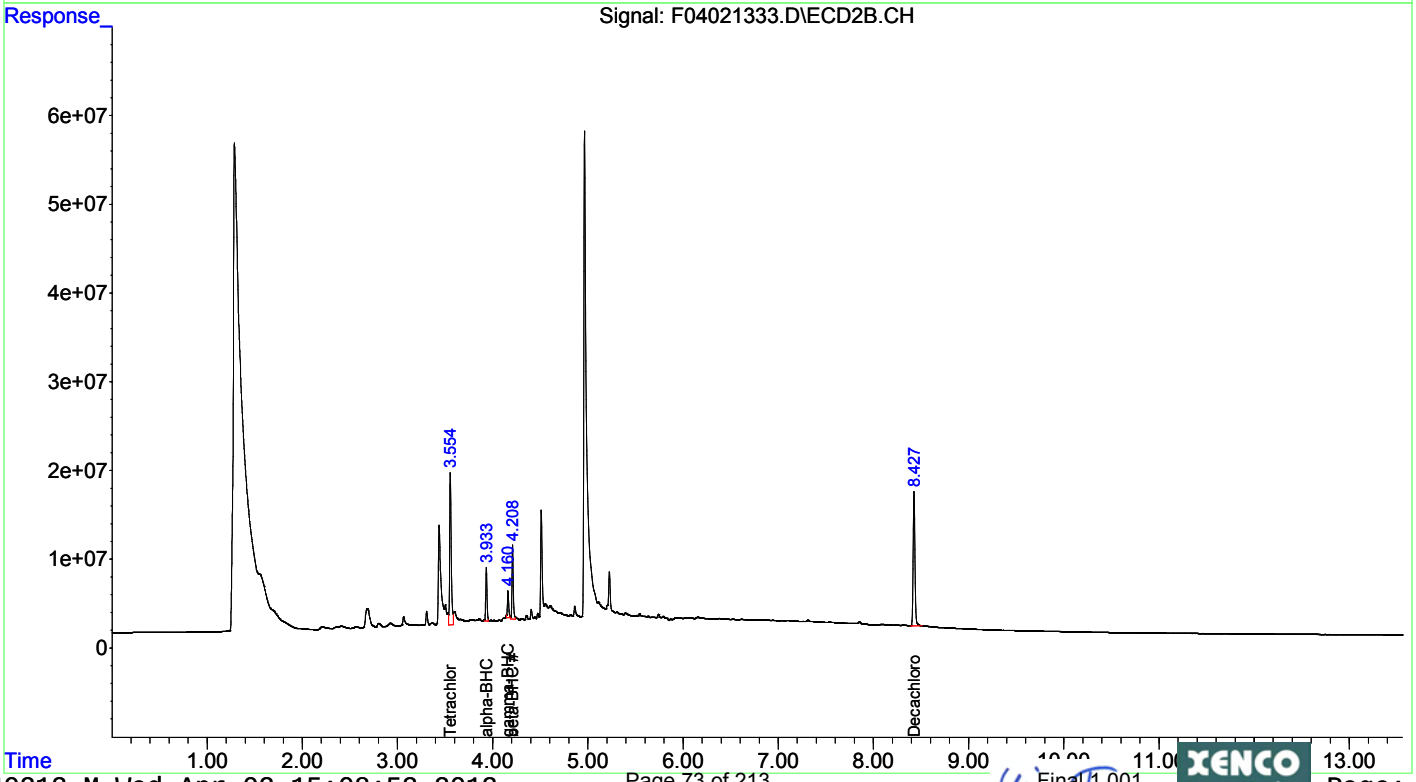
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021333.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 3:30
Operator : NT
Sample : 460271-004
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:37:37 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021334.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 3:48
Operator : NT
Sample : 460271-005
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:38:12 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S Tetrachlo...	3.367	3.555	17262806	183.8E6	39.159	44.987
Spiked Amount 50.000	Range 30 - 50		Recovery =		78.32%#	89.97%#
22) S Decachlor...	7.552	8.428	22790157	188.5E6	48.471	51.427
Spiked Amount 50.000			Recovery =		96.94%	102.85%
Target Compounds						
3) T beta-BHC	3.948	4.210	2802266	26661769	11.845	11.275m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

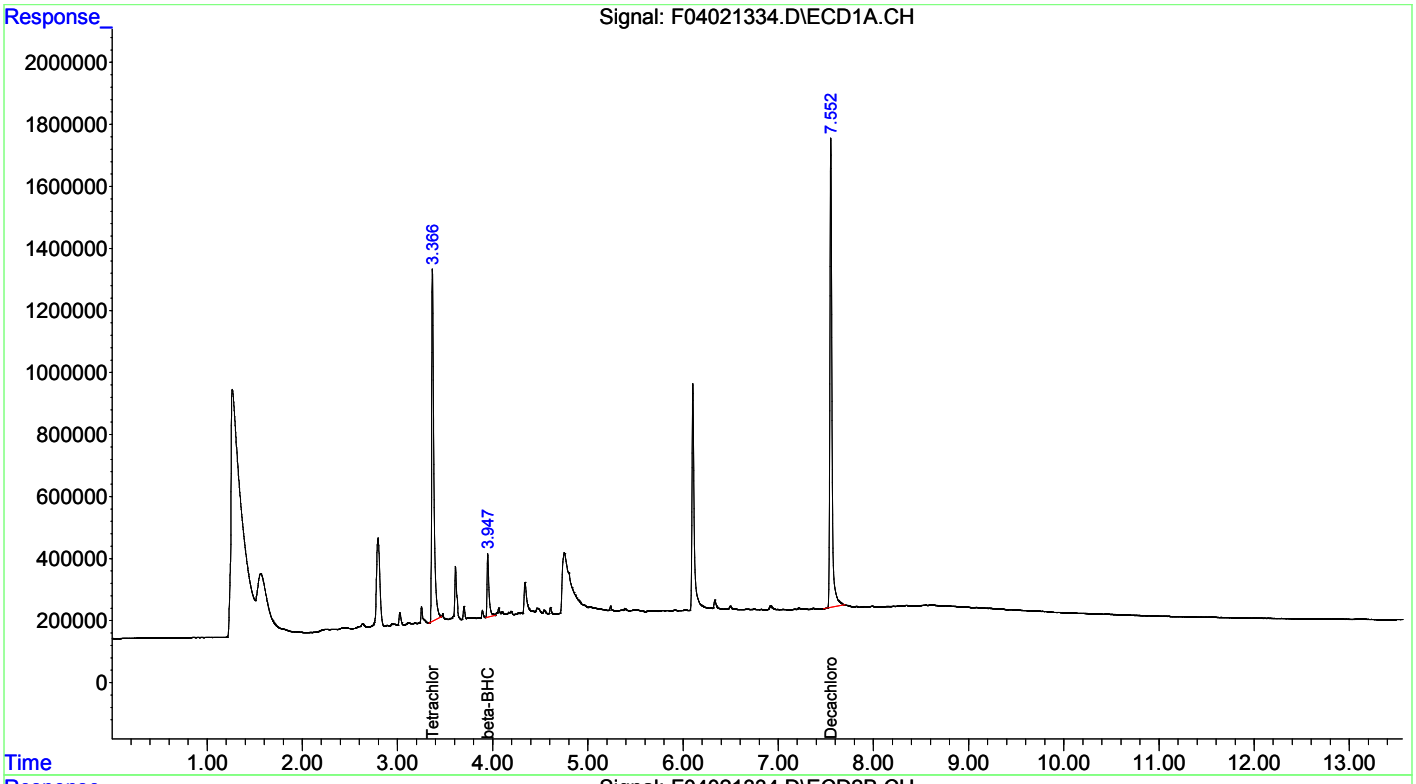
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

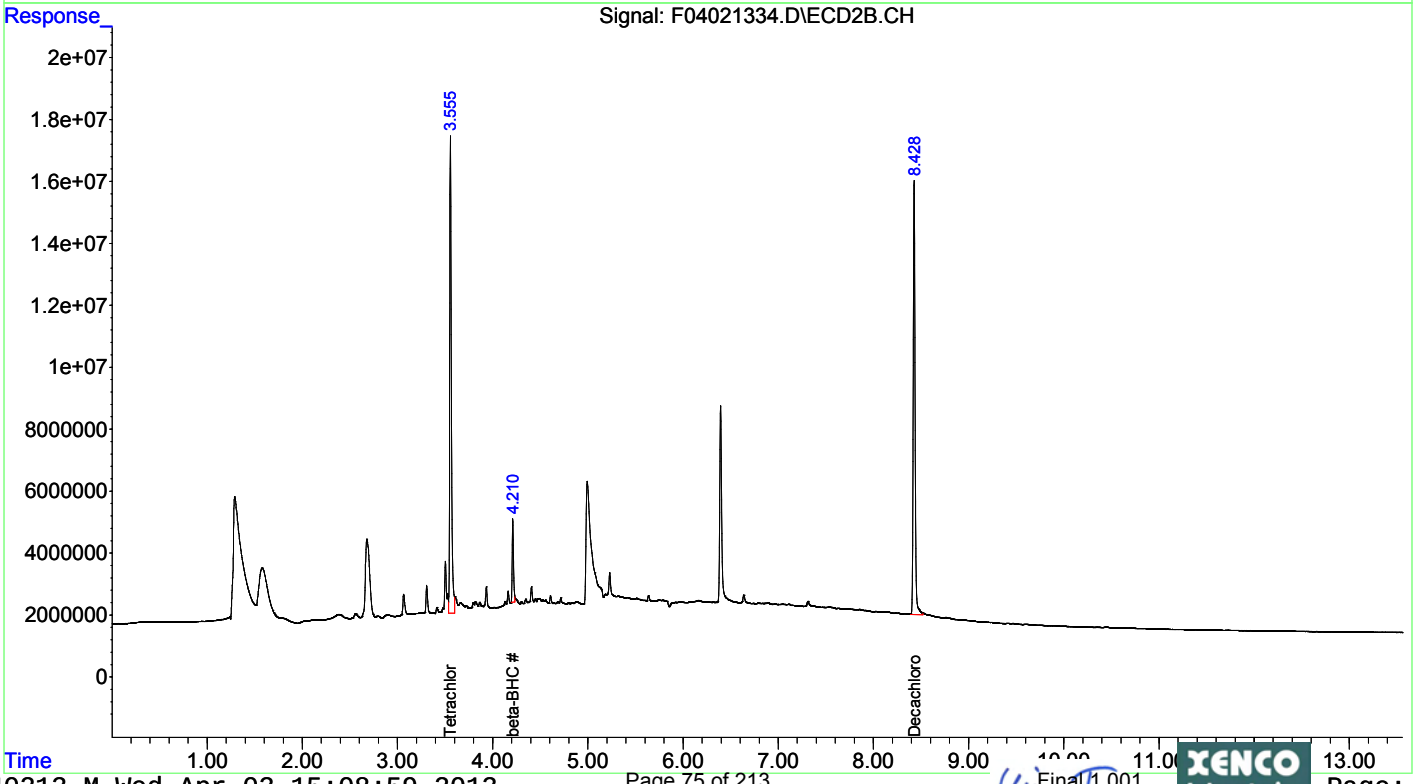
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021334.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 3:48
Operator : NT
Sample : 460271-005
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:38:12 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021335.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 4:05
Operator : NT
Sample : 460271-006
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:39:16 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.368	3.556	17000248	196.5E6	38.563	48.107
	Spiked Amount	50.000	Range	30 - 50	Recovery	= 77.13%#	96.21%#
22) S	Decachlor...	7.553	8.428	21793161	197.3E6	46.351	53.821
	Spiked Amount	50.000			Recovery	= 92.70%	107.64%
	Target Compounds						
2) T	alpha-BHC	3.698	3.934	6128678	67208882	8.407	9.950m
3) T	beta-BHC	3.941	4.208	61364172	689.0E6	259.387	291.357
4) T	gamma-BHC...	3.892	4.161	2894854	50276311	4.603	7.596 #
5) T	delta-BHC	4.061	4.407	12487547	152.7E6	23.888	24.242m
13) T	Dieldrin	5.239	5.636	141.9E6	1575.5E6	228.388	256.729
21) T	Endrin ke...	6.552	7.112	3318341	32641743	6.014	7.238
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

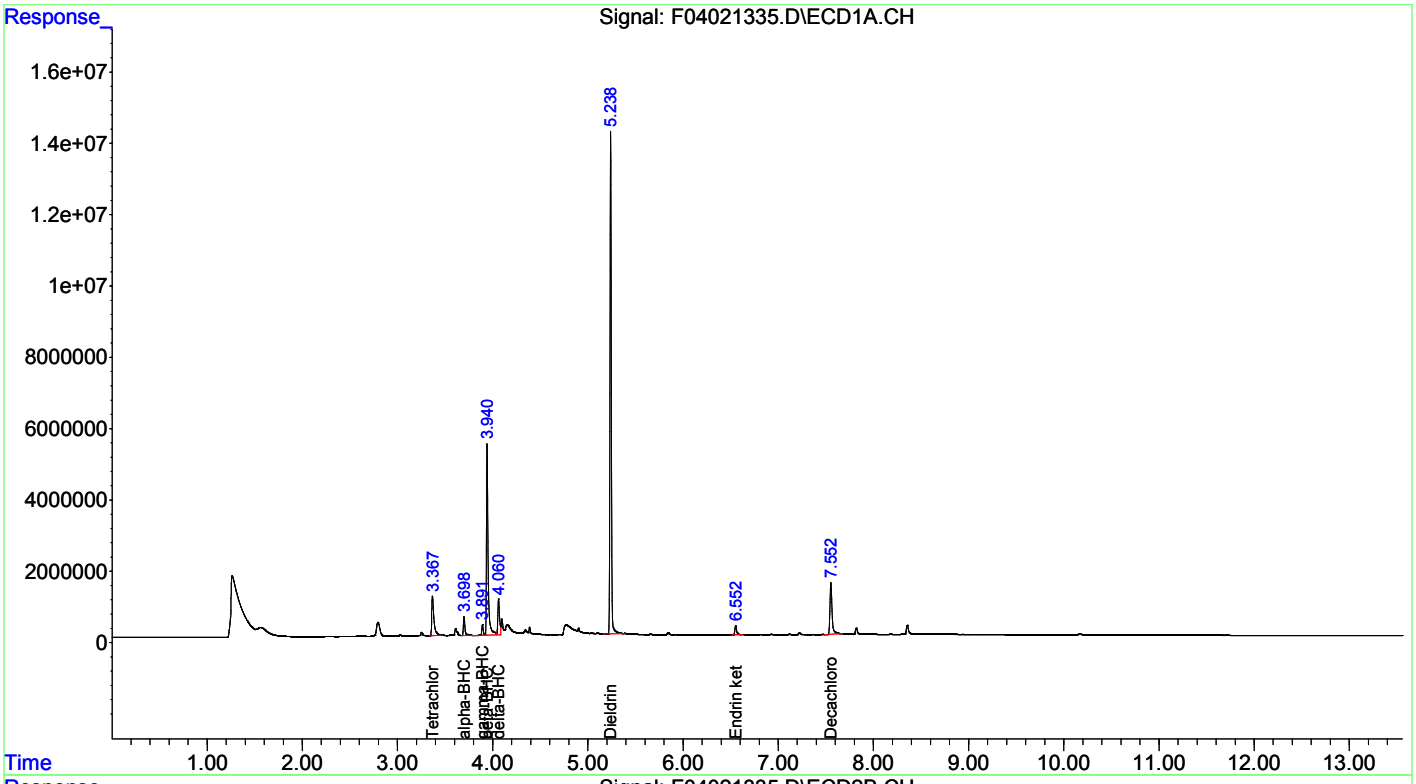
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

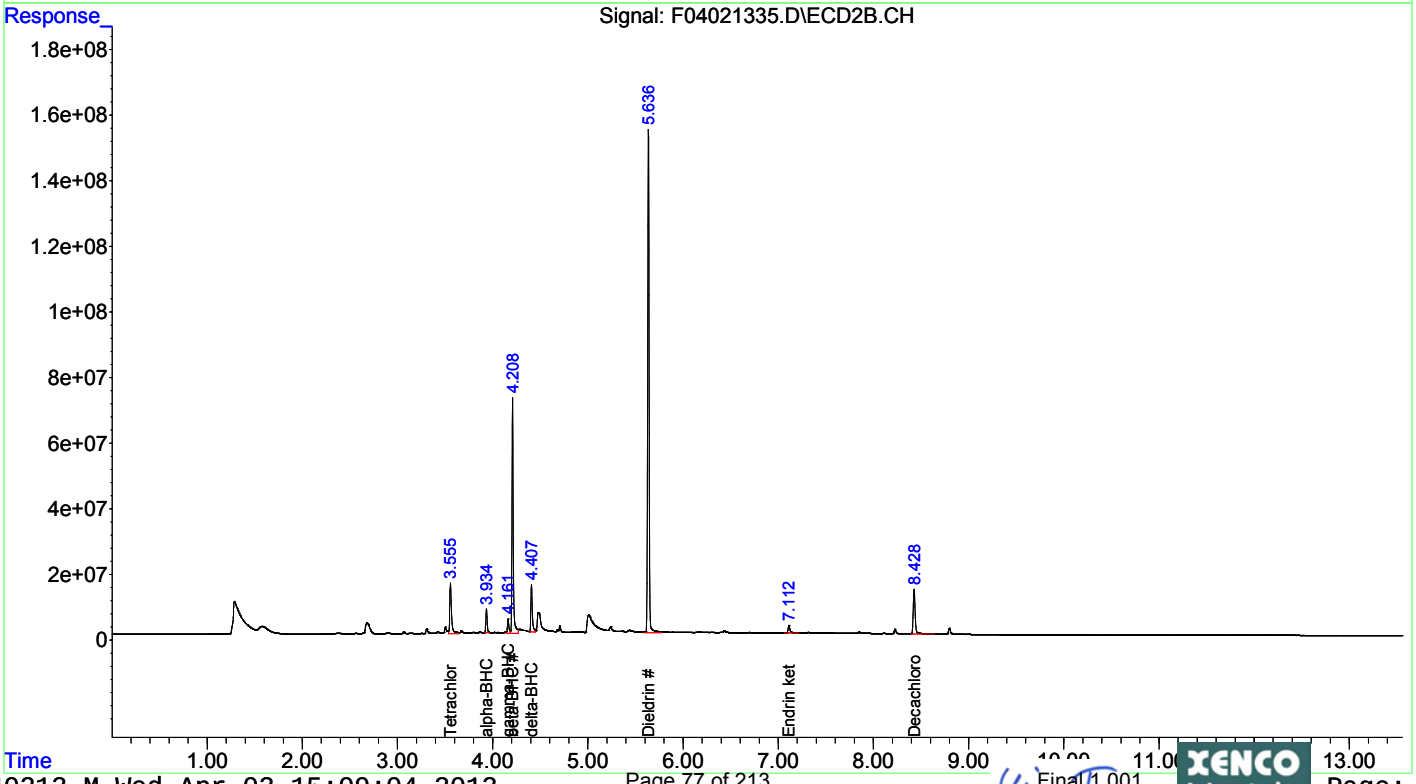
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021335.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 4:05
Operator : NT
Sample : 460271-006
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:39:16 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021362.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 12:05
Operator : NT
Sample : 460271-006DL
Misc : DF=10
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 15:04:26 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.368	3.553	1674081	18987862	3.797m	4.647m
	Spiked Amount	50.000	Range 30 - 50		Recovery =	7.59%#	9.29%#
22) S	Decachlor...	7.555	8.426	2226804	19672398	4.736	5.368m
	Spiked Amount	50.000			Recovery =	9.47%	10.74%
	Target Compounds						
3) T	beta-BHC	3.946	4.207	4936629	55230699	20.867	23.356m
13) T	Dieldrin	5.238	5.633	12358348	129.8E6	19.895	21.150
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

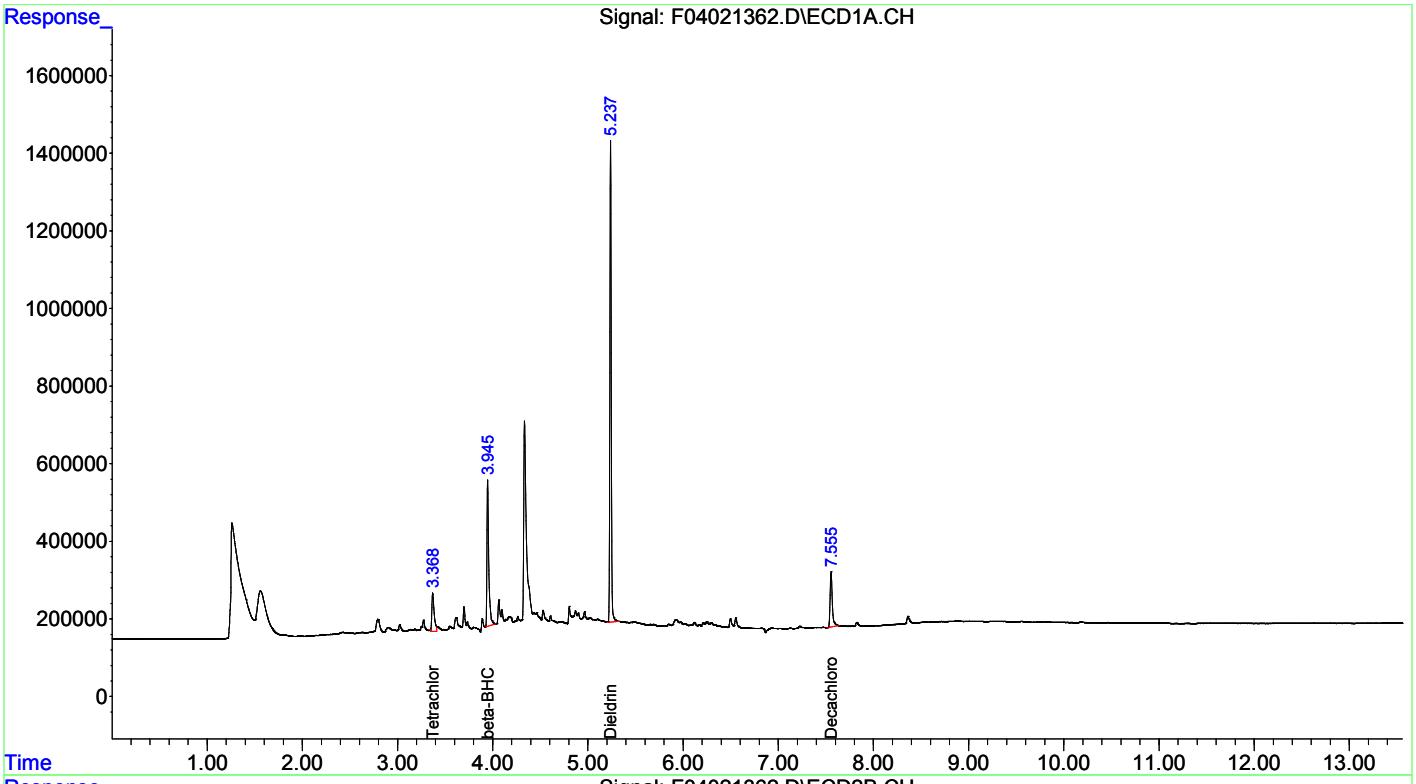
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

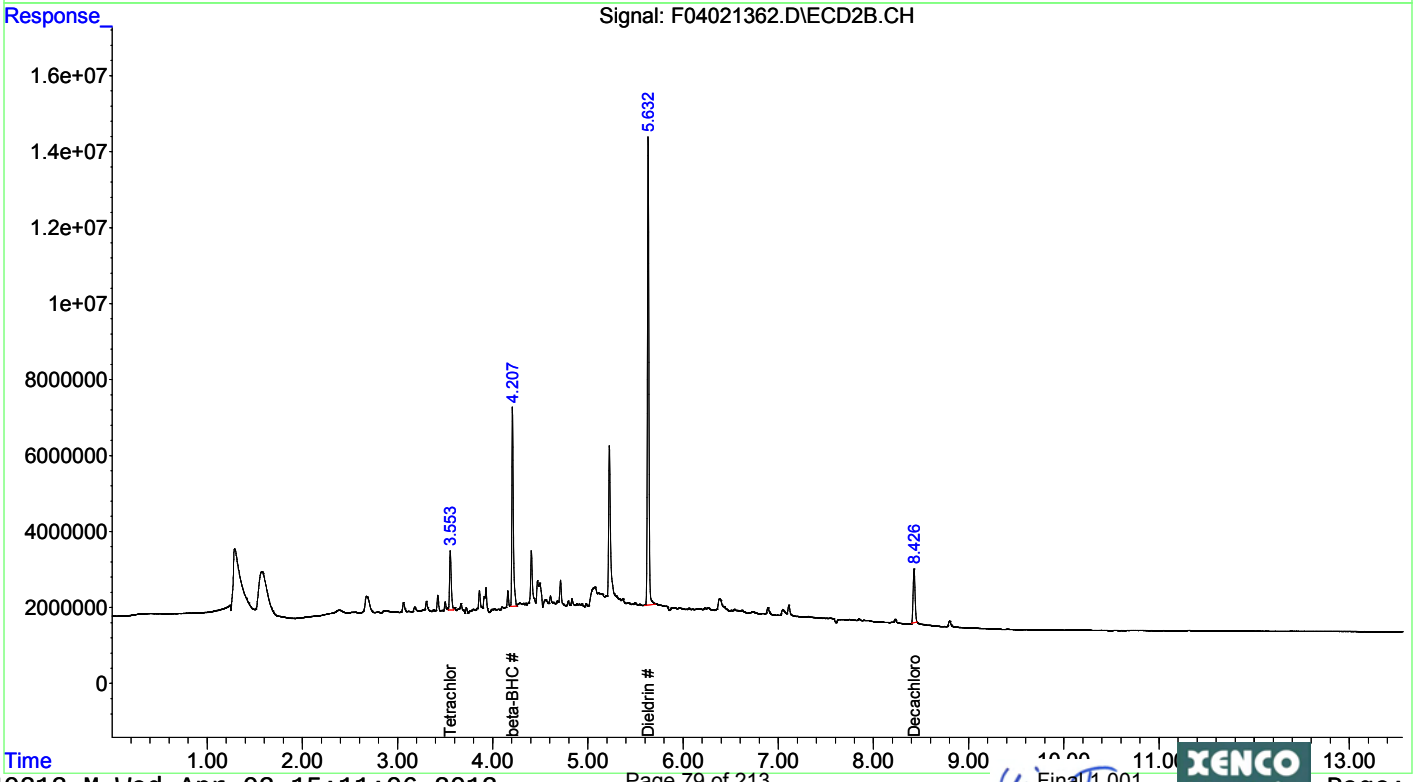
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021362.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 12:05
Operator : NT
Sample : 460271-006DL
Misc : DF=10
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 15:04:26 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021336.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 4:23
Operator : NT
Sample : 460271-007
Misc :
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:40:01 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S Tetrachlo...	3.367	3.555	19286563	195.9E6	43.749	47.956
Spiked Amount 50.000	Range 30 - 50		Recovery =		87.50%#	95.91%#
22) S Decachlor...	7.554	8.428	24876452	204.3E6	52.908	55.748
Spiked Amount 50.000			Recovery =		105.82%	111.50%
Target Compounds						
3) T beta-BHC	3.947	4.209	8088508	84928372	34.190	35.915m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

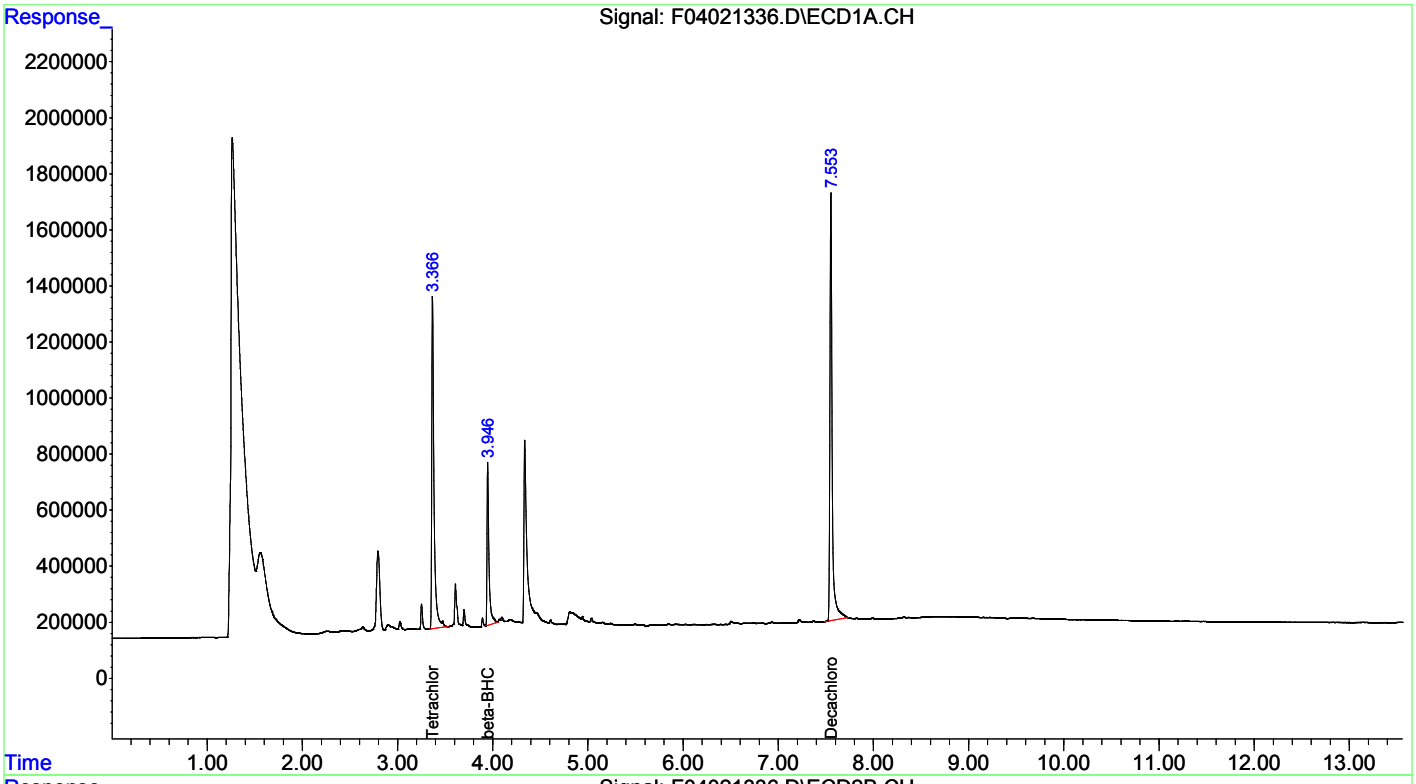
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

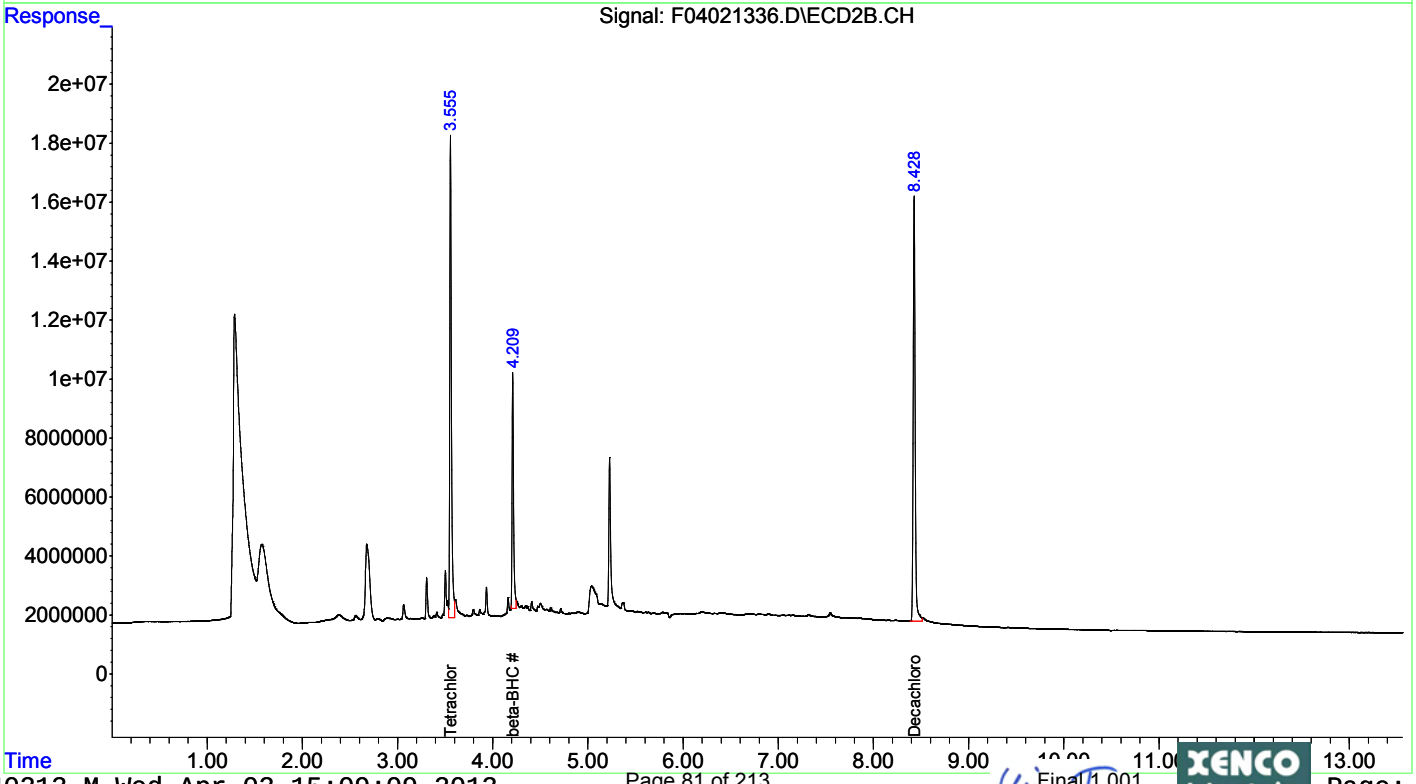
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021336.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 4:23
Operator : NT
Sample : 460271-007
Misc :
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:40:01 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021337.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 4:40
Operator : NT
Sample : 460271-008
Misc :
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:40:40 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.368	3.556	15389634	177.0E6	34.910	43.332
	Spiked Amount	50.000	Range	30 - 50	Recovery	= 69.82%#	86.66%#
22) S	Decachlor...	7.553	8.427	20671314	173.1E6	43.965	47.225
	Spiked Amount	50.000			Recovery	= 87.93%	94.45%
	Target Compounds						
2) T	alpha-BHC	3.699	3.934	1860183	21284092	2.552	3.151m
3) T	beta-BHC	3.942	4.208	37846931	447.2E6	159.980	189.111
4) T	gamma-BHC...	3.892	4.161	1843604	23835280	2.932	3.601m
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

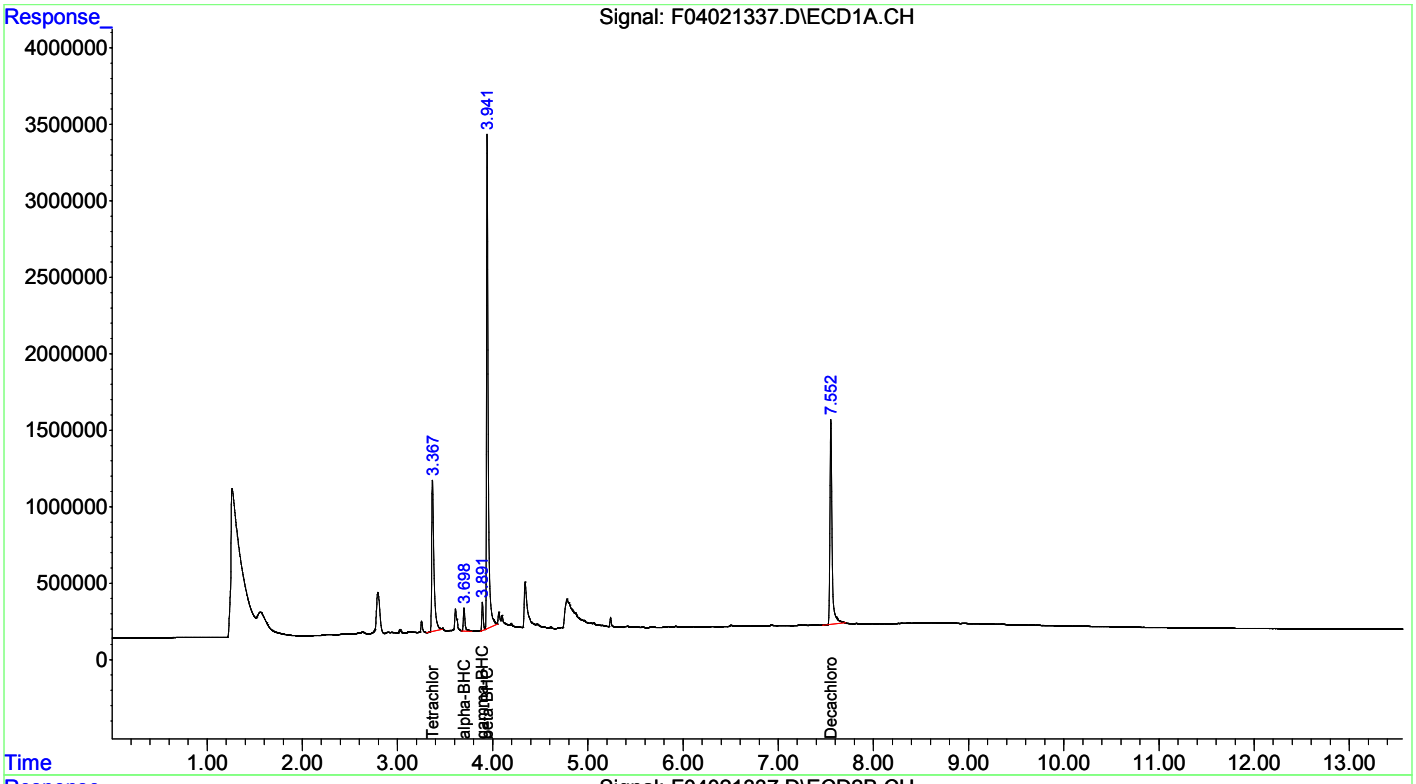
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

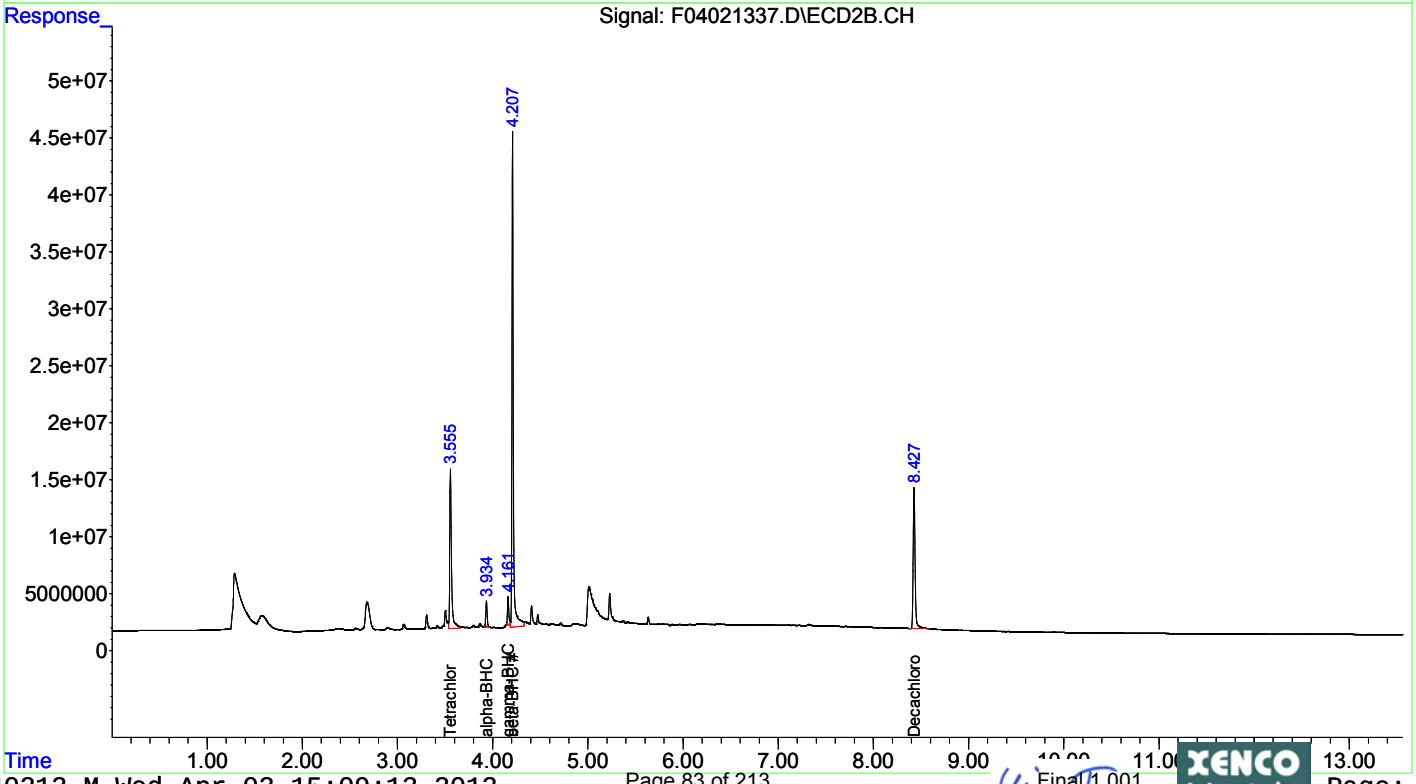
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021337.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 4:40
Operator : NT
Sample : 460271-008
Misc :
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:40:40 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021363.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 12:23
Operator : NT
Sample : 460271-008DL
Misc : DF=10
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 15:04:57 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.369	3.555	1489734	18827725	3.379m	4.608 #
	Spiked Amount	50.000	Range 30 - 50		Recovery =	6.76%#	9.22%#
22) S	Decachlor...	7.554	8.427	1993372	18445035	4.240	5.033m
	Spiked Amount	50.000			Recovery =	8.48%	10.07%
	Target Compounds						
3) T	beta-BHC	3.948	4.208	3161415	34690402	13.363	14.670m
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

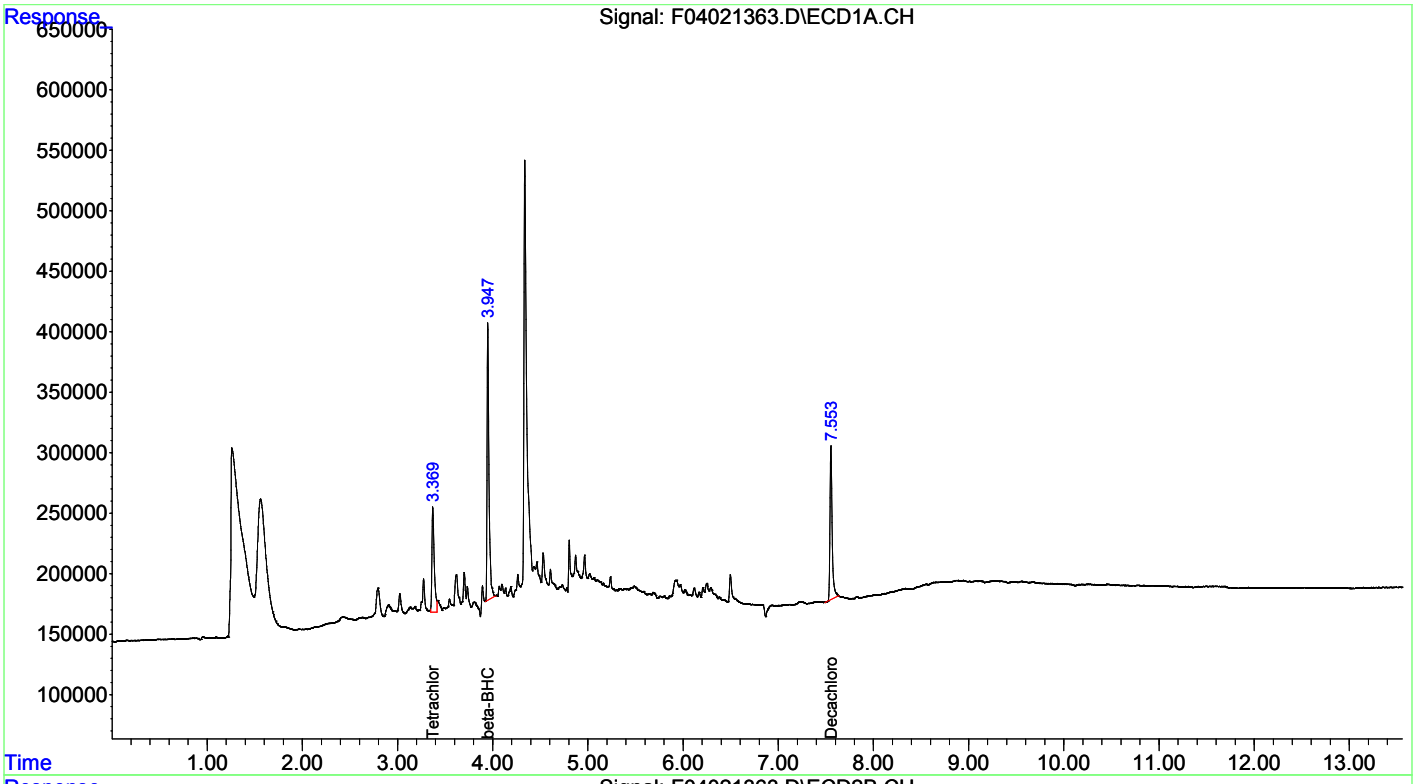
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

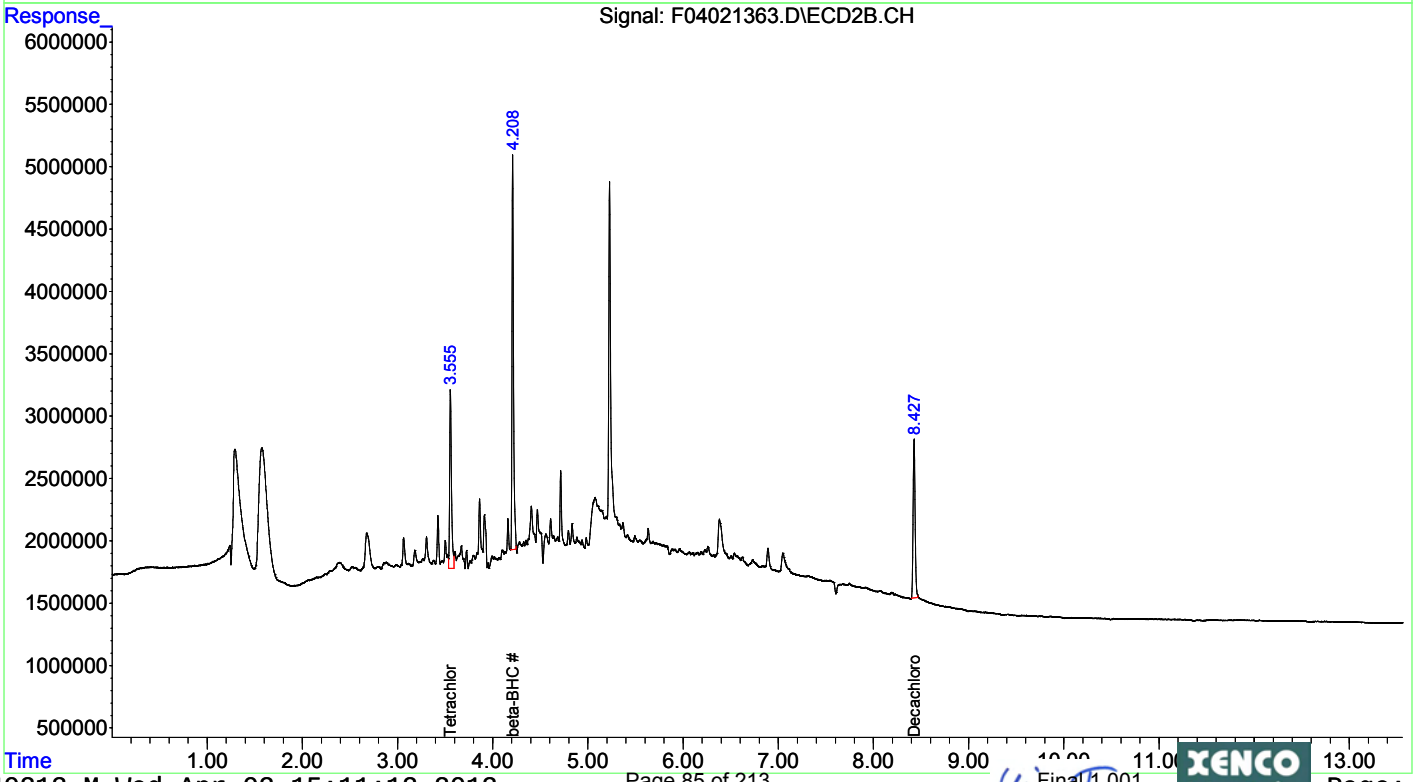
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021363.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 12:23
Operator : NT
Sample : 460271-008DL
Misc : DF=10
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 15:04:57 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021338.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 4:58
Operator : NT
Sample : 460271-009
Misc :
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:41:14 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.368	3.556	18371915	199.0E6	41.675	48.717
	Spiked Amount	50.000	Range 30 - 50		Recovery =	83.35%#	97.43%#
22) S	Decachlor...	7.554	8.428	27095317	204.4E6	57.627	55.781m
	Spiked Amount	50.000			Recovery =	115.25%	111.56%
	Target Compounds						
3) T	beta-BHC	3.948	4.210	6542657	71041028	27.656	30.042m
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

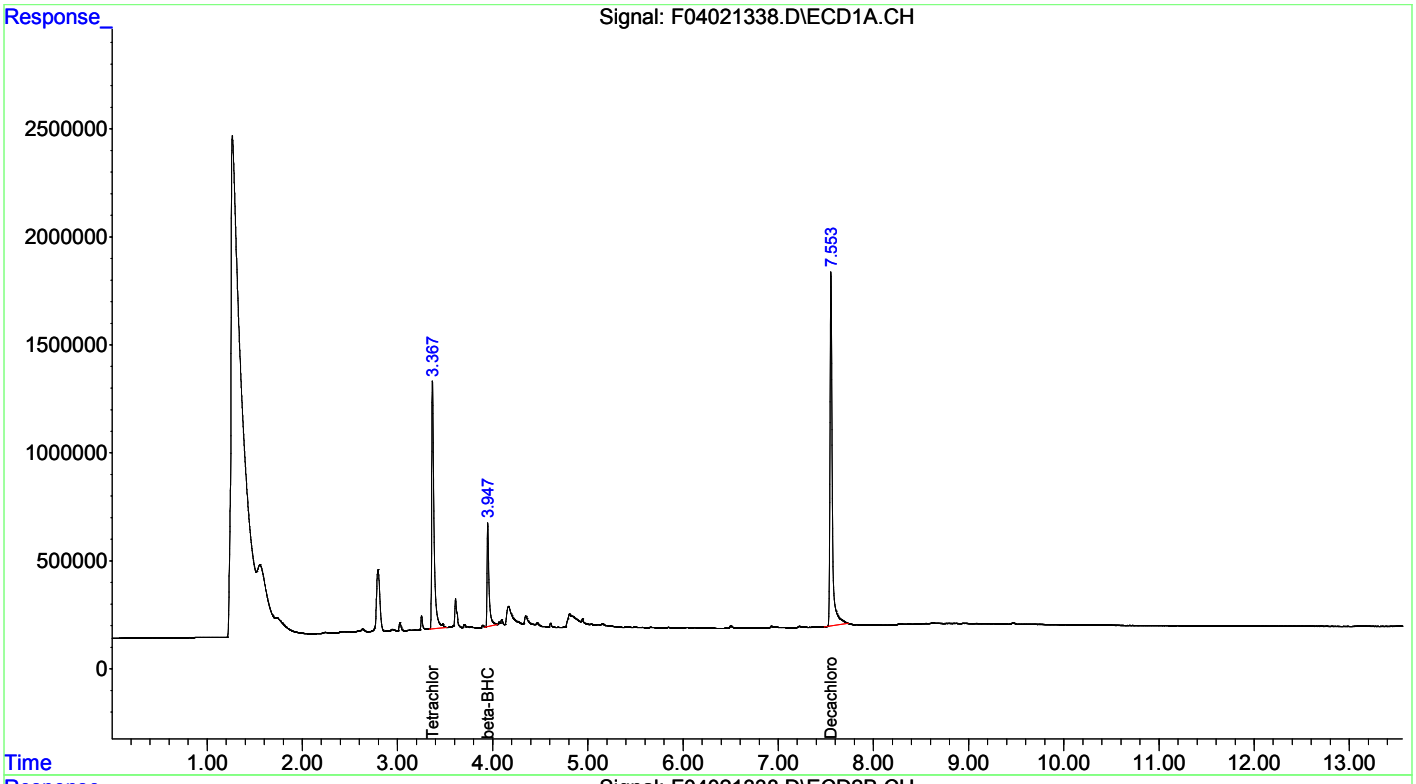
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

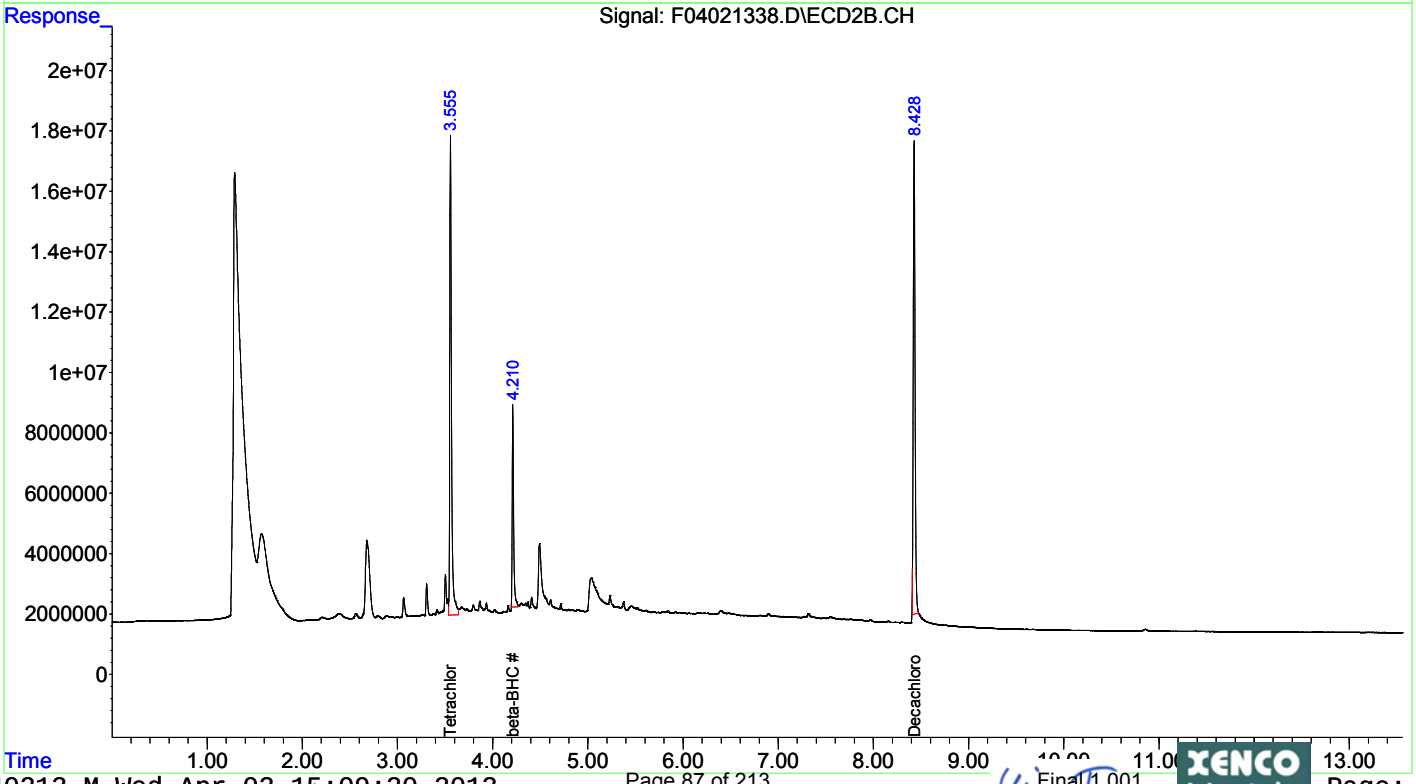
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021338.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 4:58
Operator : NT
Sample : 460271-009
Misc :
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:41:14 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021339.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 5:15
Operator : NT
Sample : 460271-010
Misc :
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:41:58 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.367	3.555	16305636	187.2E6	36.987	45.809
	Spiked Amount	50.000	Range	30 - 50	Recovery	= 73.97%#	91.62%#
22) S	Decachlor...	7.554	8.428	25259857	192.2E6	53.724	52.441m
	Spiked Amount	50.000			Recovery	= 107.45%	104.88%
	Target Compounds						
2) T	alpha-BHC	3.697	3.934	103.7E6	1203.5E6	142.206	178.169m#
3) T	beta-BHC	3.942	4.208	32328405	375.5E6	136.653	158.795
5) T	delta-BHC	4.055	4.407	161.8E6	2158.7E6	309.594	342.684m
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

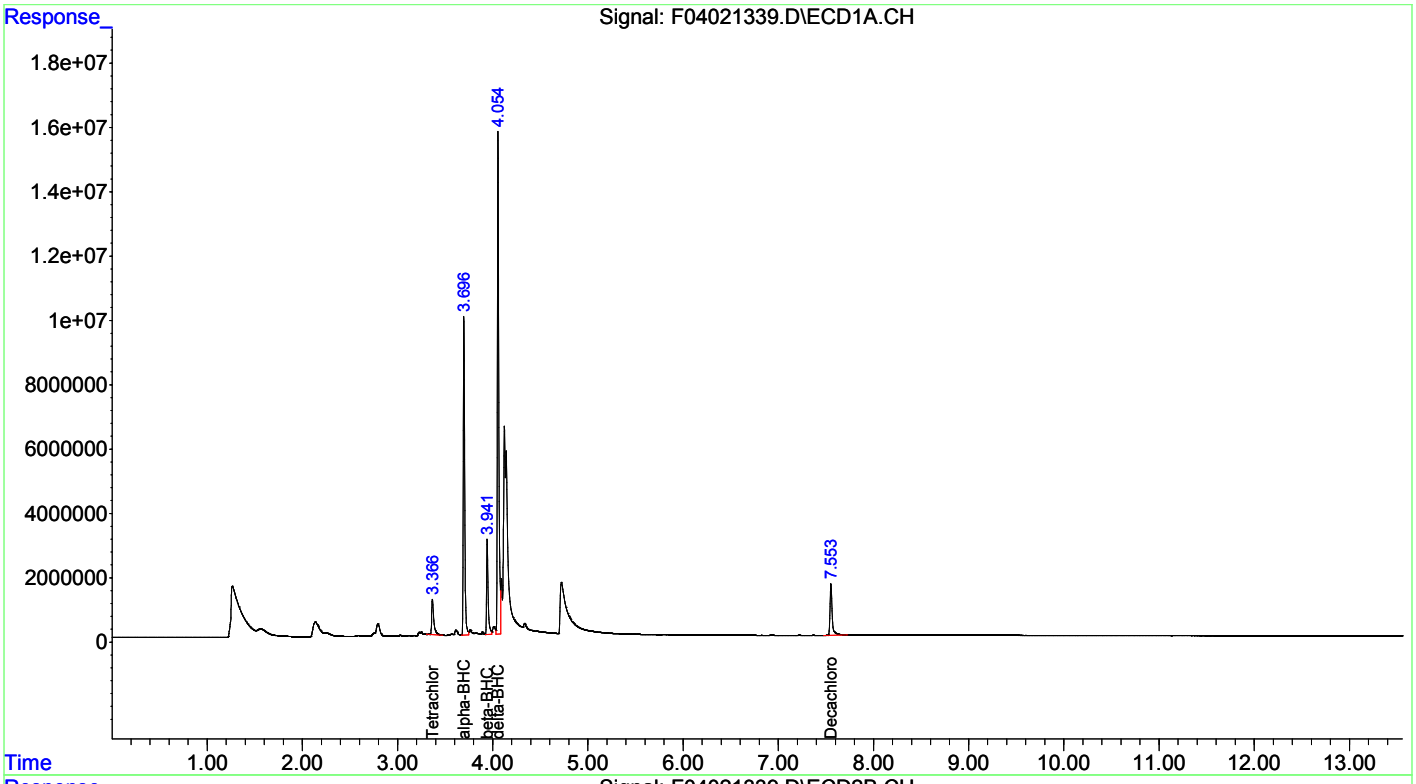
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

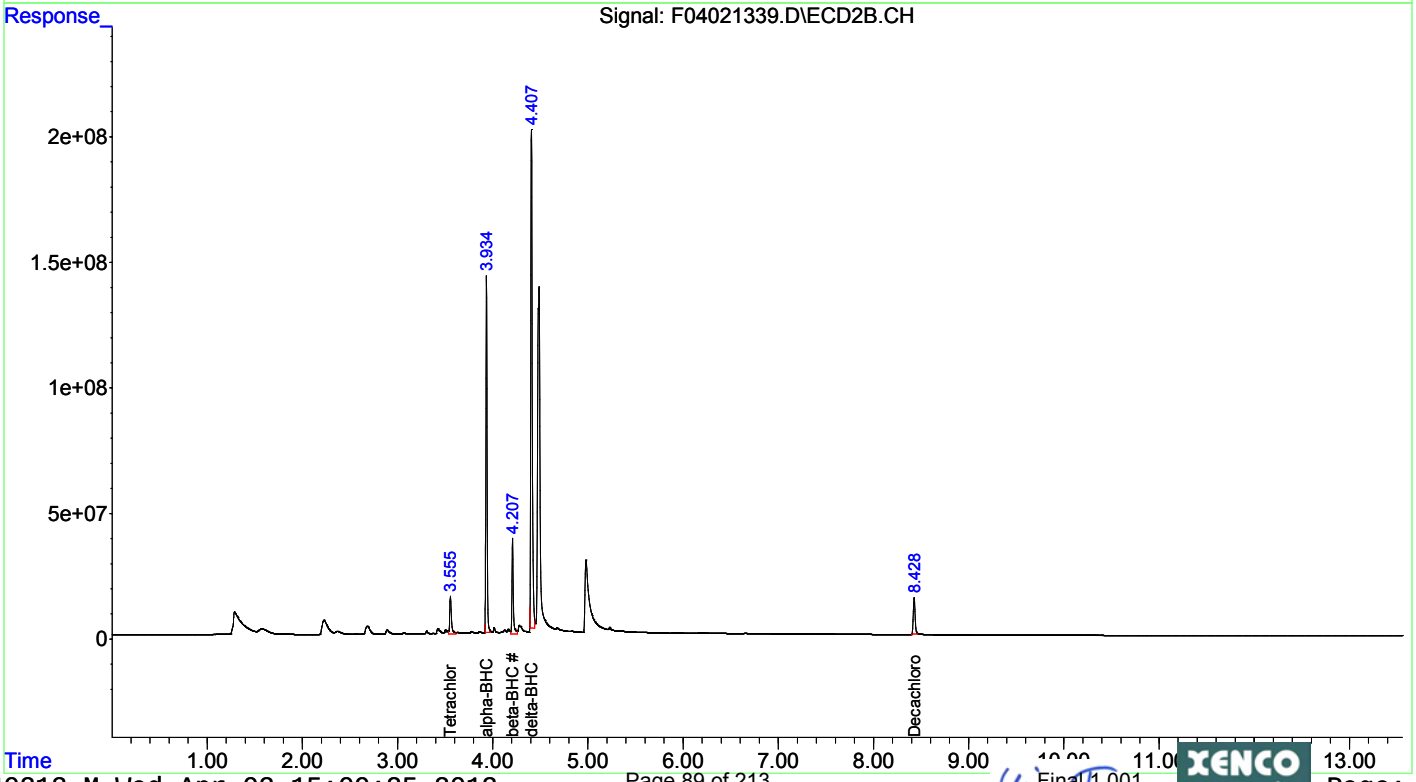
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021339.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 5:15
Operator : NT
Sample : 460271-010
Misc :
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:41:58 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021364.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 12:40
Operator : NT
Sample : 460271-010DL
Misc : DF=10
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 15:05:34 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.369	3.555	1642768	19953242	3.726m	4.884 #
	Spiked Amount	50.000	Range 30 - 50		Recovery =	7.45%#	9.77%#
22) S	Decachlor...	7.554	8.426	2399877	21097710	5.104	5.757m
	Spiked Amount	50.000			Recovery =	10.21%	11.51%
	Target Compounds						
2) T	alpha-BHC	3.697	3.932	8303586	87122330	11.390	12.898
3) T	beta-BHC	3.948	4.209	3018188	31218261	12.758	13.202
5) T	delta-BHC	4.061	4.406	12490063	159.3E6	23.893	25.283
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

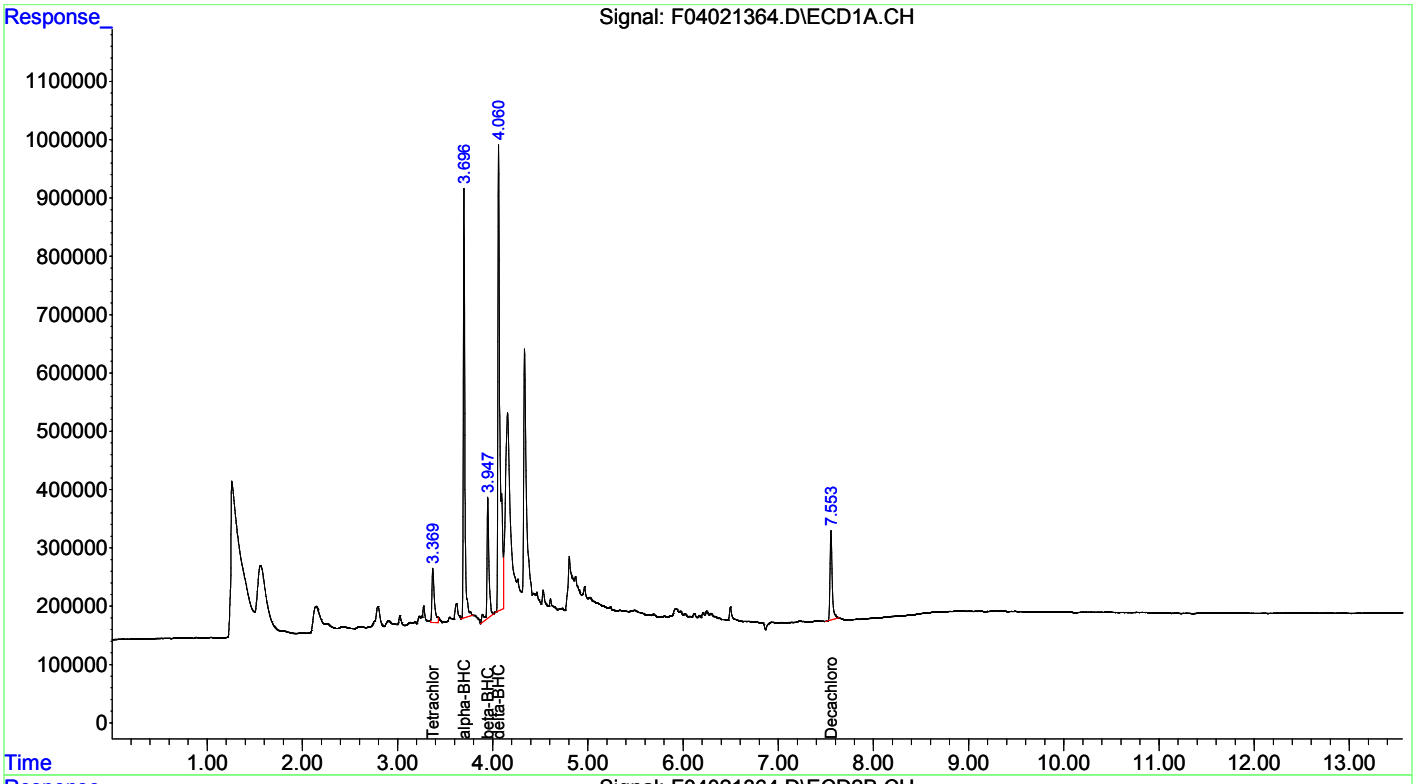
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

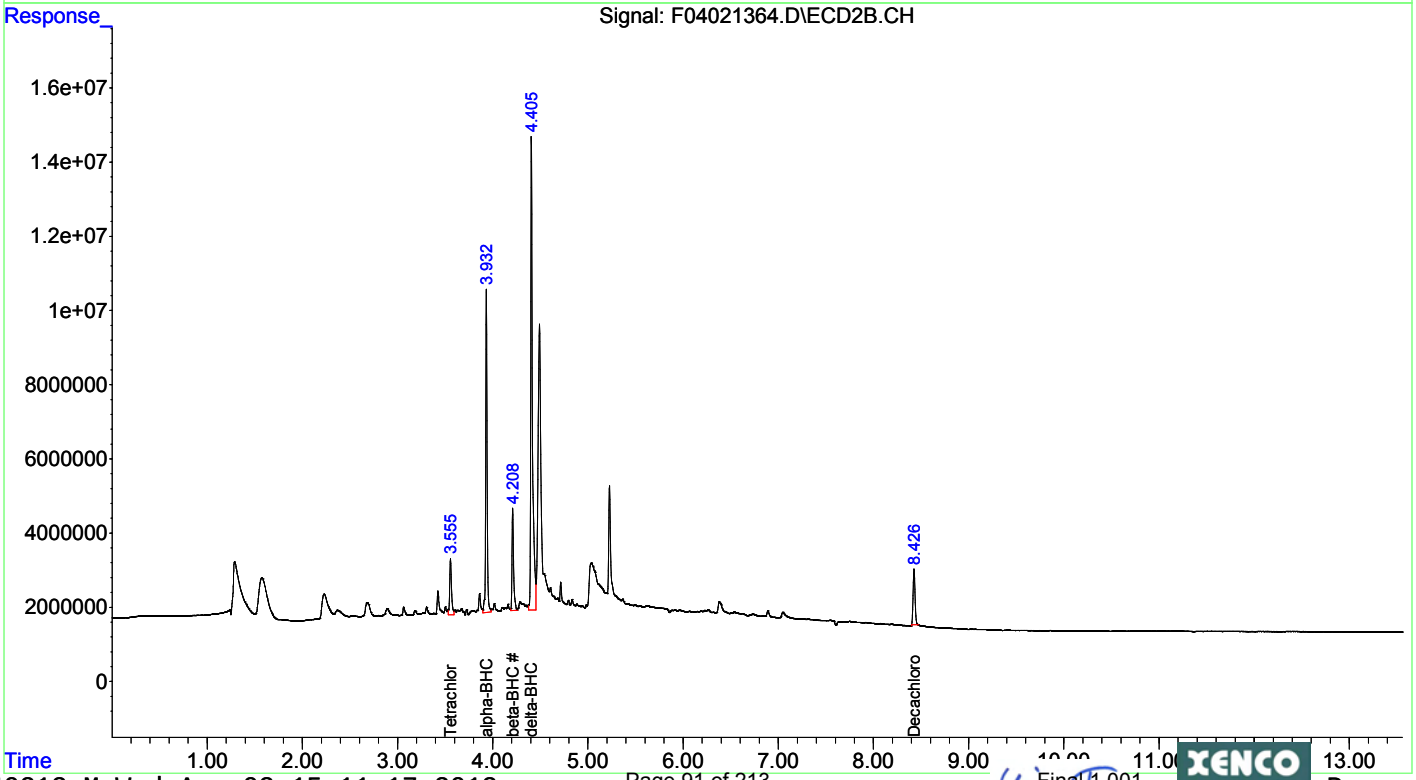
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021364.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 12:40
Operator : NT
Sample : 460271-010DL
Misc : DF=10
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 15:05:34 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021340.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 5:33
Operator : NT
Sample : 460271-011
Misc :
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:42:31 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S Tetrachlo...	3.367	3.556	18216893	195.1E6	41.323	47.746
Spiked Amount	50.000	Range 30 - 50	Recovery	=	82.65%#	95.49%#
22) S Decachlor...	7.554	8.428	25846422	190.2E6	54.971	51.909m
Spiked Amount	50.000		Recovery	=	109.94%	103.82%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

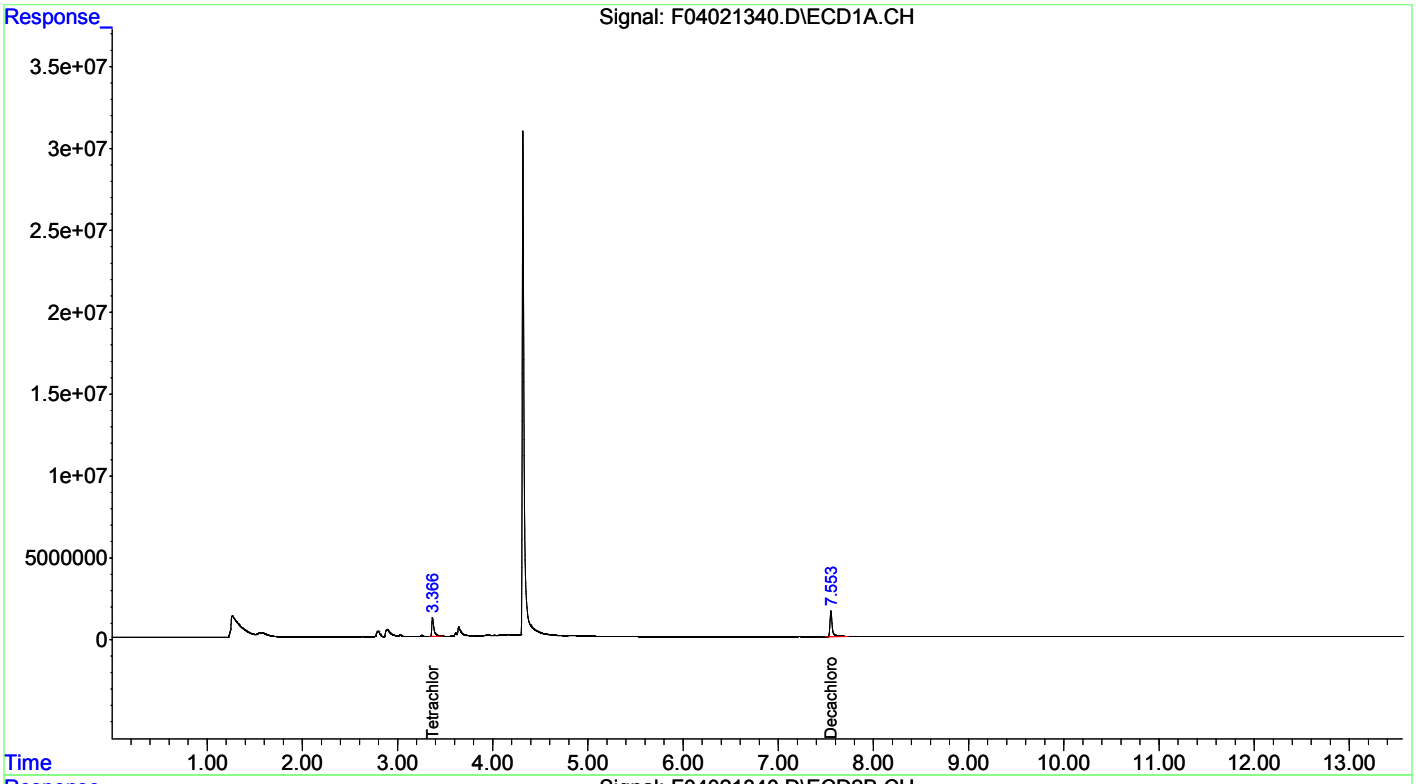
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

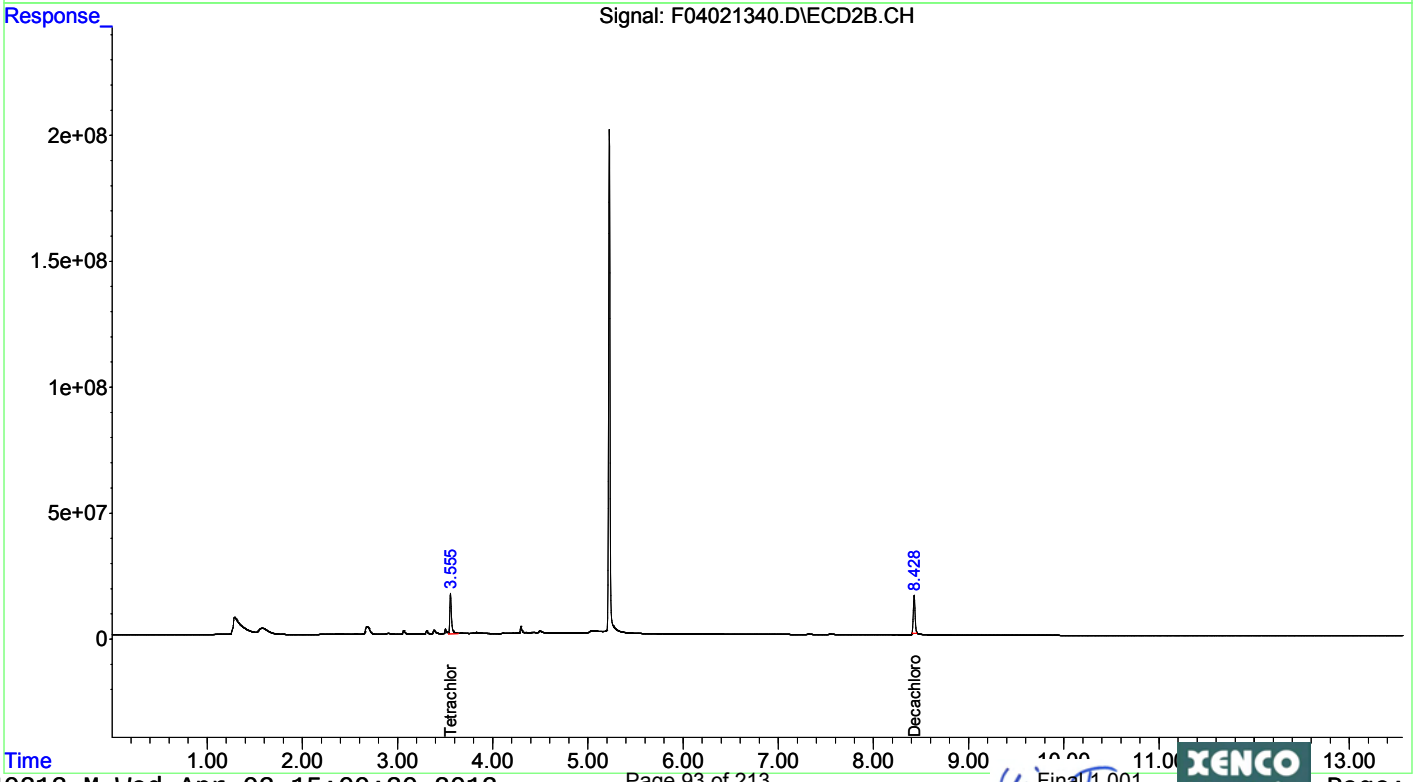
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021340.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 5:33
Operator : NT
Sample : 460271-011
Misc :
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:42:31 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021341.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 5:50
Operator : NT
Sample : 460271-012
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:43:05 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S Tetrachlo...	3.367	3.556	18958966	214.1E6	43.006	52.398
Spiked Amount 50.000	Range 30 - 50		Recovery =		86.01%#	104.80%#
22) S Decachlor...	7.555	8.428	27936859	204.9E6	59.417	55.900m
Spiked Amount 50.000			Recovery =		118.83%	111.80%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

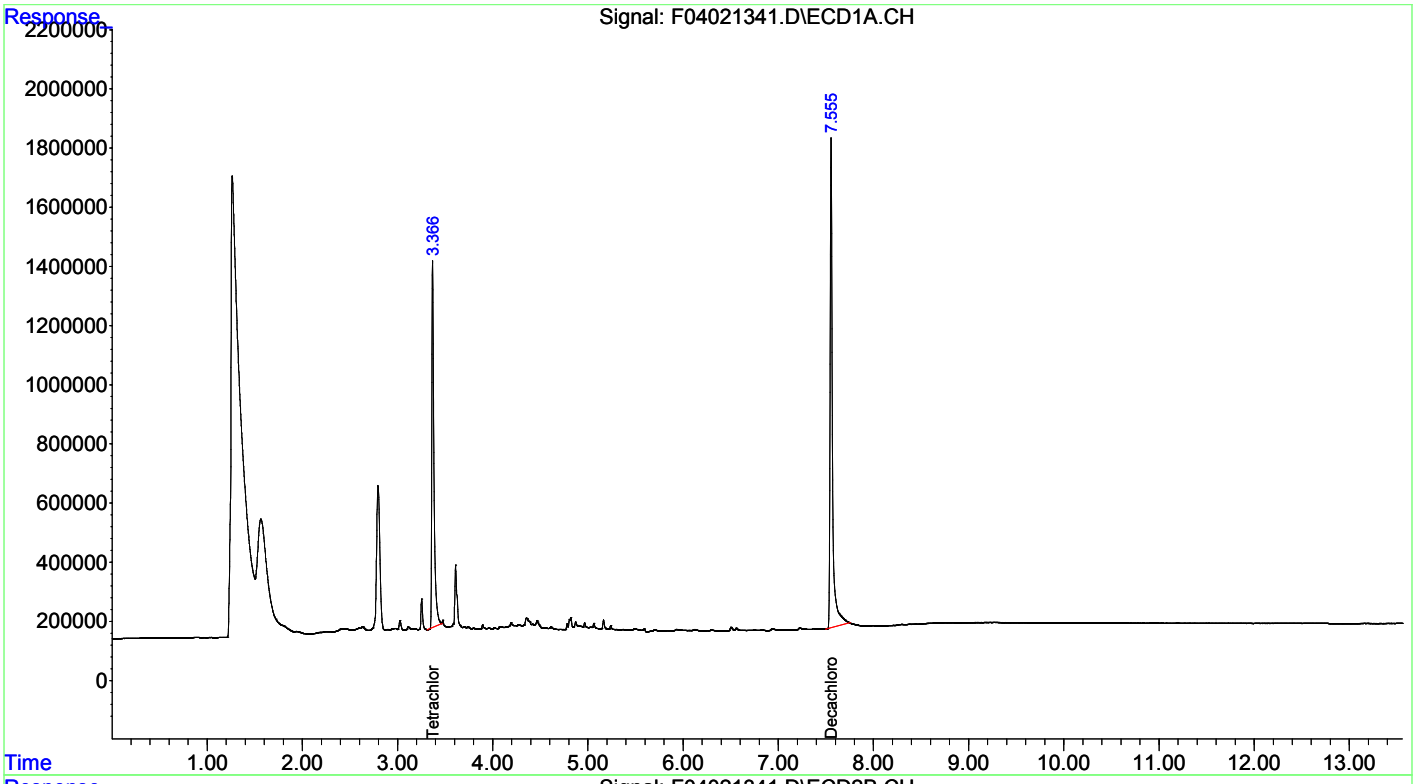
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

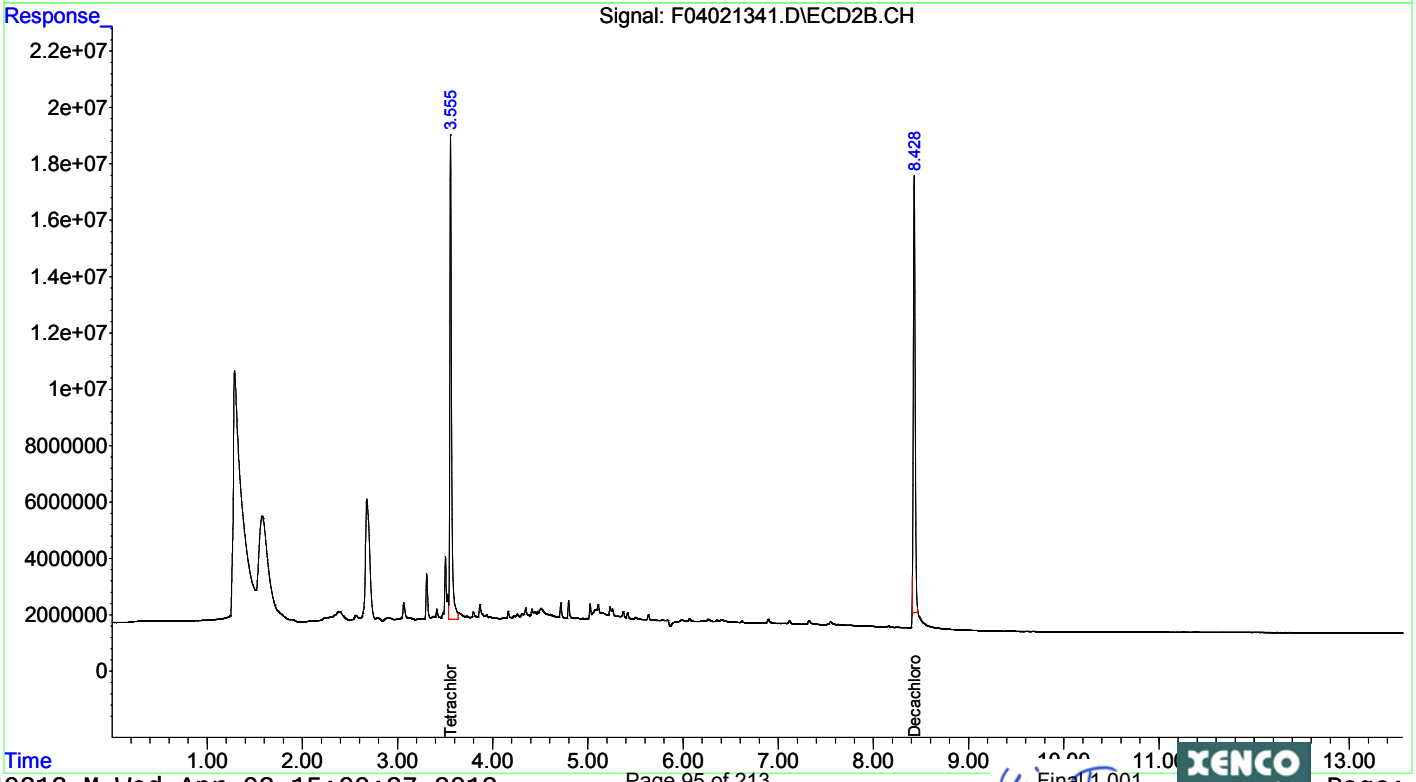
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021341.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 5:50
Operator : NT
Sample : 460271-012
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:43:05 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021342.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 6:08
Operator : NT
Sample : 460271-013
Misc :
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:43:35 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.370	3.557	10798883	115.6E6	24.496	28.294
	Spiked Amount	50.000	Range 30 - 50	Recovery =		48.99%	56.59%#
22) S	Decachlor...	7.553	8.427	27167996	213.6E6	57.782	58.269m
	Spiked Amount	50.000		Recovery =		115.56%	116.54%
	Target Compounds						
2) T	alpha-BHC	3.699	3.934	1736454	20287402	2.382	3.003m#
3) T	beta-BHC	3.949	4.210	5970662	64470675	25.238	27.264m
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

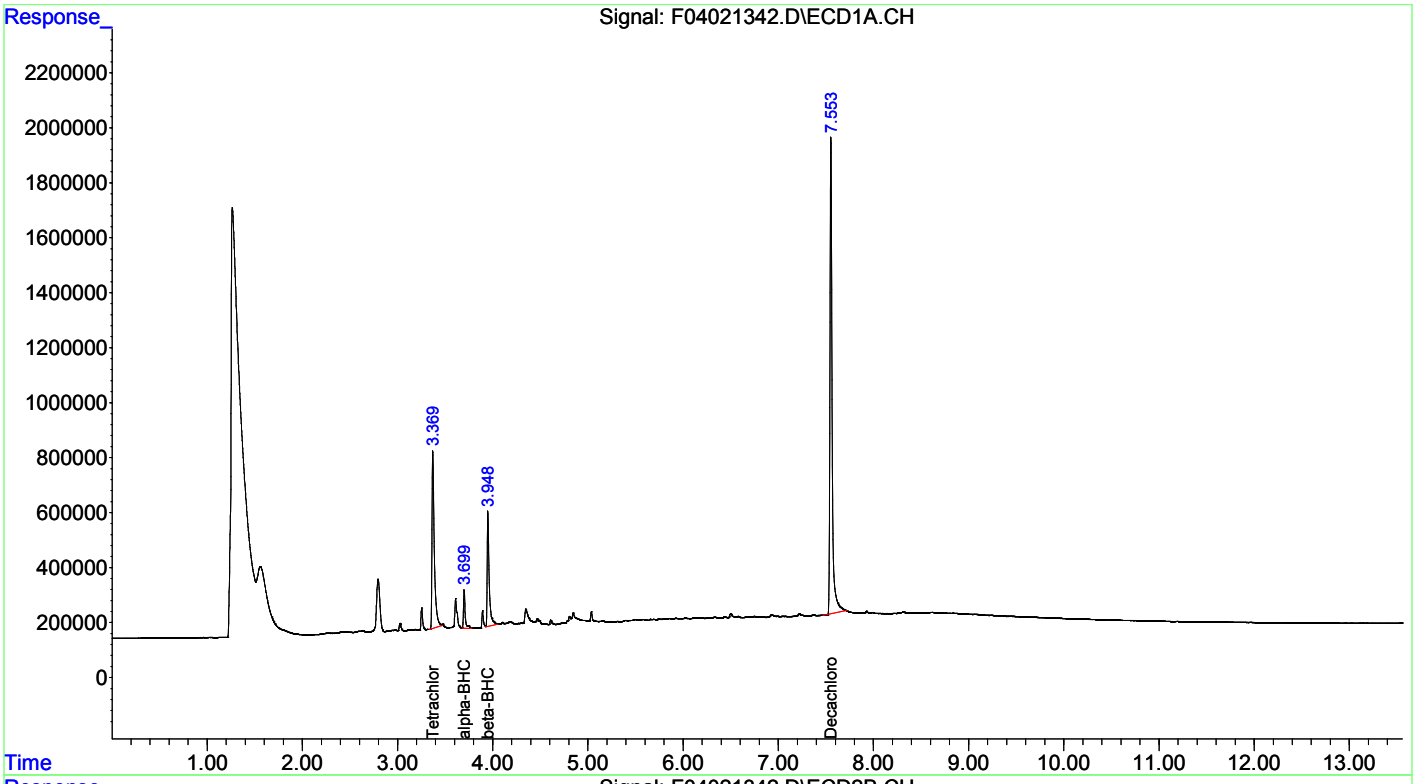
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

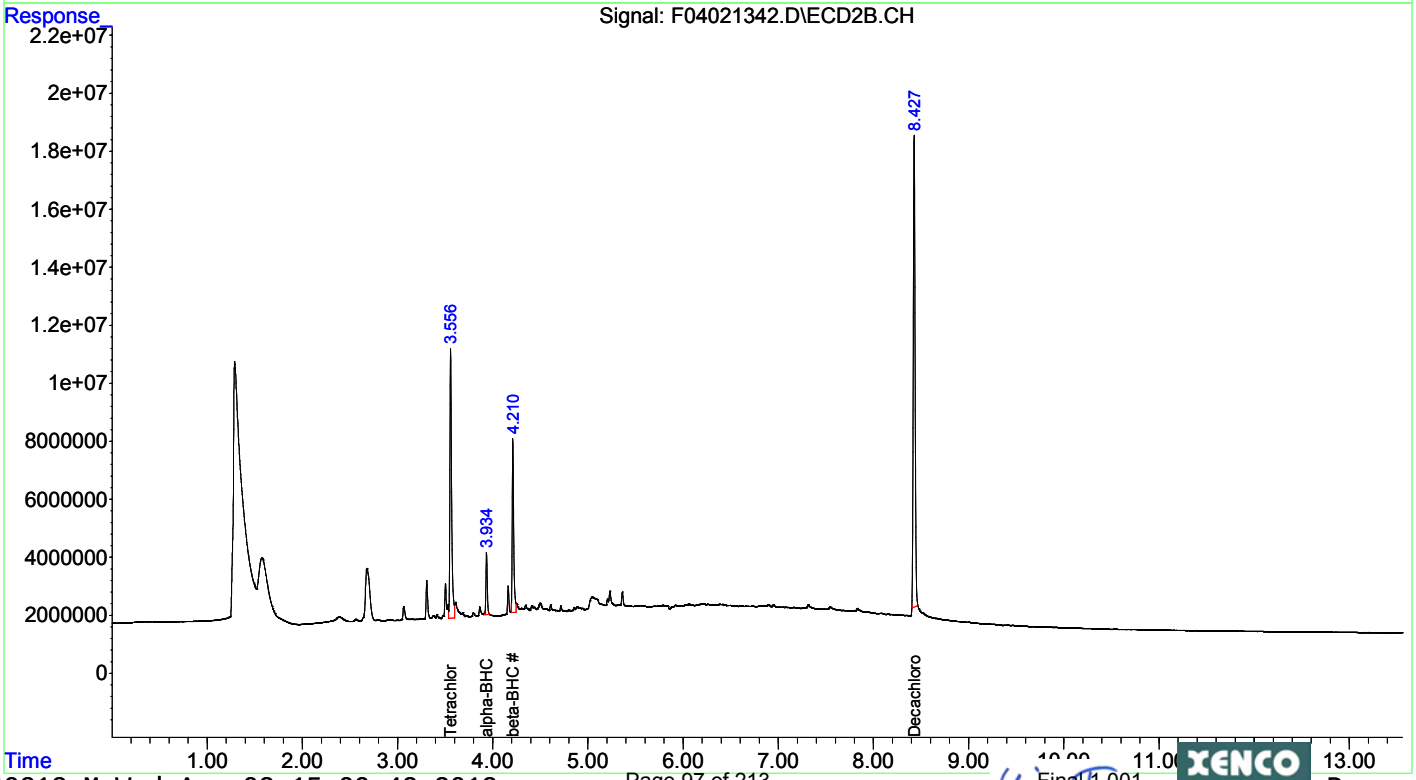
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021342.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 6:08
Operator : NT
Sample : 460271-013
Misc :
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:43:35 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021343.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 6:26
Operator : NT
Sample : 460271-014
Misc :
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:44:13 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S Tetrachlo...	3.369	3.557	18330410	202.7E6	41.580	49.623
Spiked Amount	50.000	Range 30 - 50		Recovery =	83.16%#	99.25%#
22) S Decachlor...	7.554	8.428	26420502	204.0E6	56.192	55.665m
Spiked Amount	50.000			Recovery =	112.38%	111.33%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

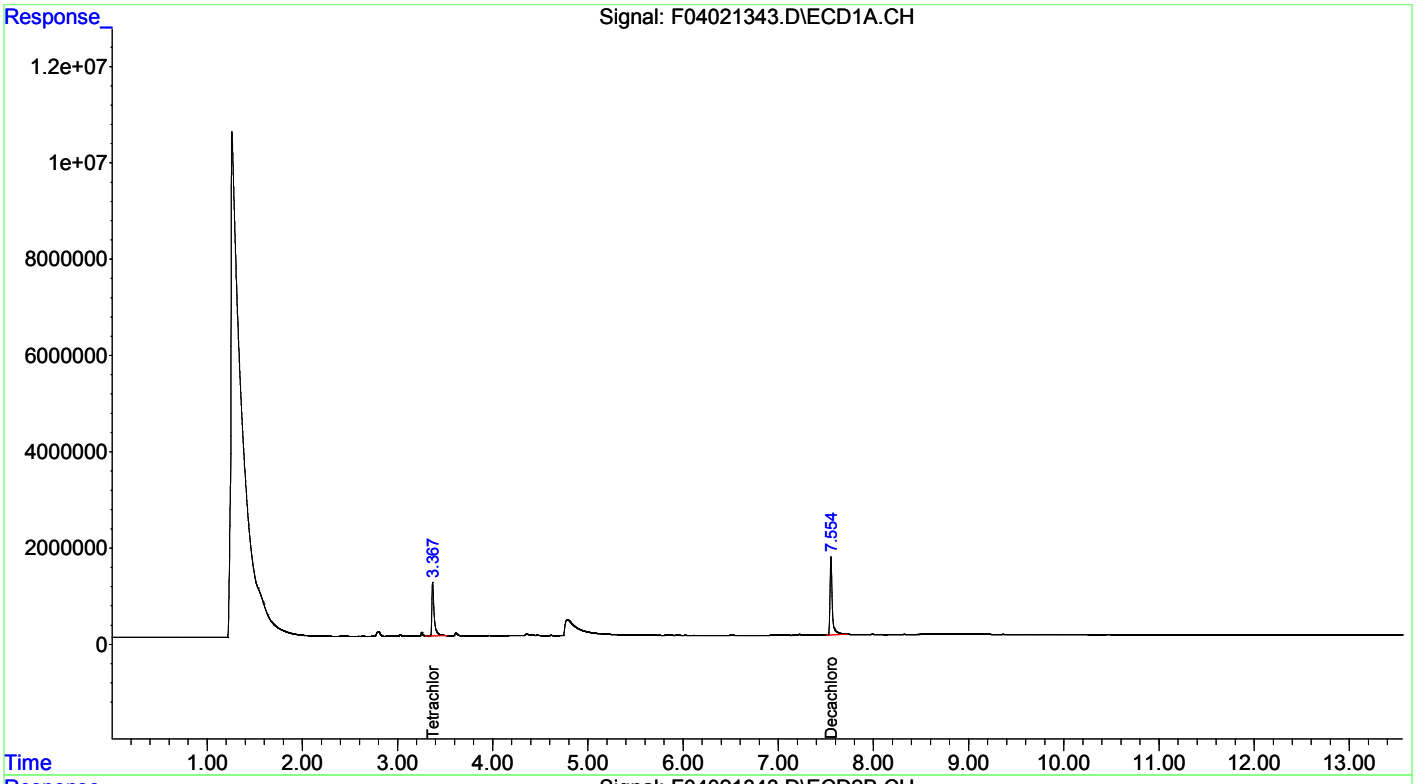
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

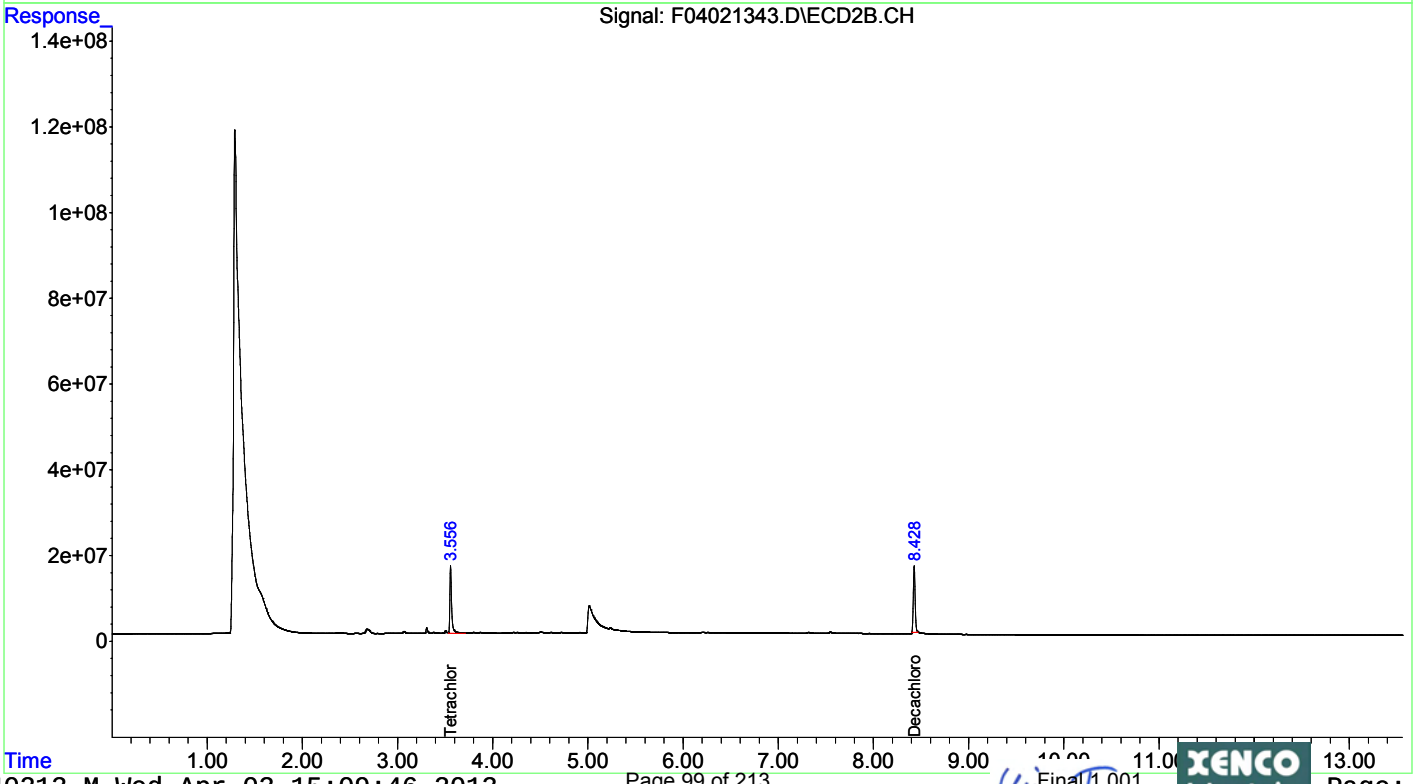
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021343.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 6:26
Operator : NT
Sample : 460271-014
Misc :
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:44:13 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021344.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 6:43
Operator : NT
Sample : 460271-015
Misc :
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:45:00 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.368	3.556	19698153	210.8E6	44.683	51.588
	Spiked Amount	50.000	Range	30 - 50	Recovery	= 89.37%#	103.18%#
22) S	Decachlor...	7.553	8.427	25097324	205.7E6	53.378m	56.122m
	Spiked Amount	50.000			Recovery	= 106.76%	112.24%
	Target Compounds						
2) T	alpha-BHC	3.698	3.934	56275369	607.1E6	77.192	89.874m
3) T	beta-BHC	3.938	4.213	200.2E6	2454.7E6	846.409	1038.068
4) T	gamma-BHC...	3.892	4.161	21209886	251.3E6	33.729	37.965
5) T	delta-BHC	4.059	4.406	35682864	422.5E6	68.261	67.068m
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

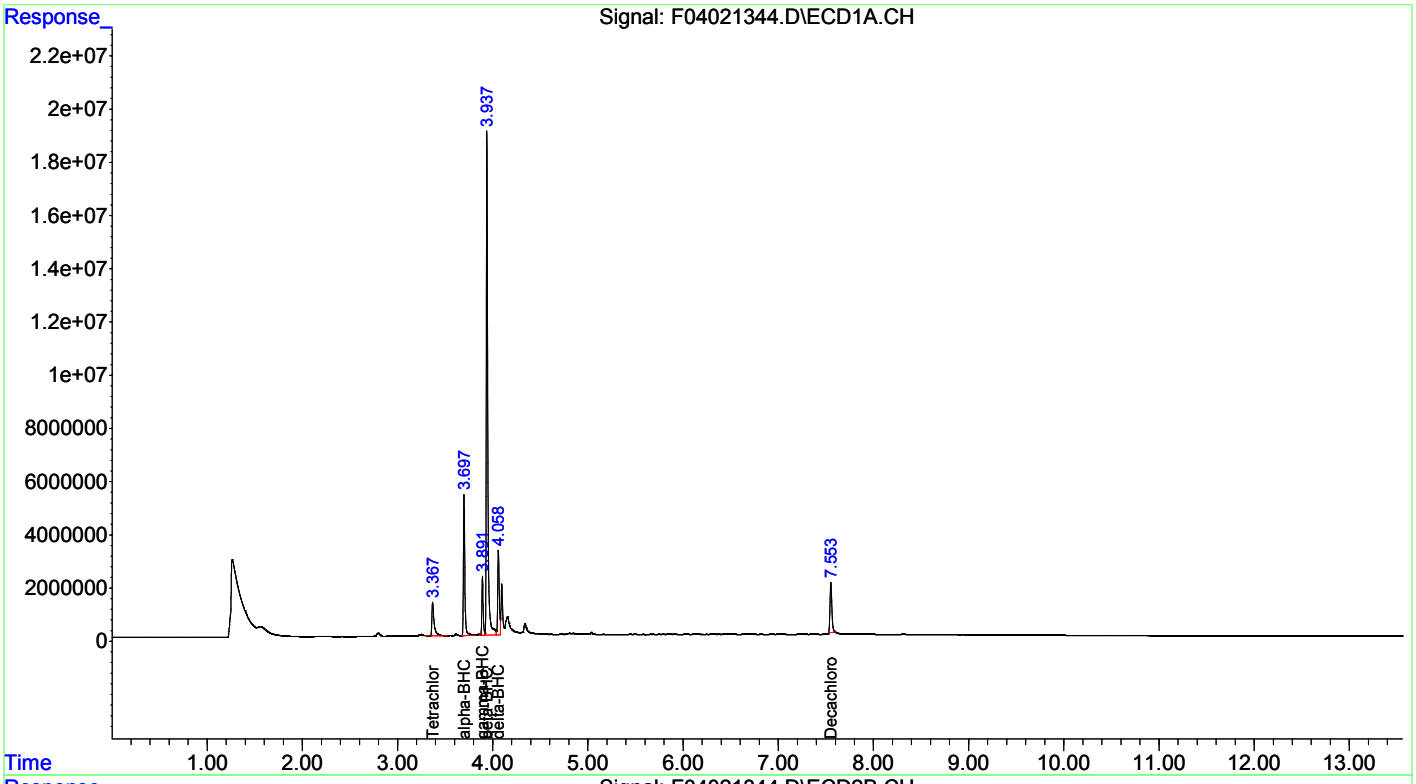
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

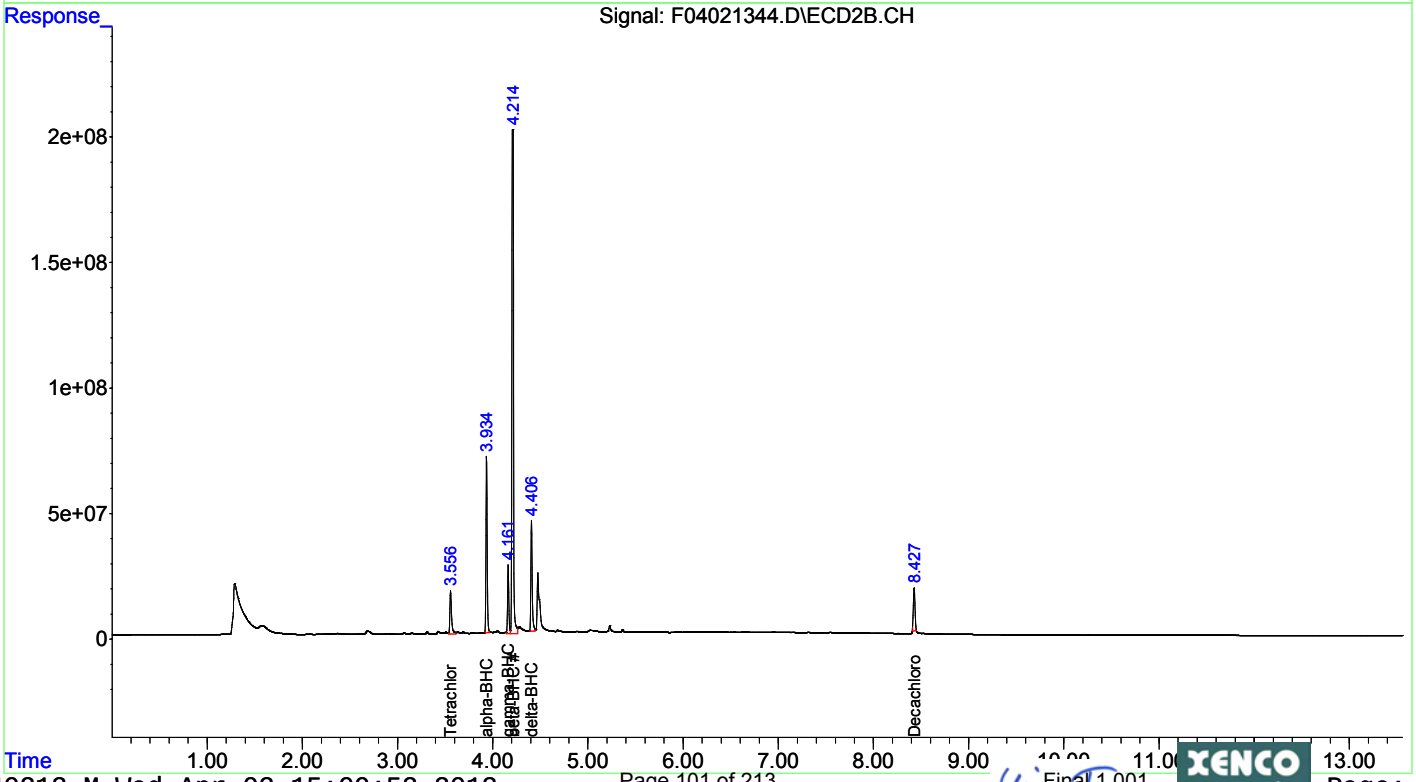
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021344.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 6:43
Operator : NT
Sample : 460271-015
Misc :
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:45:00 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021365.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 12:58
Operator : NT
Sample : 460271-015DL
Misc : DF=20
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 15:05:59 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
	Target Compounds						
2) T	alpha-BHC	3.698	3.932	2278408	22582644	3.125	3.343
3) T	beta-BHC	3.945	4.208	7419739	79924632	31.363	33.799
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

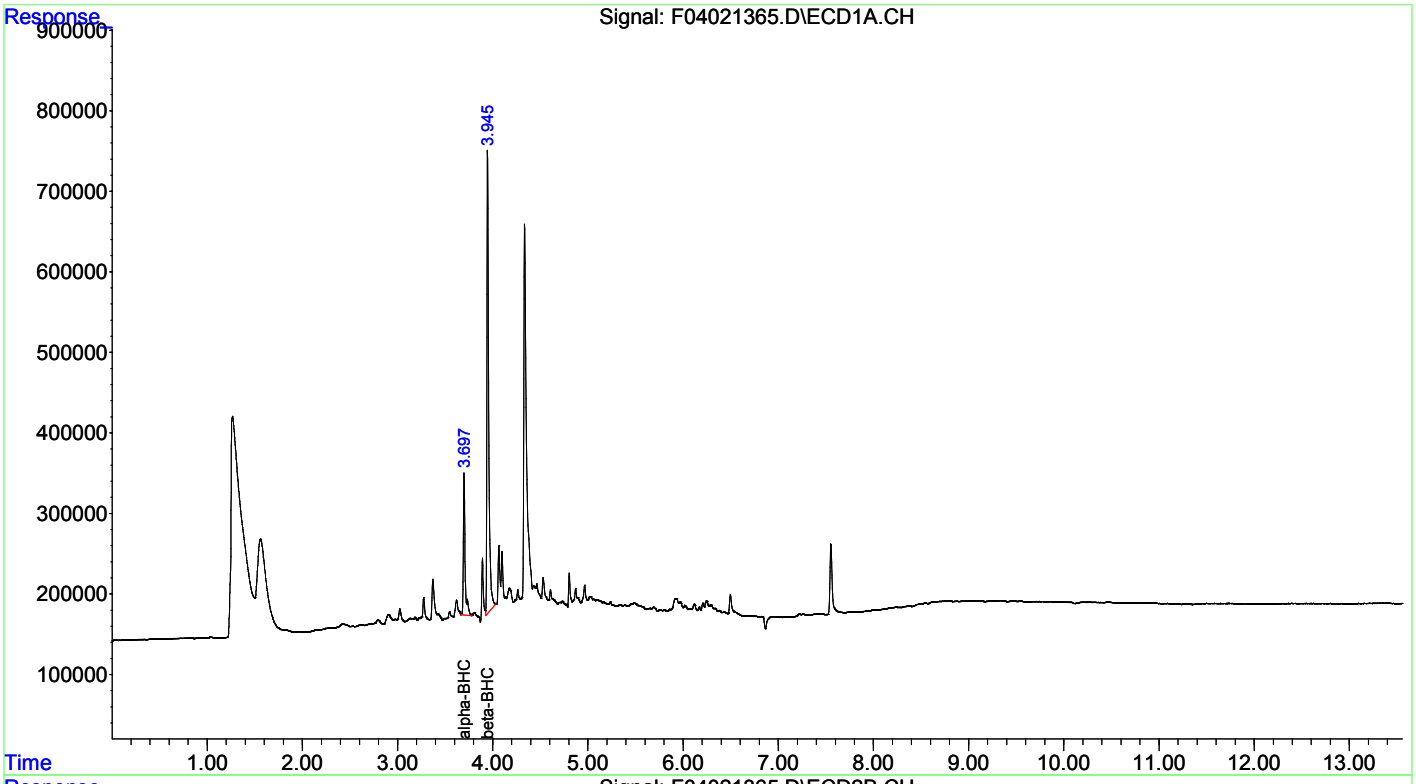
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

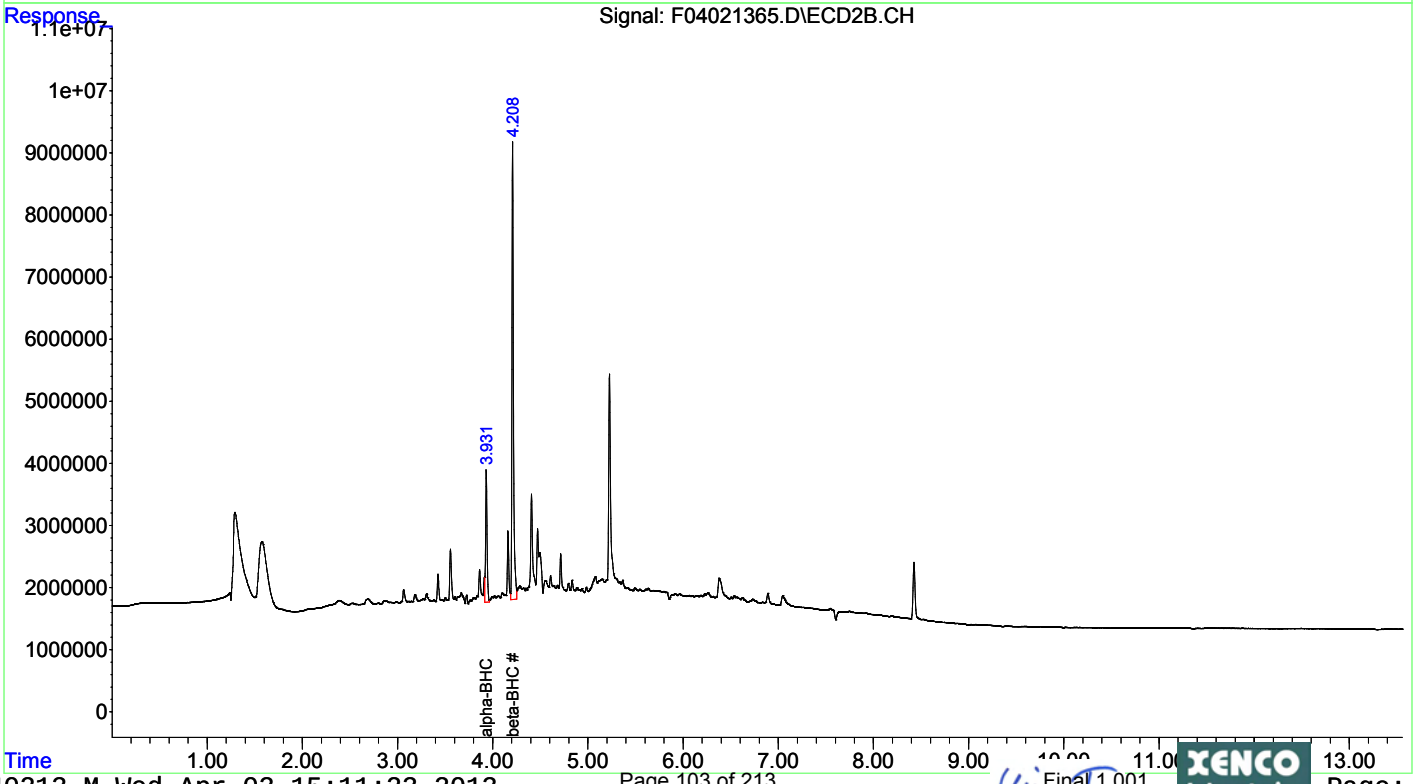
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021365.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 12:58
Operator : NT
Sample : 460271-015DL
Misc : DF=20
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 15:05:59 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021345.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 7:01
Operator : NT
Sample : 460271-016
Misc :
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:46:02 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.369	3.556	19329613	205.7E6	43.847	50.357
	Spiked Amount	50.000	Range 30 - 50	Recovery =		87.69%#	100.71%#
22) S	Decachlor...	7.553	8.428	24522627	217.7E6	52.156m	59.402m
	Spiked Amount	50.000		Recovery =		104.31%	118.80%
	Target Compounds						
2) T	alpha-BHC	3.700	3.935	4957195	53360848	6.800	7.900m
3) T	beta-BHC	3.939	4.209	155.5E6	1868.9E6	657.100	790.349m
4) T	gamma-BHC...	3.893	4.161	1477969	22240932	2.350	3.360m#
5) T	delta-BHC	4.061	4.407	19925137	247.2E6	38.116	39.242m
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

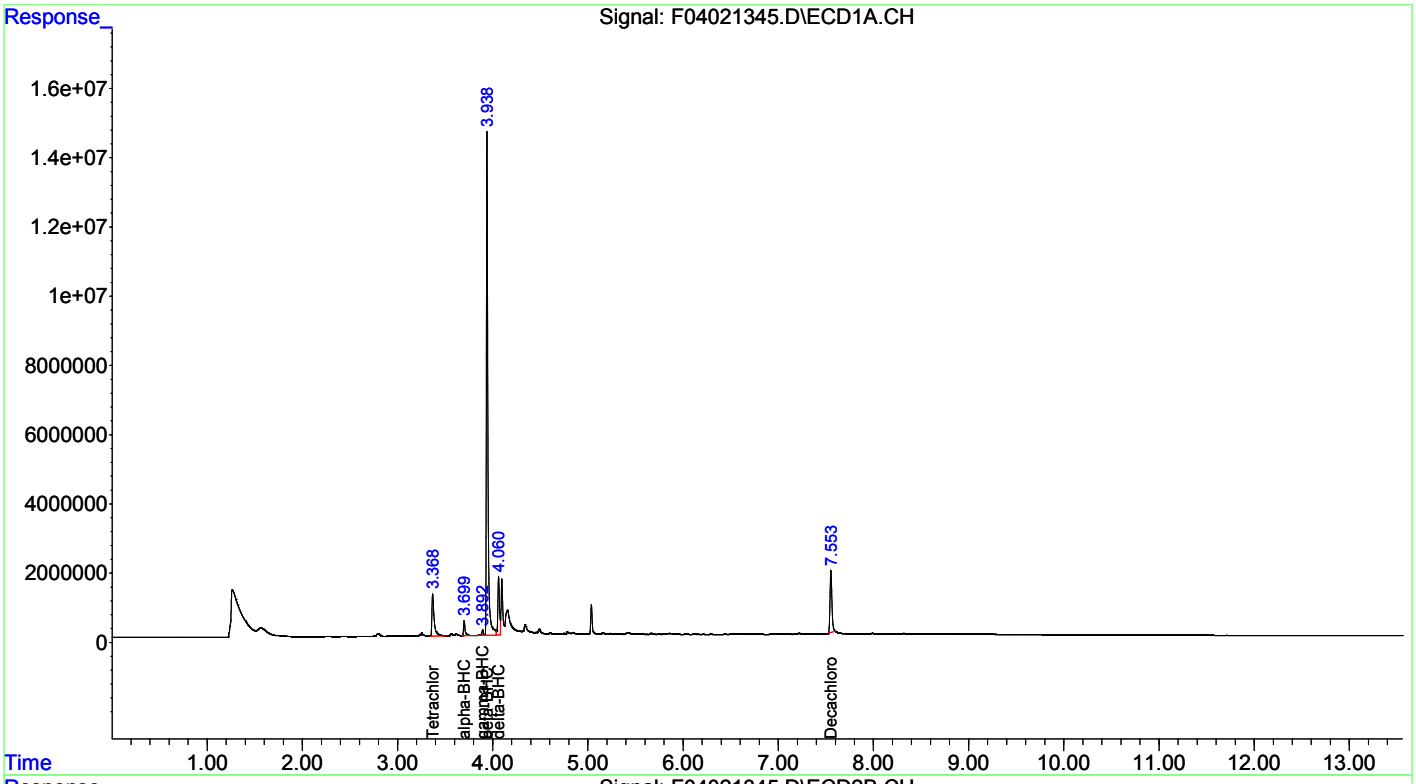
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

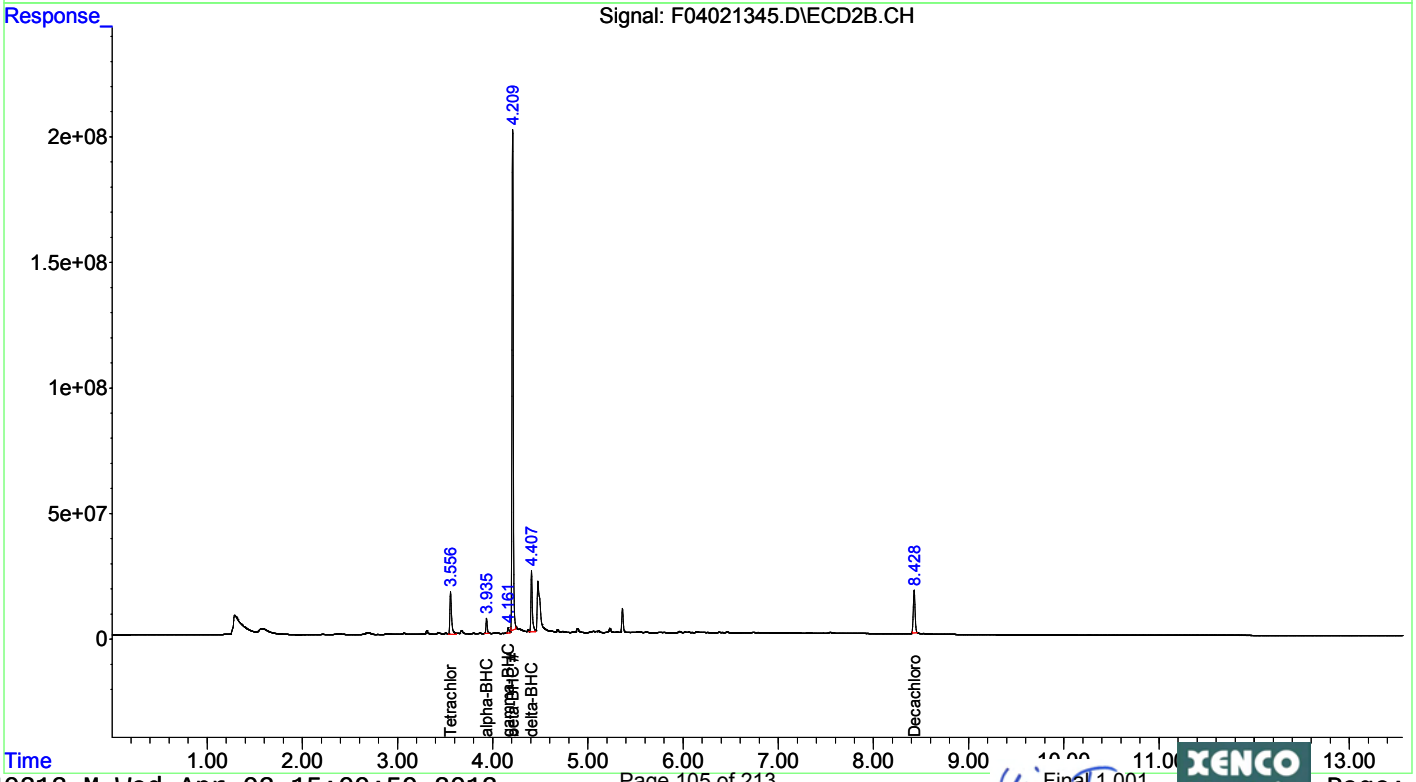
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021345.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 7:01
Operator : NT
Sample : 460271-016
Misc :
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:46:02 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021366.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 13:15
Operator : NT
Sample : 460271-016DL
Misc : DF=20
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 15:06:20 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
	Target Compounds						
3) T	beta-BHC	3.946	4.209	6073803	64754906	25.674	27.384
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

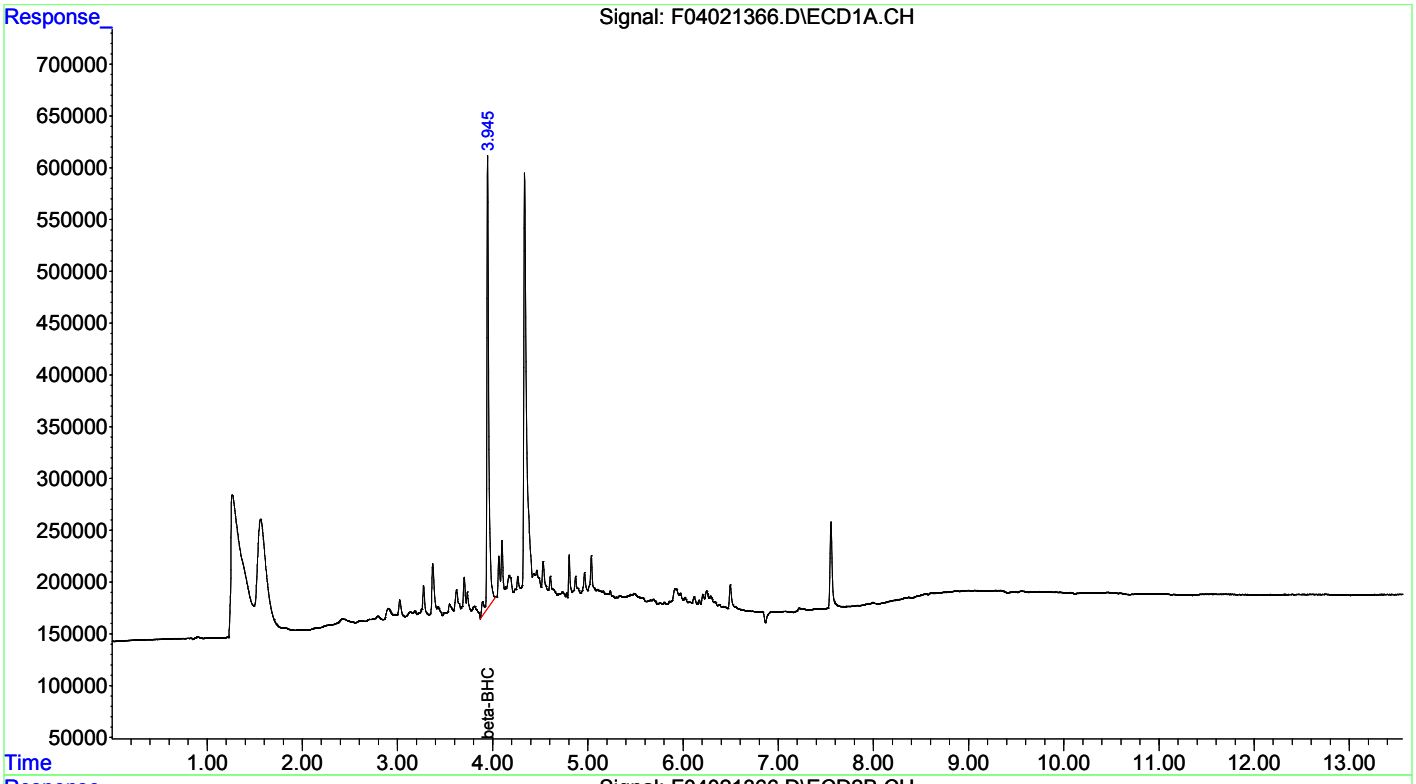
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

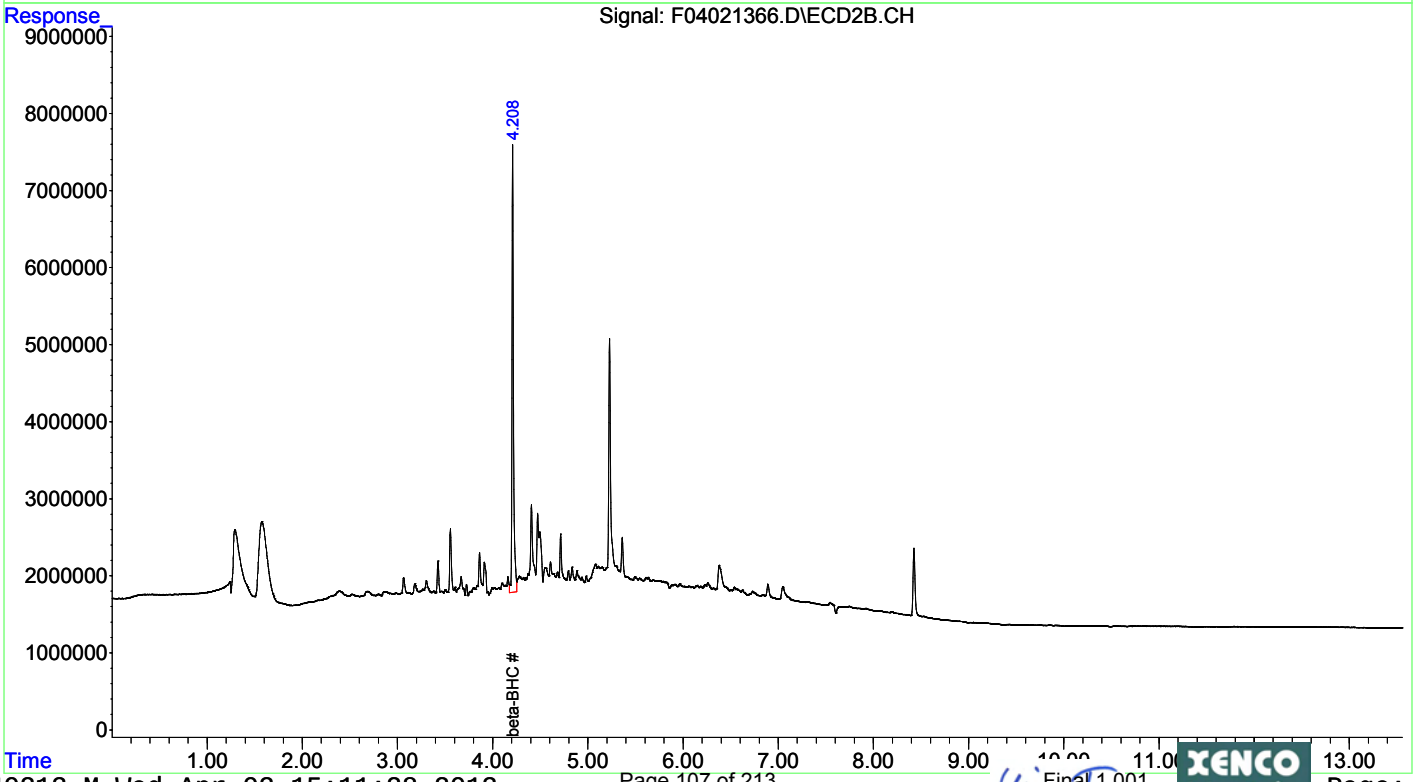
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021366.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 13:15
Operator : NT
Sample : 460271-016DL
Misc : DF=20
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 15:06:20 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021346.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 7:18
Operator : NT
Sample : 460271-017
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:46:39 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.369	3.556	21028050	212.7E6	47.700	52.068m
	Spiked Amount	50.000	Range	30 - 50	Recovery	= 95.40%#	104.14%#
22) S	Decachlor...	7.554	8.428	23665037	194.6E6	50.332	53.095
	Spiked Amount	50.000			Recovery	= 100.66%	106.19%
	Target Compounds						
3) T	beta-BHC	3.948	4.210	9674096	104.2E6	40.893	44.045m
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

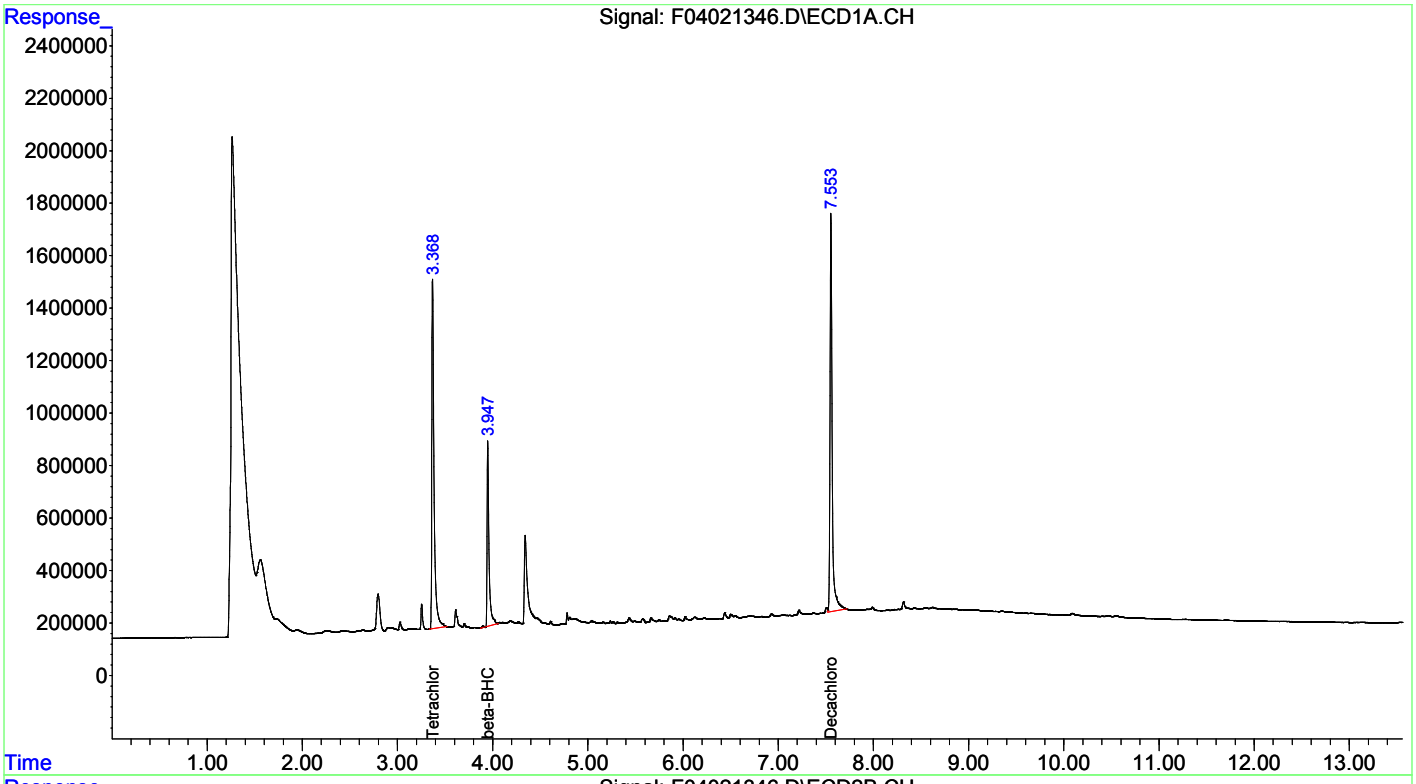
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

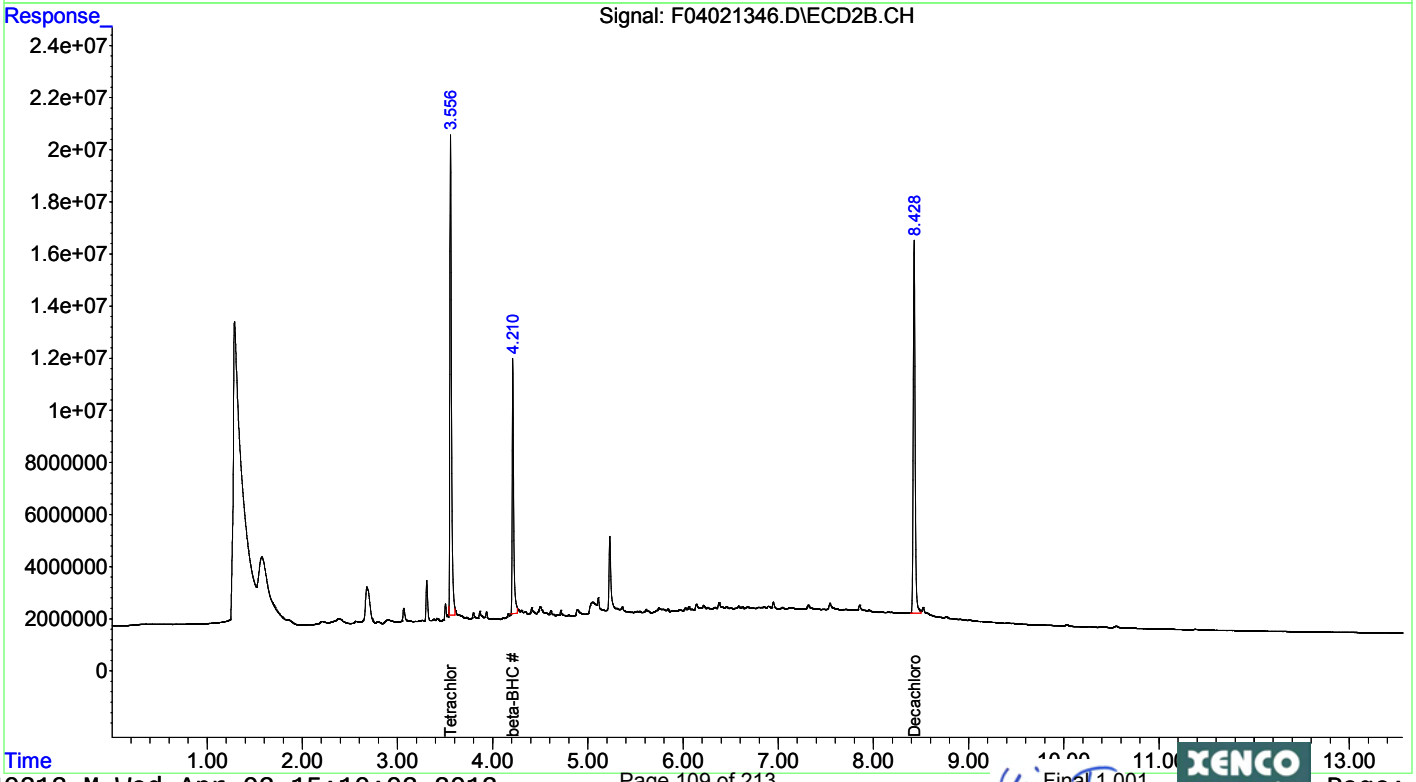
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021346.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 7:18
Operator : NT
Sample : 460271-017
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:46:39 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021347.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 7:36
Operator : NT
Sample : 460271-018
Misc :
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:47:55 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.368	3.555	21595072	213.7E6	48.986	52.313m
	Spiked Amount	50.000	Range 30 - 50		Recovery =	97.97%#	104.63%#
22) S	Decachlor...	7.552	8.427	23913460	200.3E6	50.860	54.649
	Spiked Amount	50.000			Recovery =	101.72%	109.30%
	Target Compounds						
2) T	alpha-BHC	3.698	3.935	105.2E6	1210.5E6	144.340	179.200m
3) T	beta-BHC	3.937	4.221	582.3E6	3999.1E6	2461.572	1691.174 #
4) T	gamma-BHC...	3.891	4.161	46322693	513.6E6	73.664	77.598m
5) T	delta-BHC	4.056	4.406	64473493	788.7E6	123.336m	125.204m
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

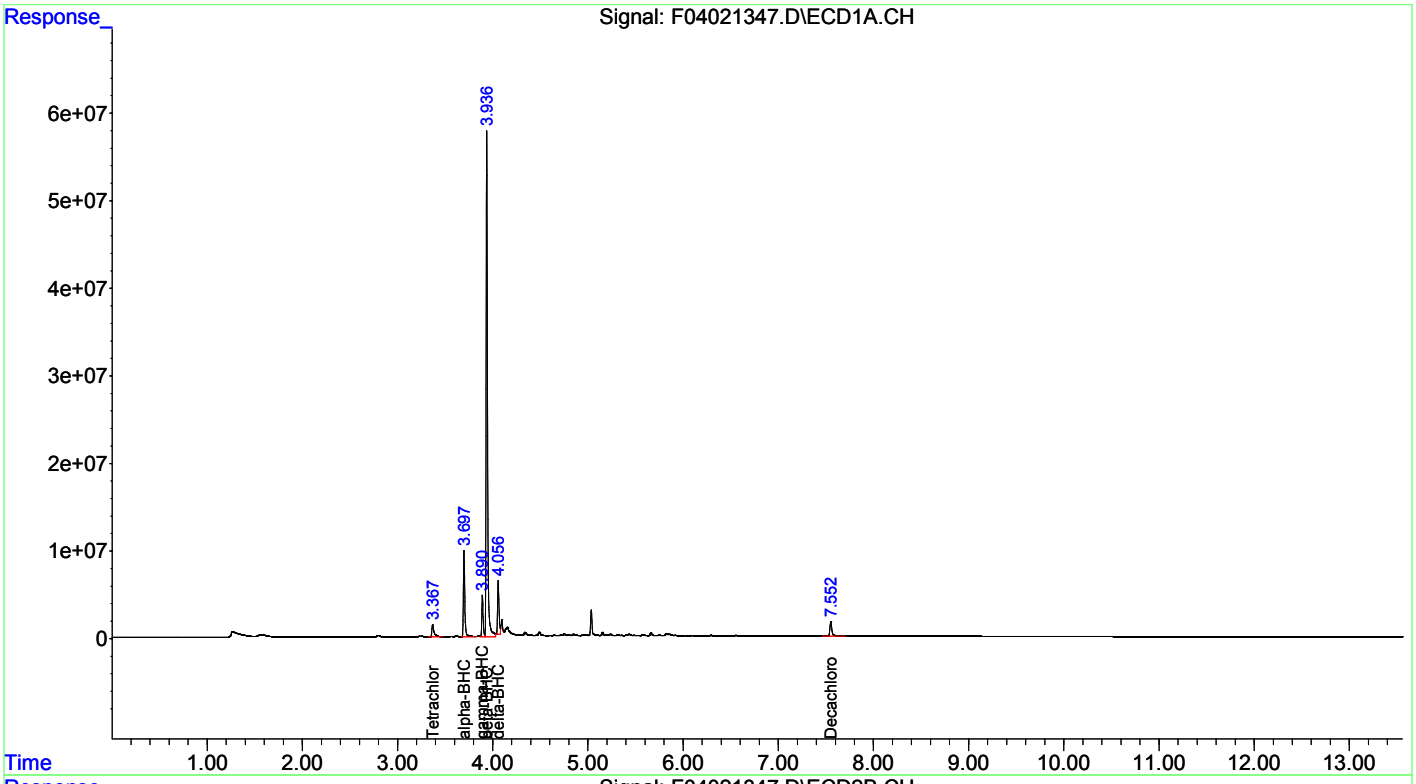
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

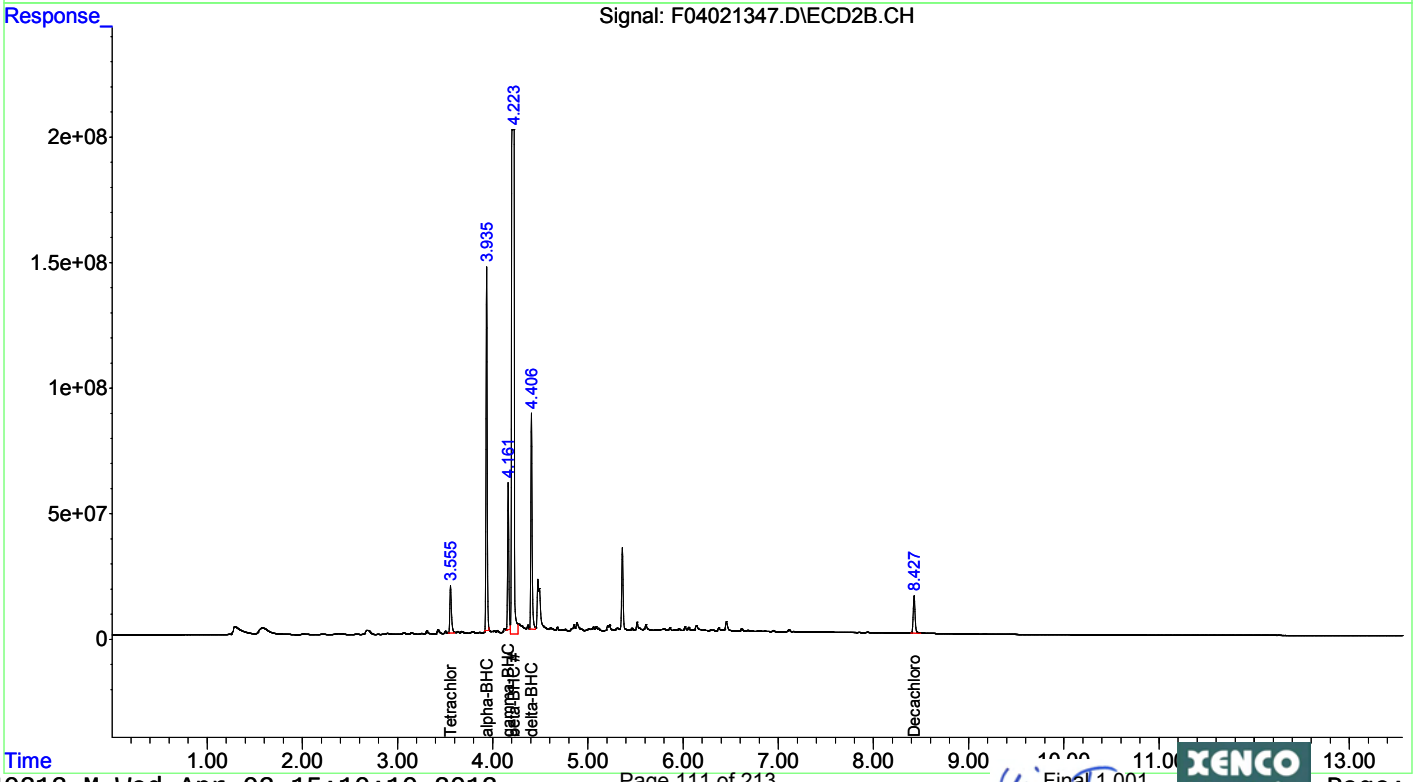
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021347.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 7:36
Operator : NT
Sample : 460271-018
Misc :
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:47:55 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021367.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 13:33
Operator : NT
Sample : 460271-018DL
Misc : DF=10
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 15:06:52 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.370	3.555	1893404	22018311	4.295	5.389 #
	Spiked Amount	50.000	Range	30 - 50	Recovery =	8.59%#	10.78%#
22) S	Decachlor...	7.553	8.425	2239669	20766476	4.763	5.666
	Spiked Amount	50.000			Recovery =	9.53%	11.33%
	Target Compounds						
2) T	alpha-BHC	3.697	3.931	7949518	72340946	10.904	10.710m
3) T	beta-BHC	3.940	4.206	47883003	502.0E6	202.402	212.269
4) T	gamma-BHC...	3.891	4.159	3235500	42670789	5.145	6.447 #
5) T	delta-BHC	4.061	4.406	3873728	51556652	7.410	8.184m
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

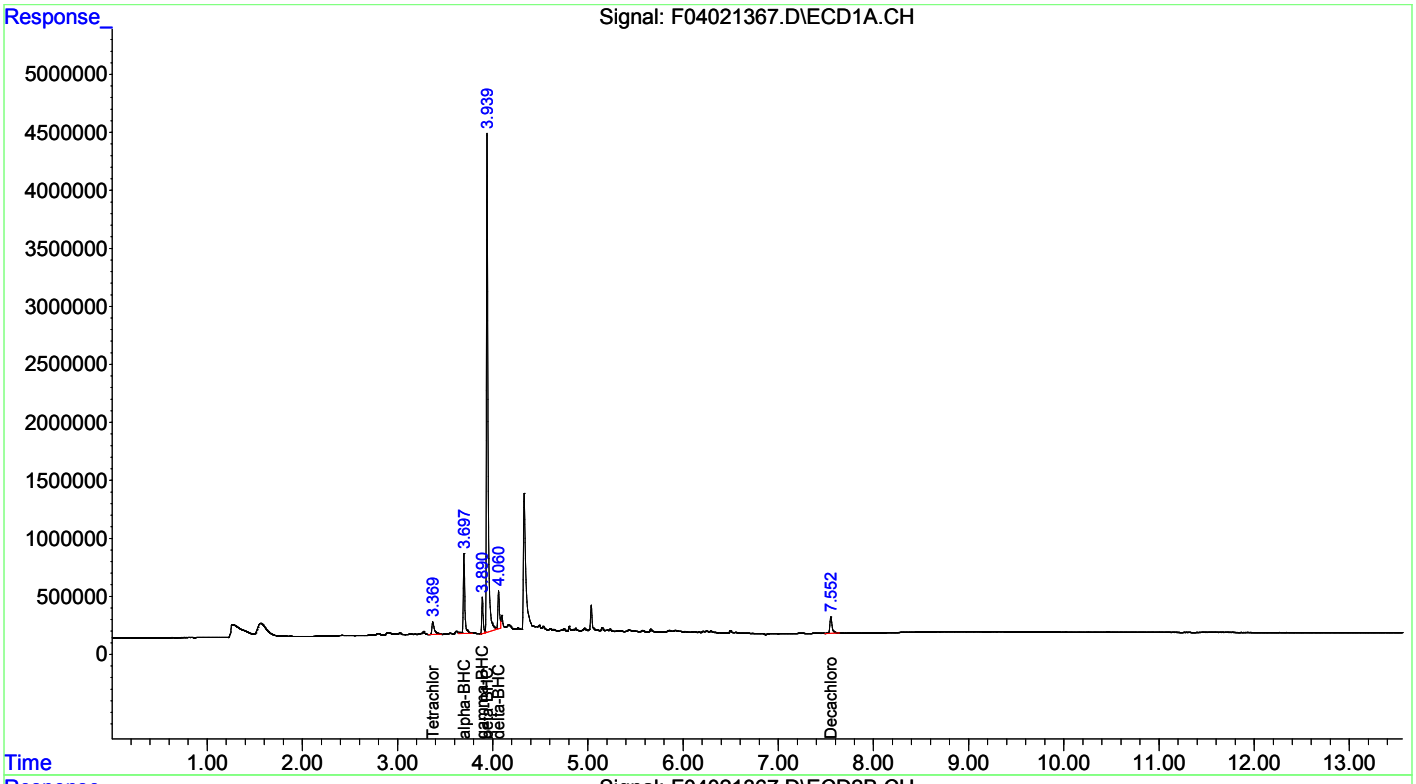
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

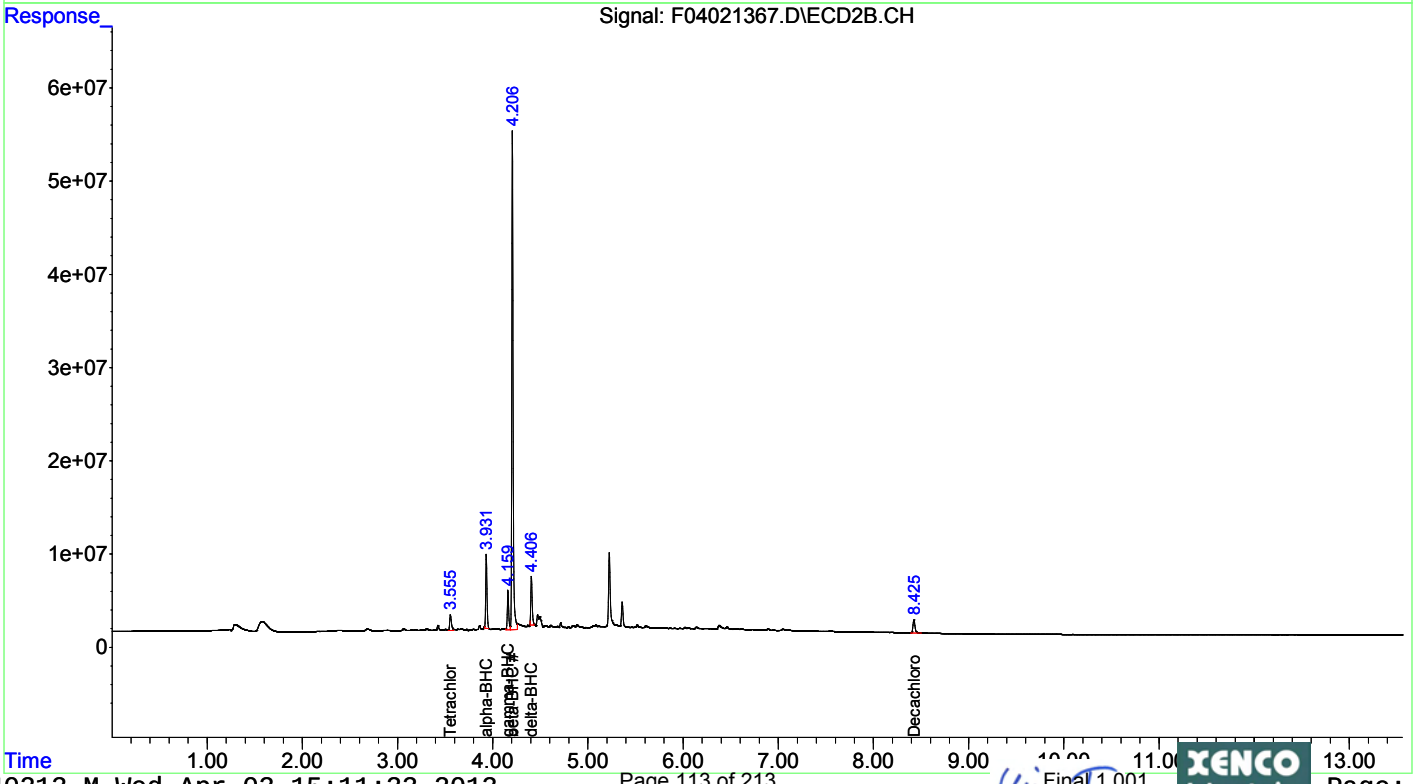
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021367.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 13:33
Operator : NT
Sample : 460271-018DL
Misc : DF=10
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 15:06:52 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021368.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 13:50
Operator : NT
Sample : 460271-018DL
Misc : DF=100
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 15:07:17 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
	Target Compounds						
3) T	beta-BHC	3.947	4.208	4347924	44394968	18.379	18.774m
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

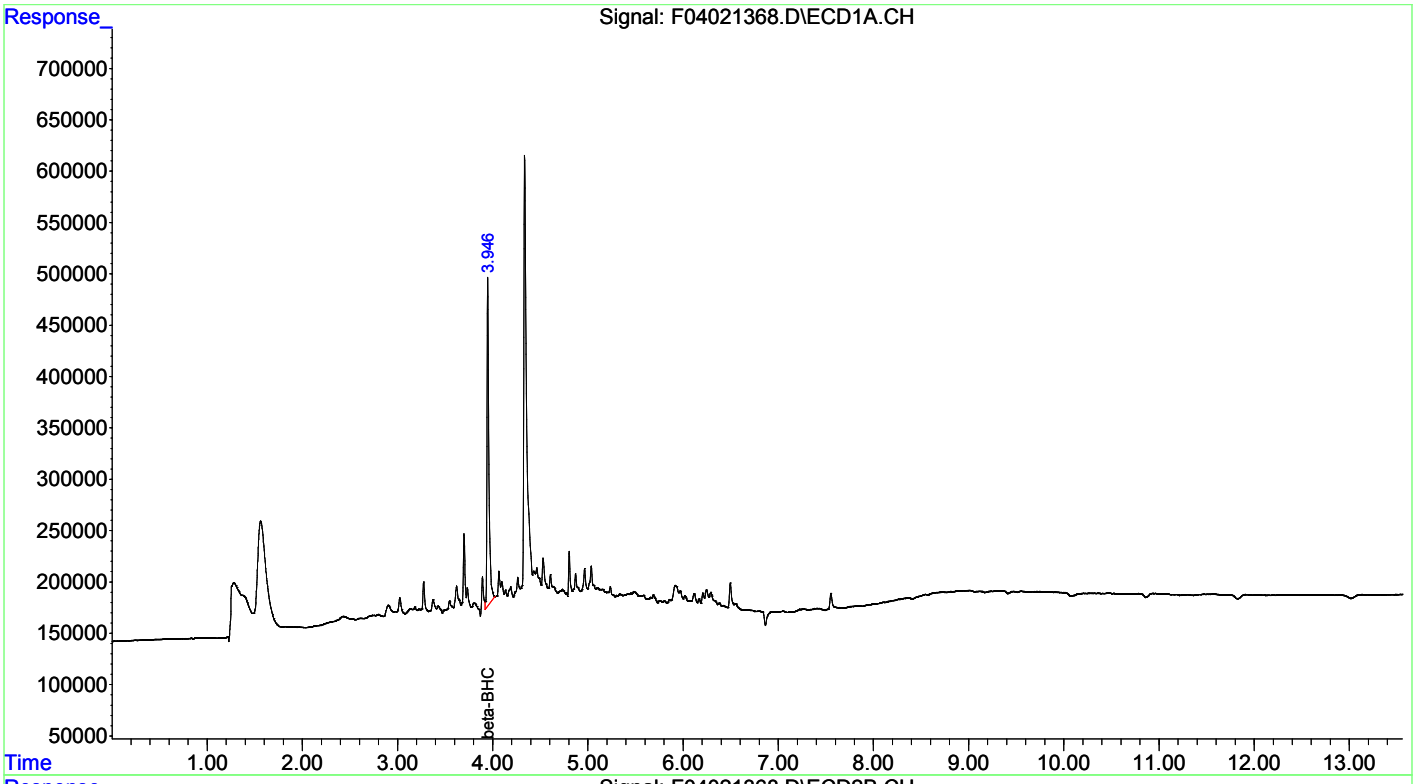
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

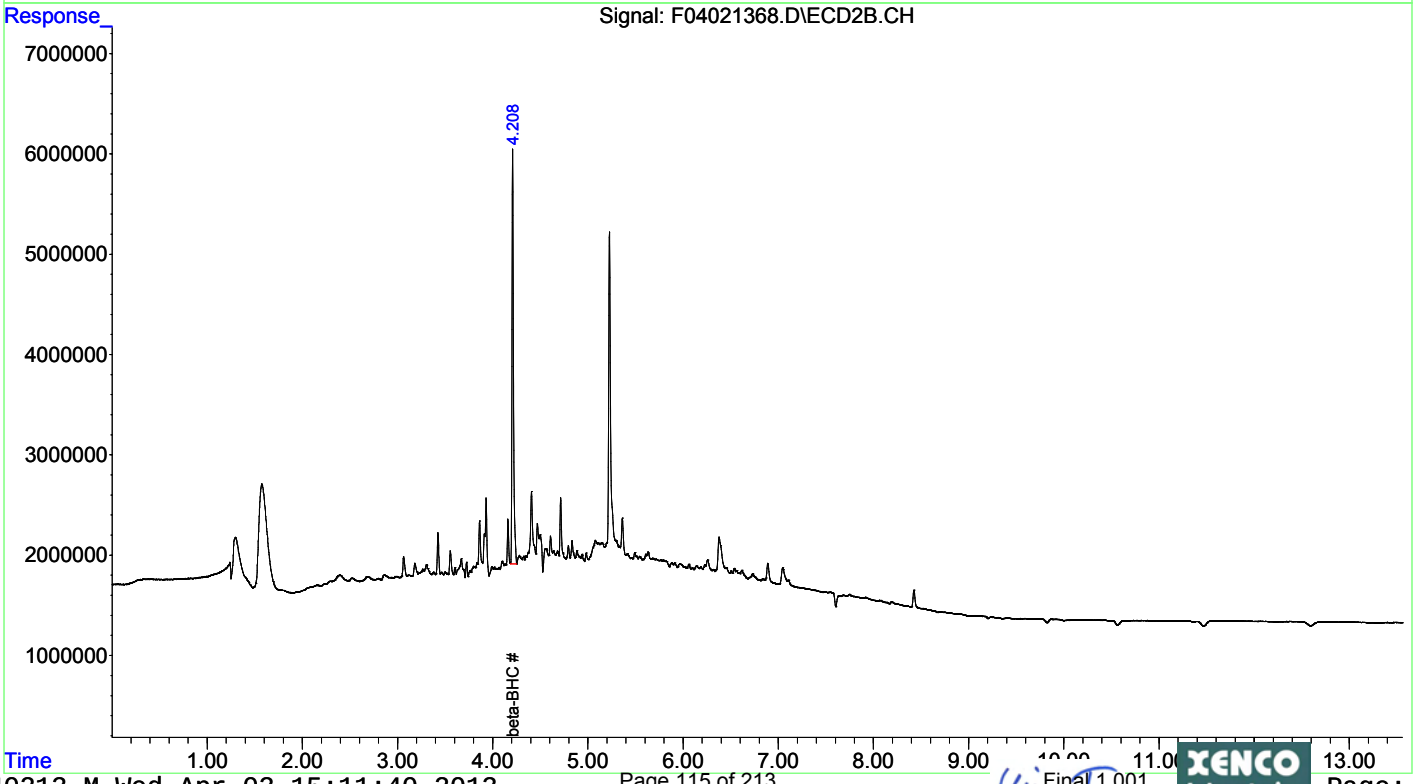
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021368.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 13:50
Operator : NT
Sample : 460271-018DL
Misc : DF=100
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 15:07:17 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021348.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 7:53
Operator : NT
Sample : 460271-019
Misc :
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:48:40 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S Tetrachlo...	3.369	3.557	17294150	190.0E6	39.230	46.492
Spiked Amount 50.000	Range 30 - 50		Recovery =		78.46%#	92.98%#
22) S Decachlor...	7.554	8.428	20572951	175.0E6	43.755	47.740
Spiked Amount 50.000			Recovery =		87.51%	95.48%
Target Compounds						
3) T beta-BHC	3.941	4.208	89624941	941.6E6	378.846	398.207m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

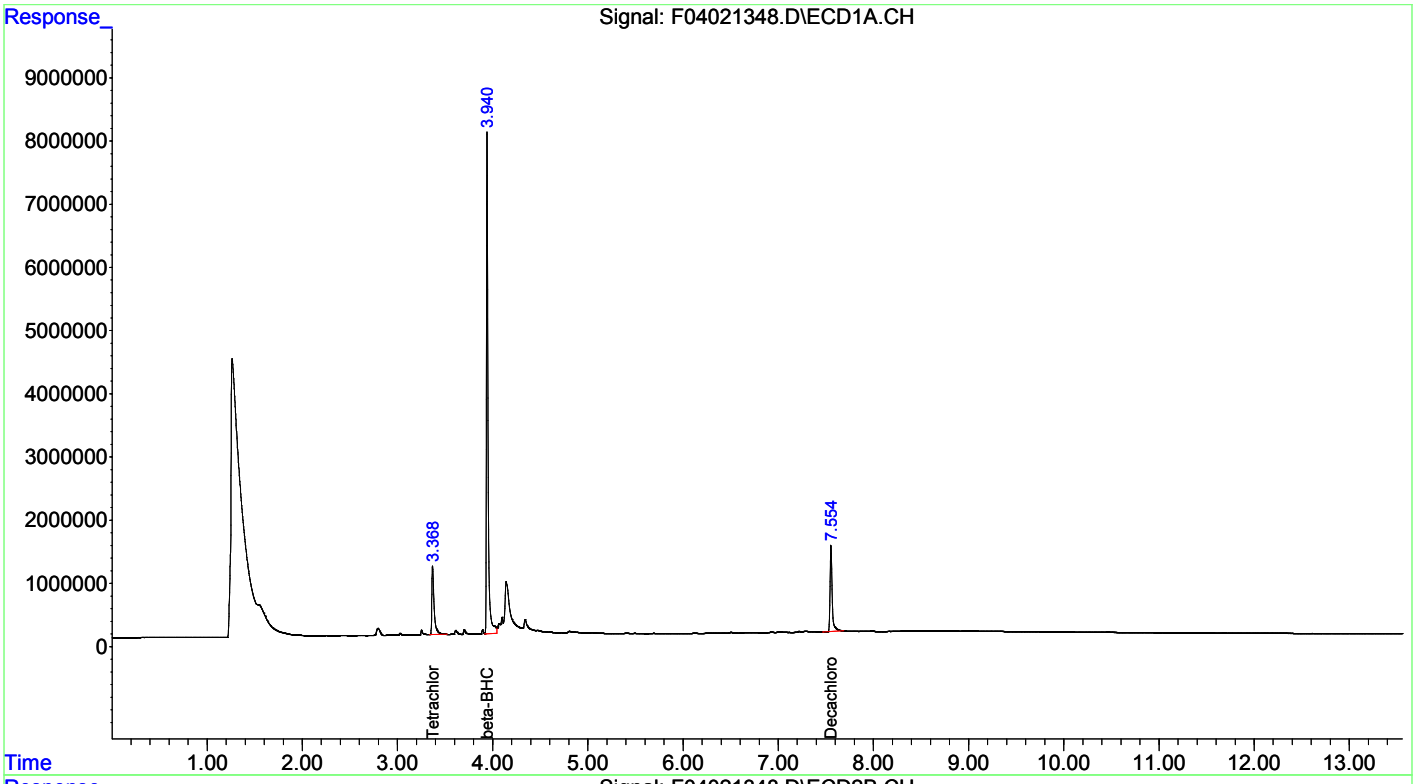
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

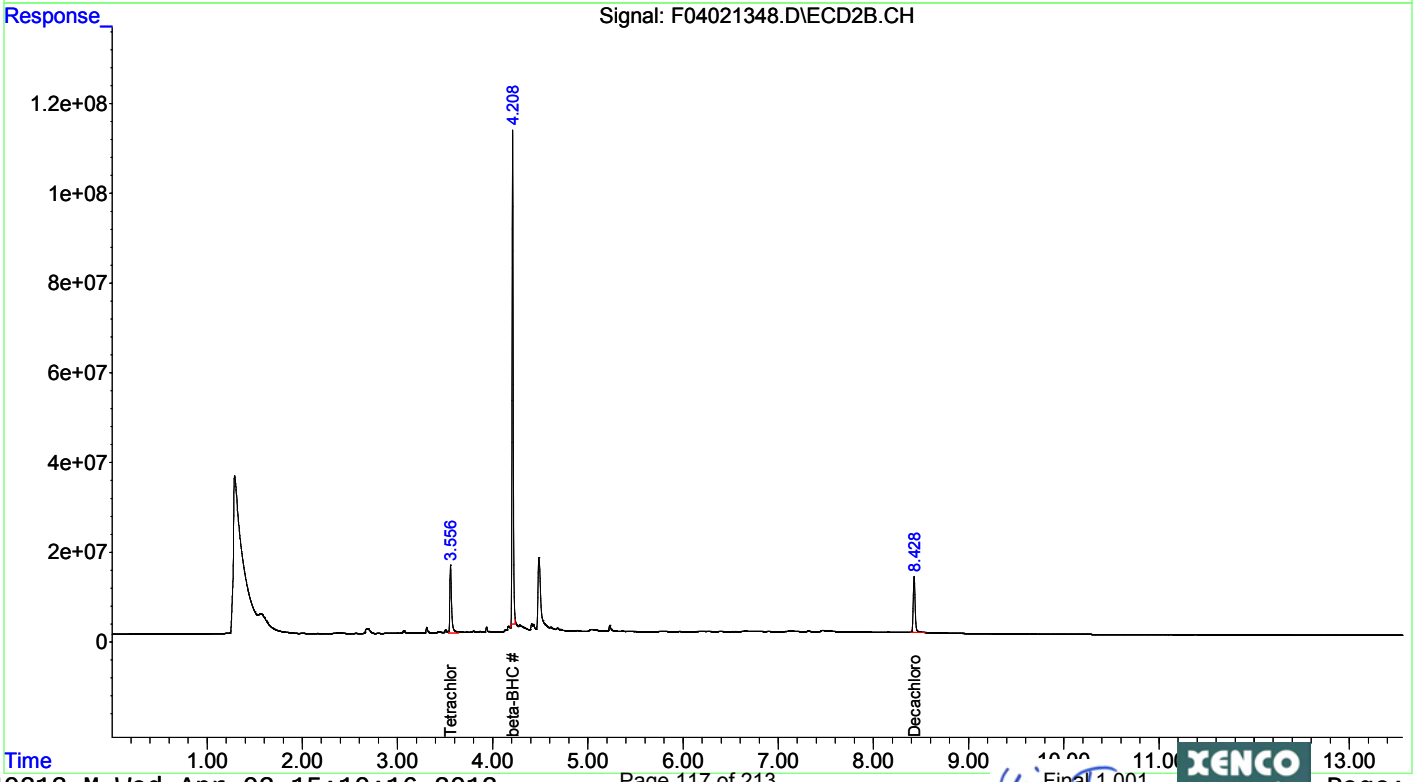
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021348.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 7:53
Operator : NT
Sample : 460271-019
Misc :
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:48:40 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021369.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 14:08
Operator : NT
Sample : 460271-019DL
Misc : DF=10
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 15:07:52 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.369	3.554	1490427	15374297	3.381m	3.763m
	Spiked Amount	50.000	Range 30 - 50		Recovery =	6.76%#	7.53%#
22) S	Decachlor...	7.553	8.426	2024928	18385941	4.307	5.017
	Spiked Amount	50.000			Recovery =	8.61%	10.03%
	Target Compounds						
3) T	beta-BHC	3.945	4.208	7409605	79565556	31.321	33.647
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

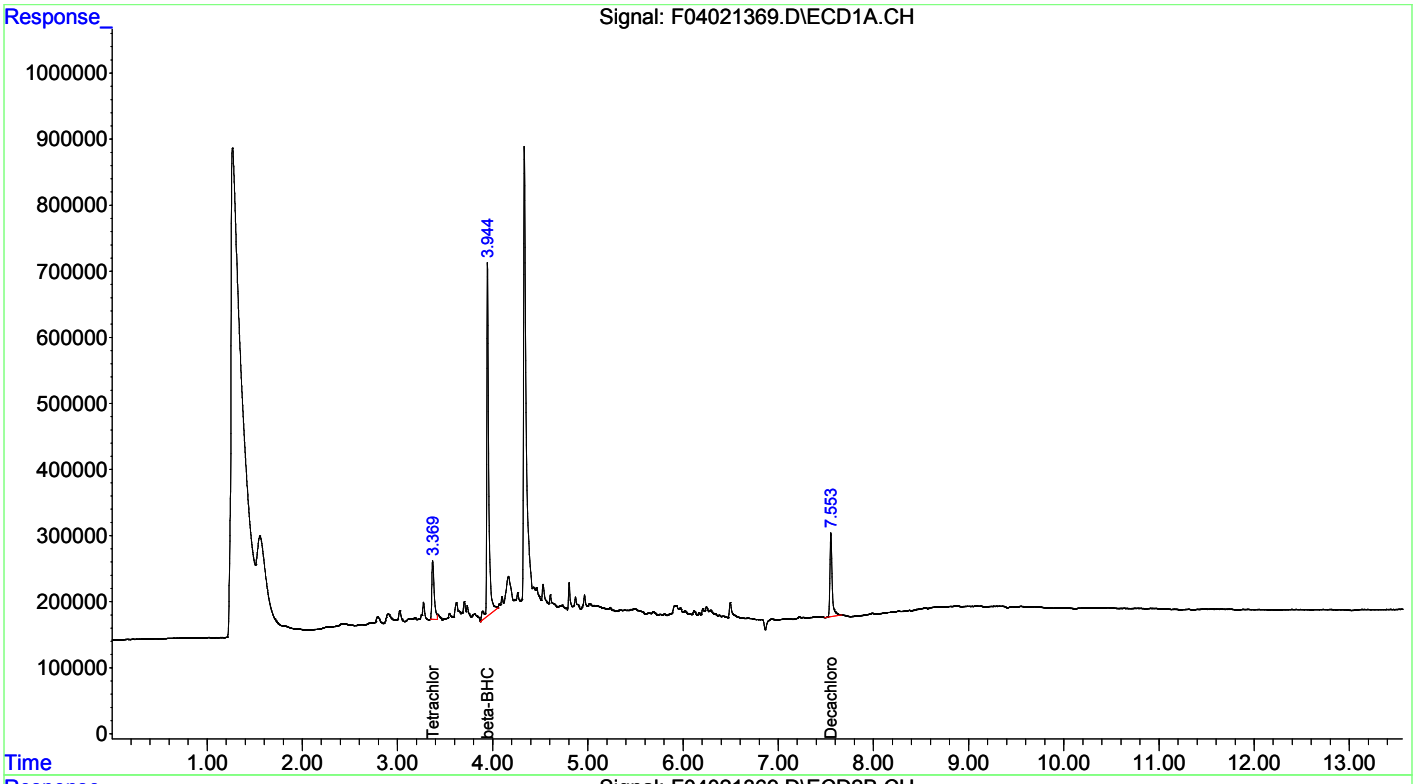
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

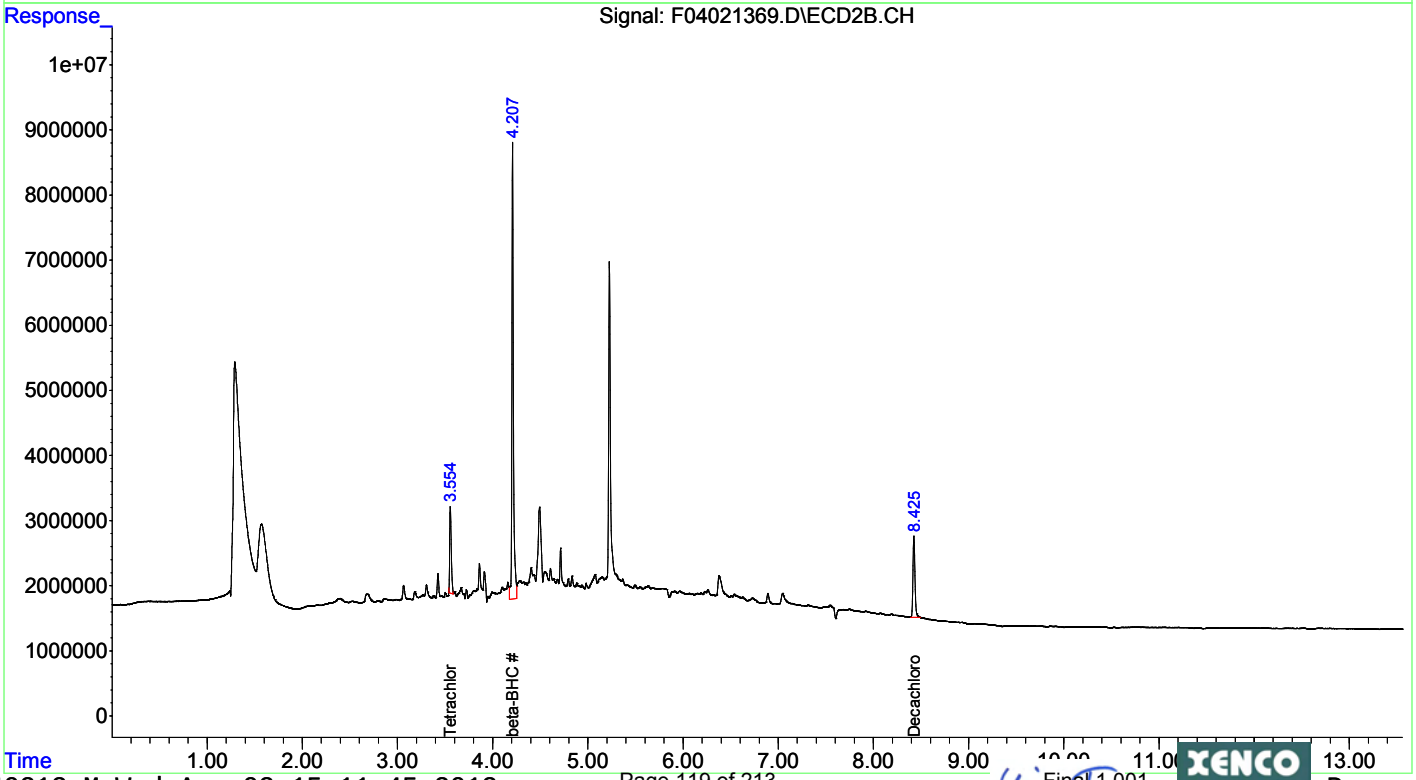
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021369.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 14:08
Operator : NT
Sample : 460271-019DL
Misc : DF=10
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 15:07:52 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021349.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 8:11
Operator : NT
Sample : 460271-020
Misc :
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:49:30 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S Tetrachlo...	3.368	3.556	21460874	215.7E6	48.681	52.803m
Spiked Amount 50.000	Range 30 - 50		Recovery =		97.36%#	105.61%#
22) S Decachlor...	7.554	8.428	24905736	216.1E6	52.971m	58.969m
Spiked Amount 50.000			Recovery =		105.94%	117.94%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

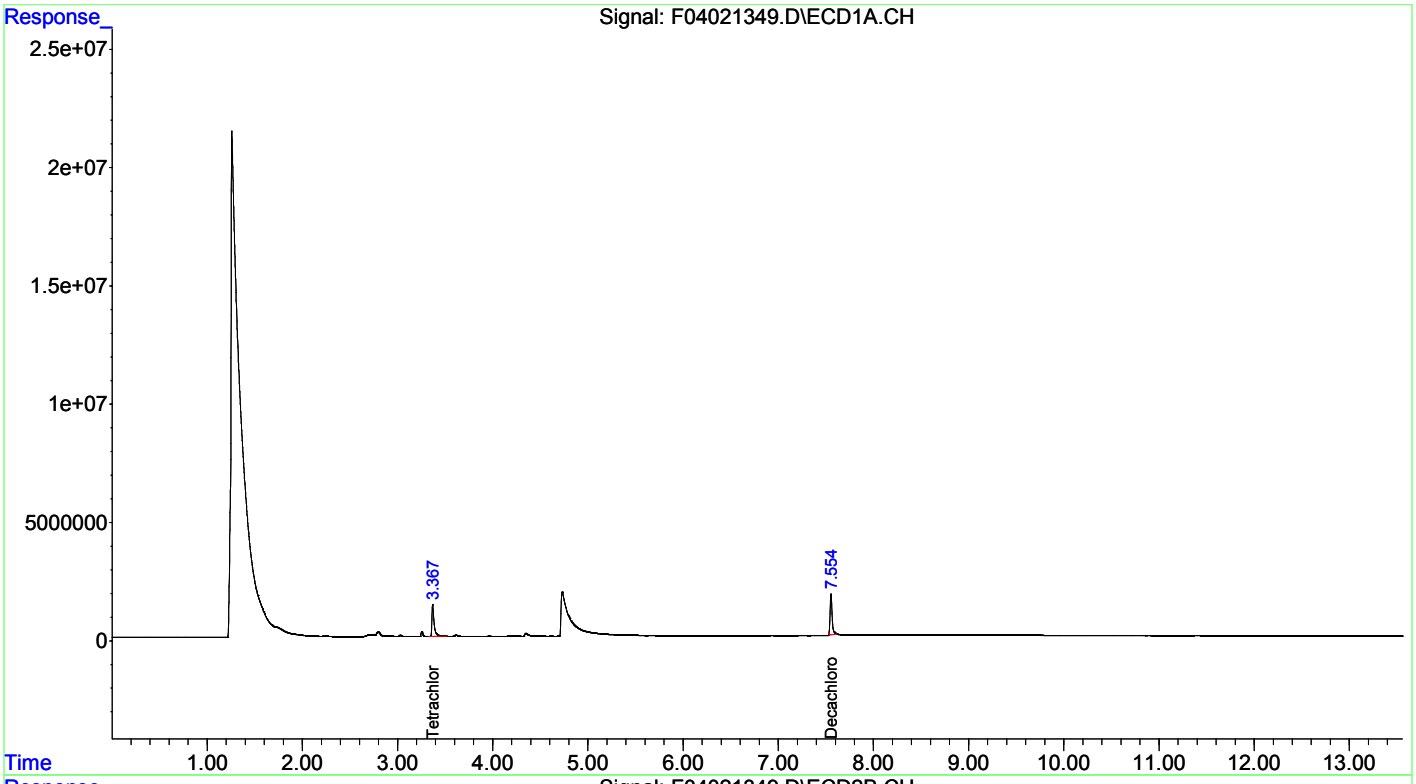
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

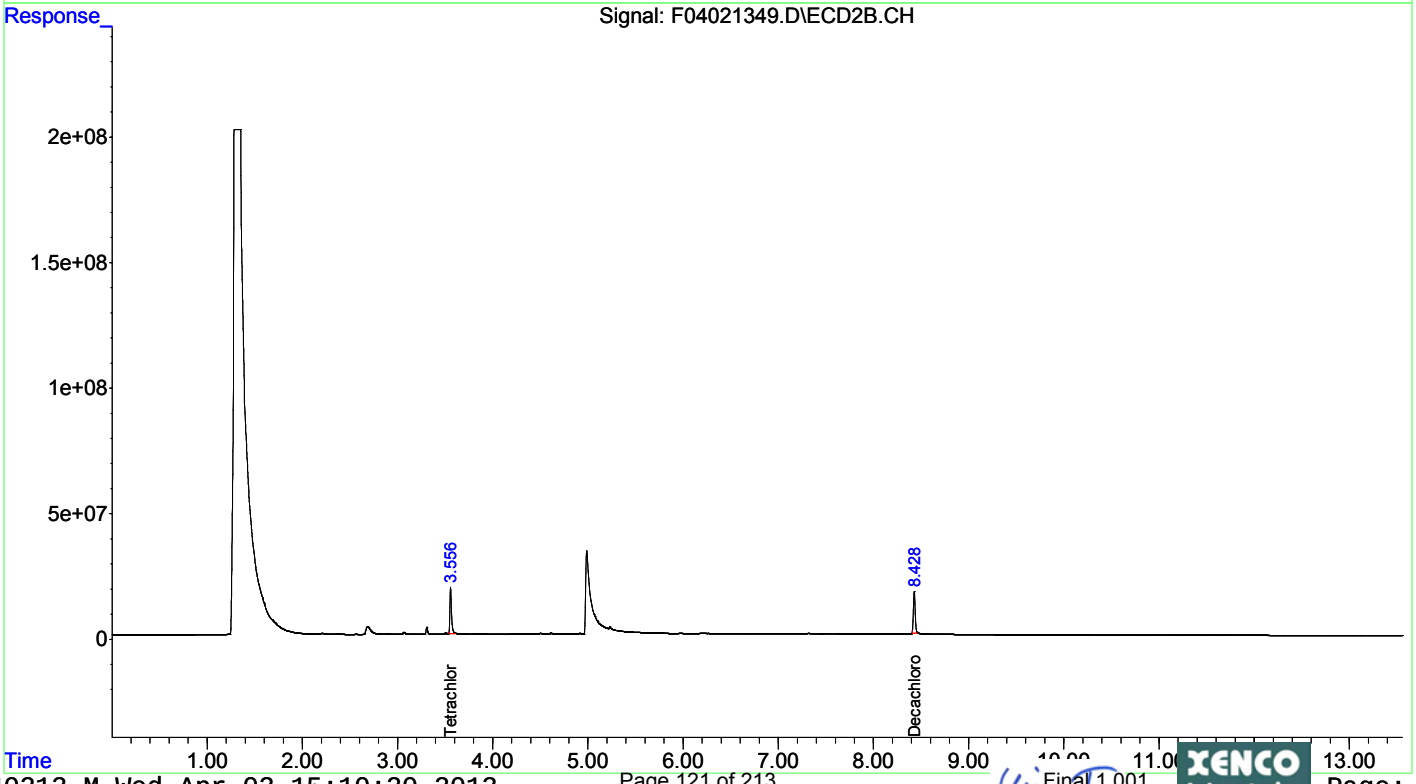
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021349.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 8:11
Operator : NT
Sample : 460271-020
Misc :
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:49:30 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021357.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 10:31
Operator : NT
Sample : 460271-021
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:54:14 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S Tetrachlo...	3.369	3.557	16828845	179.0E6	38.174	43.806
Spiked Amount 50.000	Range 30 - 50		Recovery =		76.35%#	87.61%#
22) S Decachlor...	7.555	8.428	24074962	201.4E6	51.204	54.965
Spiked Amount 50.000			Recovery =		102.41%	109.93%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

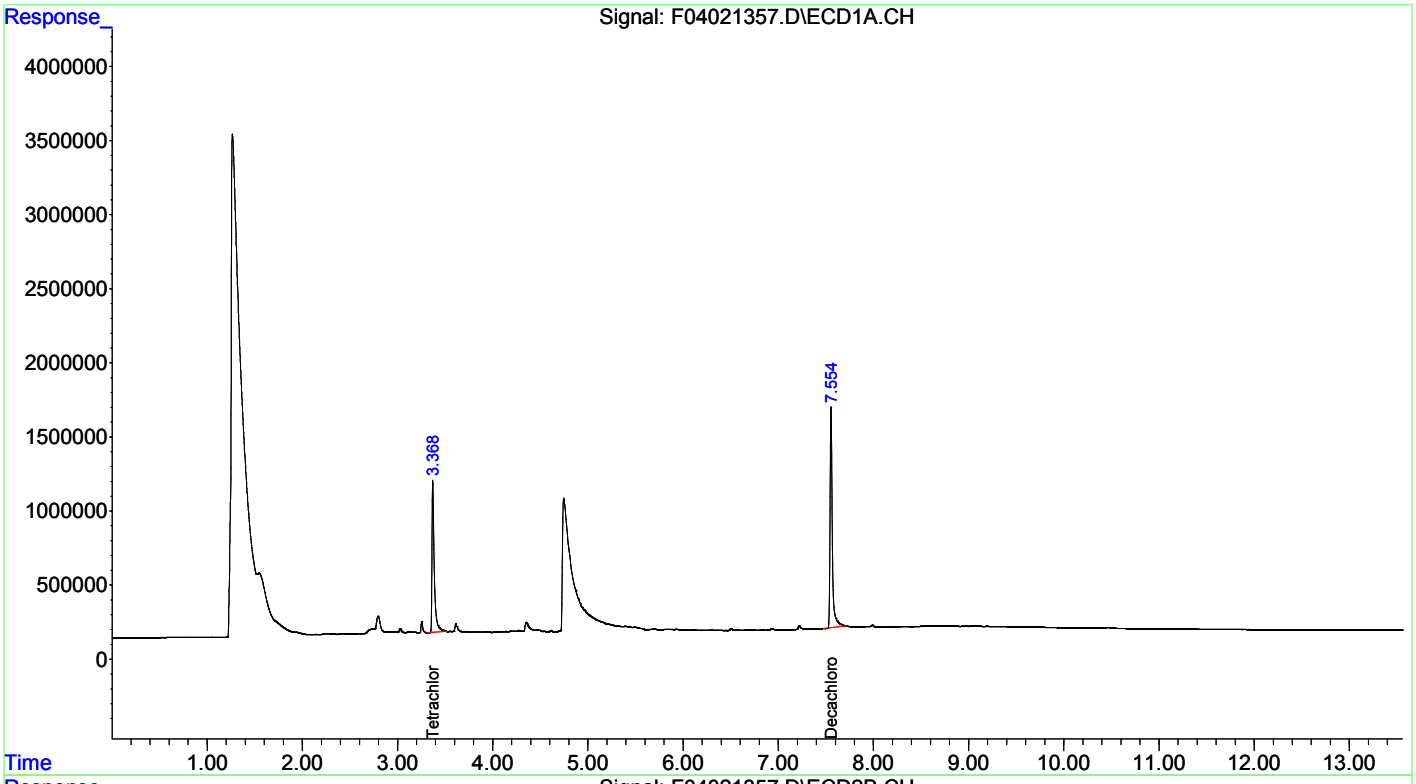
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

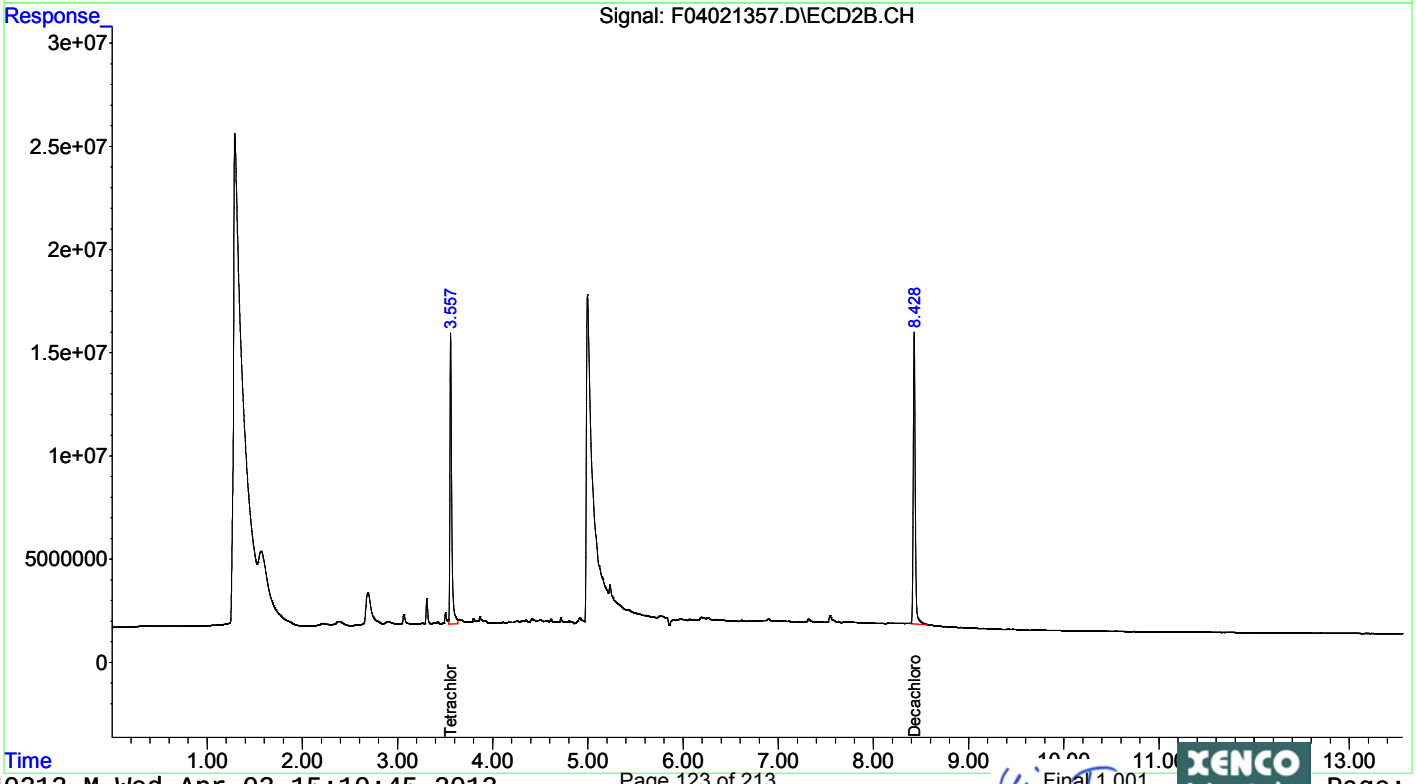
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021357.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 10:31
Operator : NT
Sample : 460271-021
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:54:14 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021358.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 10:49
Operator : NT
Sample : 460271-022
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:54:43 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S Tetrachlo...	3.369	3.557	22910464	221.9E6	51.970	54.303m
Spiked Amount 50.000	Range 30 - 50		Recovery = 103.94%#		108.61%#	
22) S Decachlor...	7.555	8.429	26010402	200.1E6	55.320	54.594m
Spiked Amount 50.000			Recovery = 110.64%		109.19%	
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

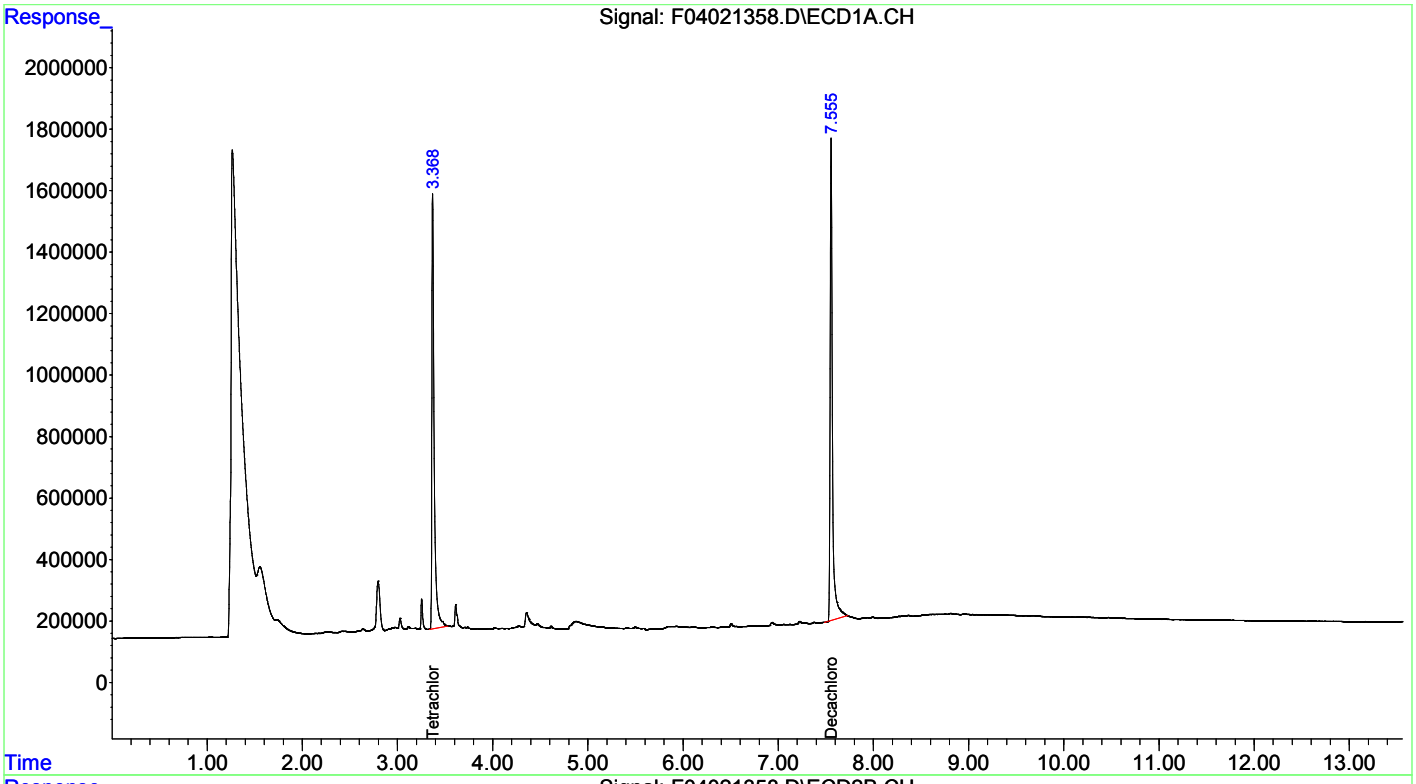
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

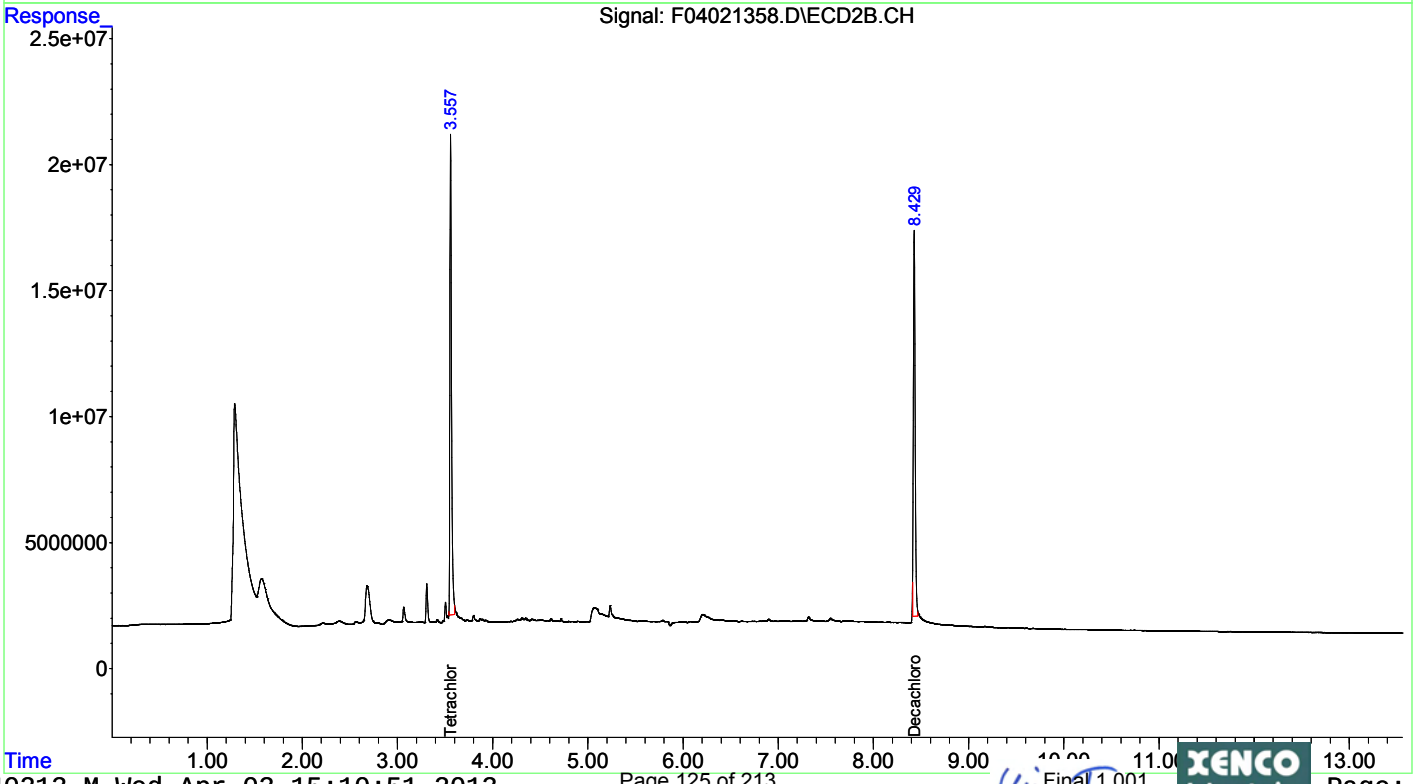
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021358.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 10:49
Operator : NT
Sample : 460271-022
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:54:43 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021359.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 11:06
Operator : NT
Sample : 460271-023
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:55:04 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S Tetrachlo...	3.370	3.557	18623152	191.1E6	42.244	46.764
Spiked Amount	50.000	Range 30 - 50		Recovery =	84.49%#	93.53%#
22) S Decachlor...	7.554	8.428	24538290	202.3E6	52.189	55.188
Spiked Amount	50.000			Recovery =	104.38%	110.38%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

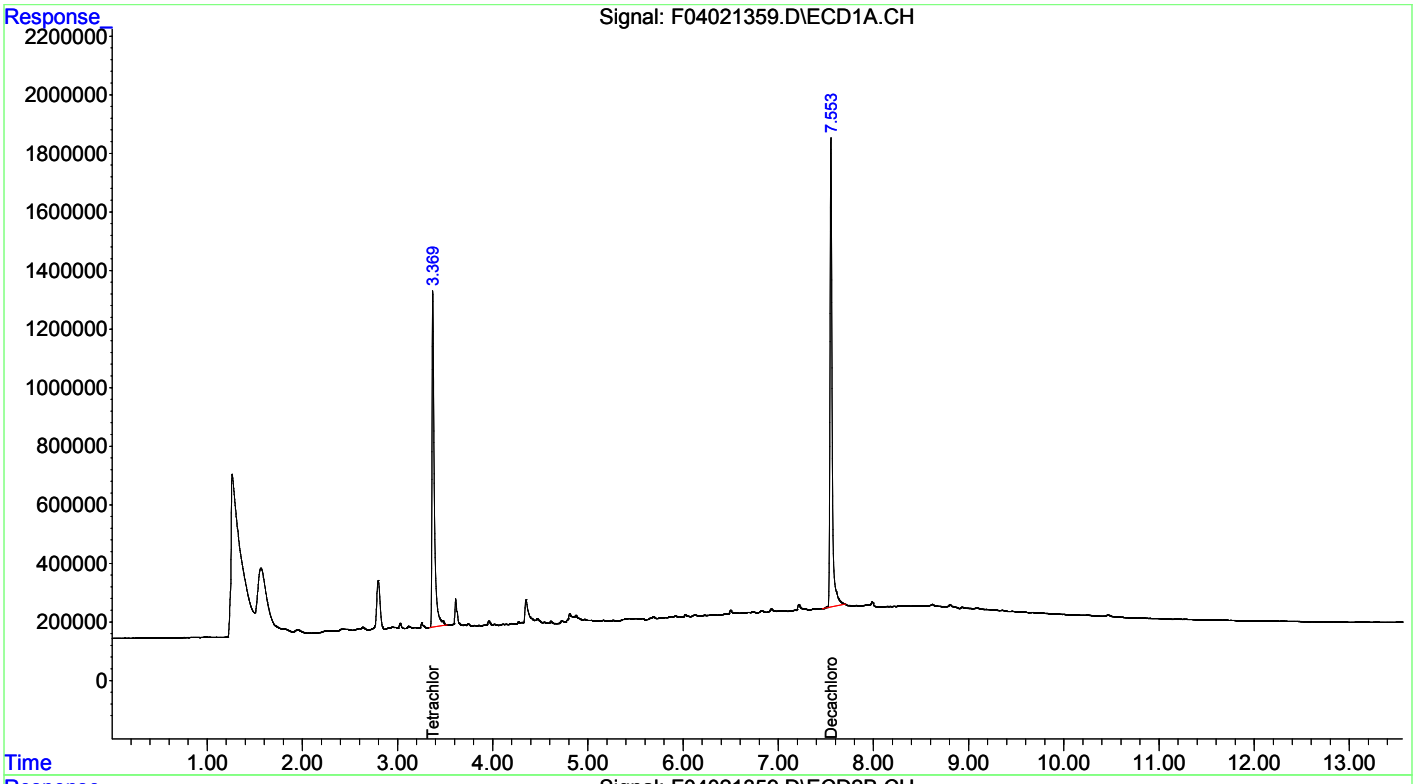
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

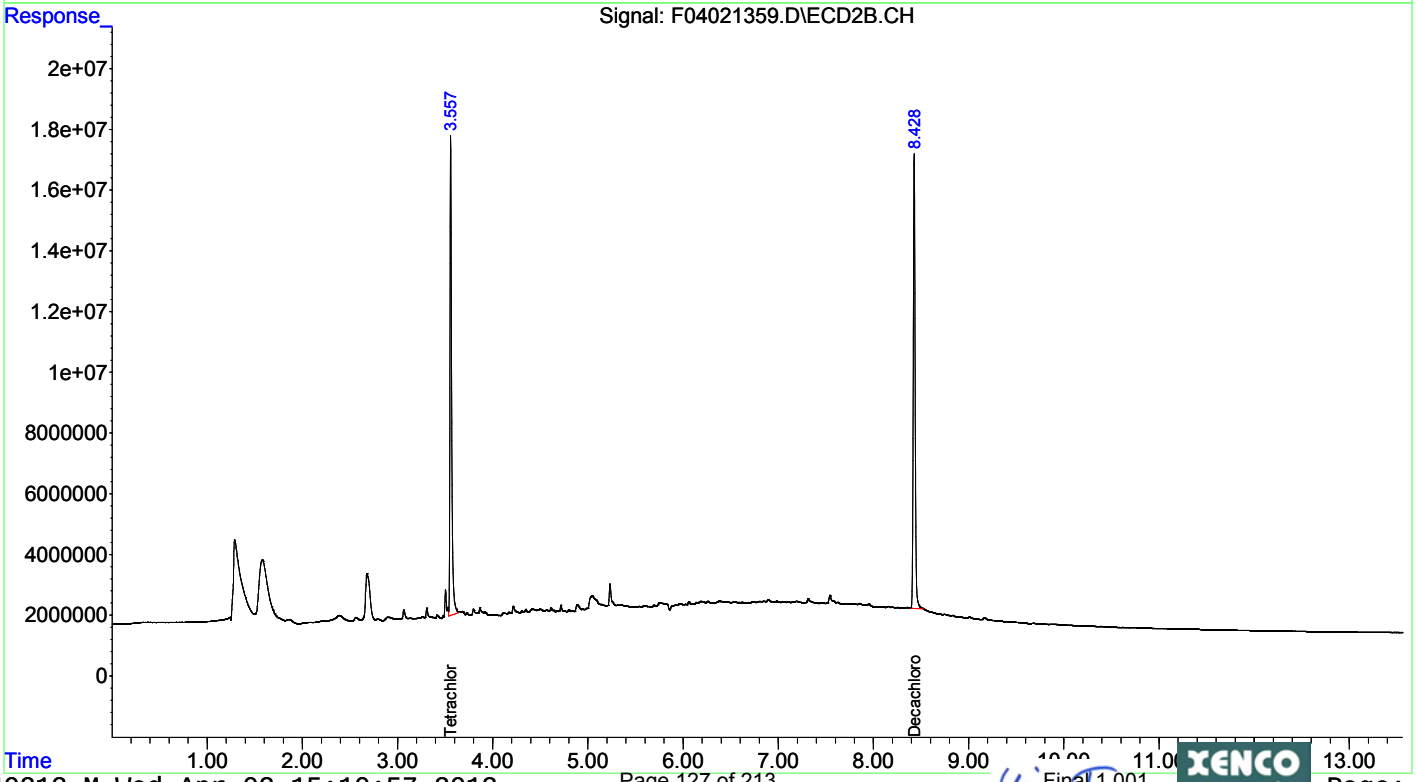
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021359.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 11:06
Operator : NT
Sample : 460271-023
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:55:04 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021360.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 11:24
Operator : NT
Sample : 460271-024
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:55:25 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S Tetrachlo...	3.369	3.557	17673055	188.0E6	40.089	46.023
Spiked Amount 50.000	Range 30 - 50		Recovery =		80.18%#	92.05%#
22) S Decachlor...	7.554	8.428	23191102	198.6E6	49.324	54.197
Spiked Amount 50.000			Recovery =		98.65%	108.39%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

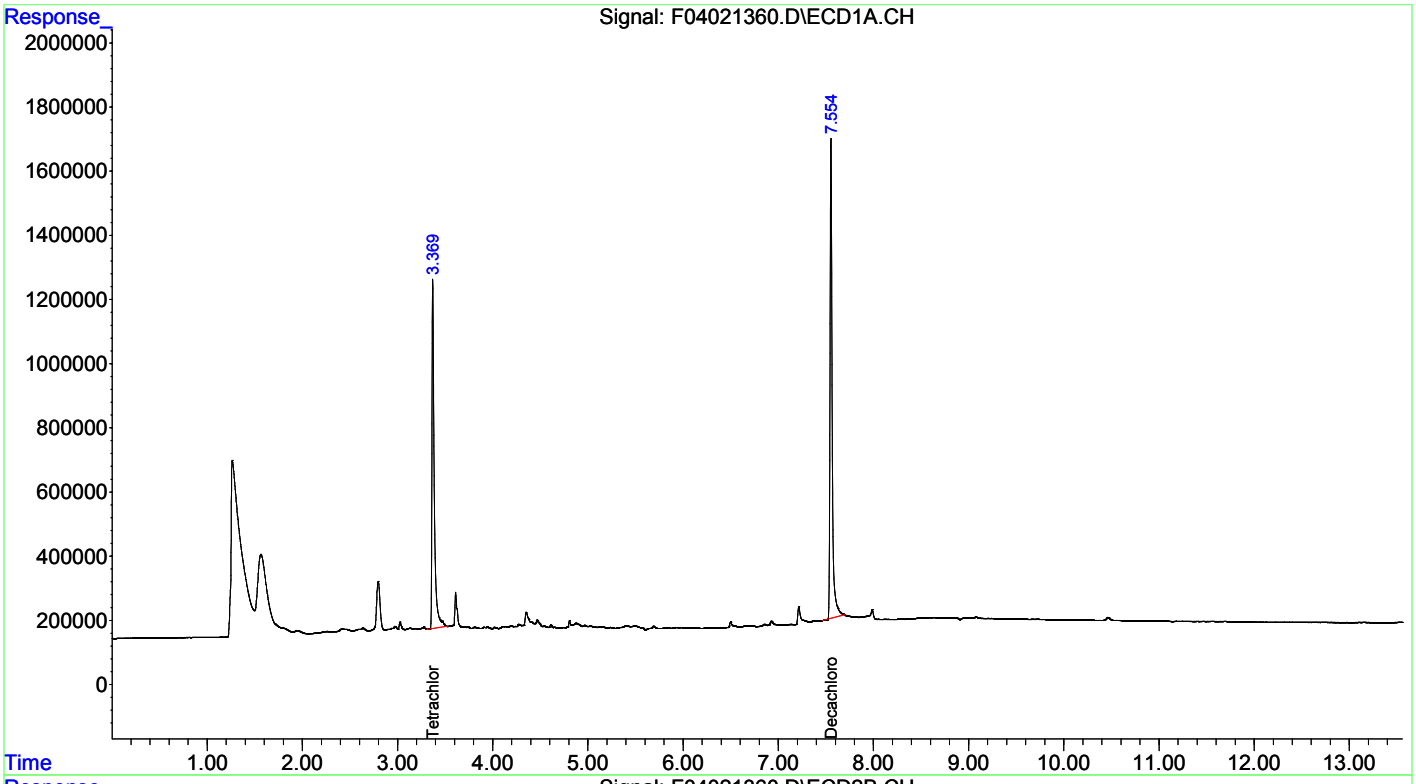
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

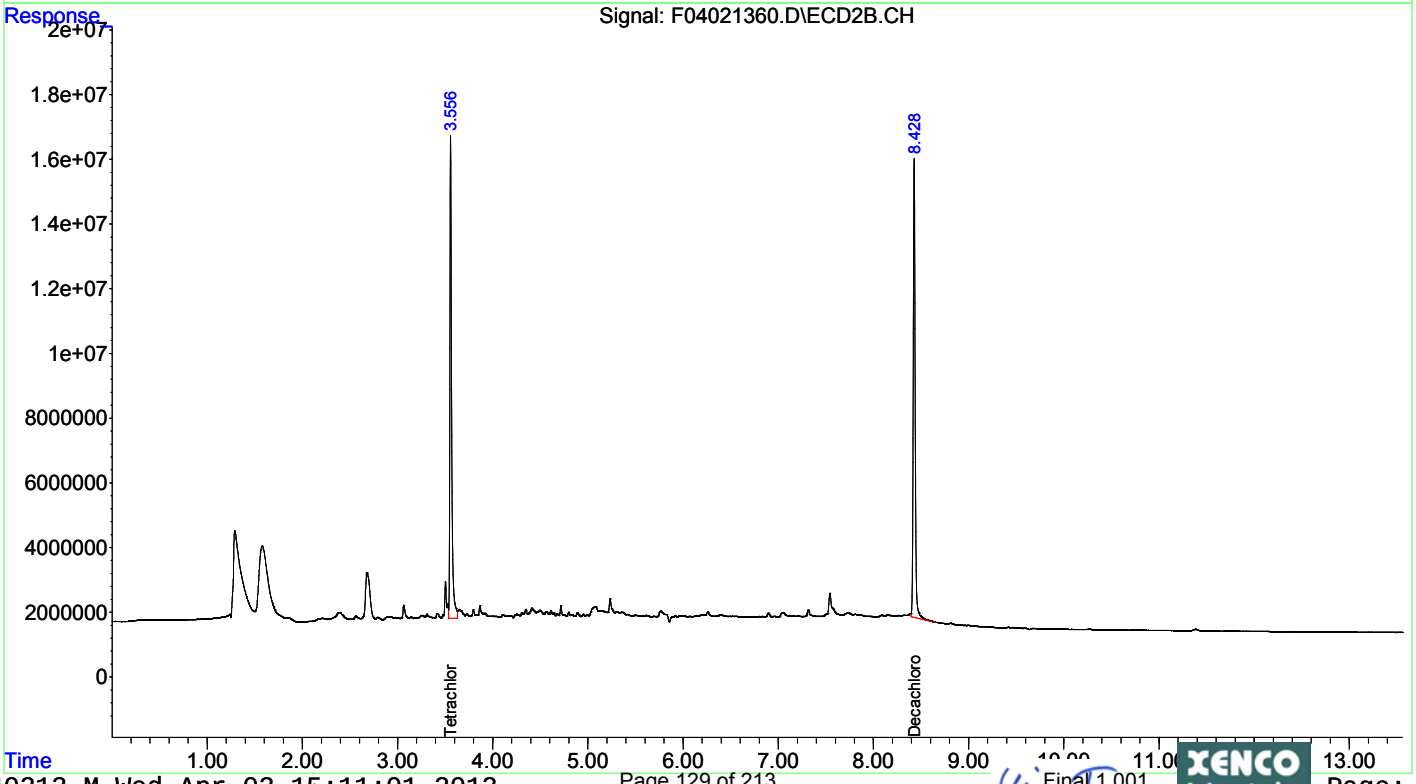
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021360.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 11:24
Operator : NT
Sample : 460271-024
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:55:25 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021327.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 1:45
Operator : NT
Sample : 636005-1-BLK
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:33:28 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S Tetrachlo...	3.368	3.556	17086005	180.2E6	38.758	44.102
Spiked Amount 50.000	Range 30 - 50		Recovery =		77.52%#	88.20%#
22) S Decachlor...	7.554	8.428	26068454	191.2E6	55.443	52.170m
Spiked Amount 50.000			Recovery =		110.89%	104.34%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

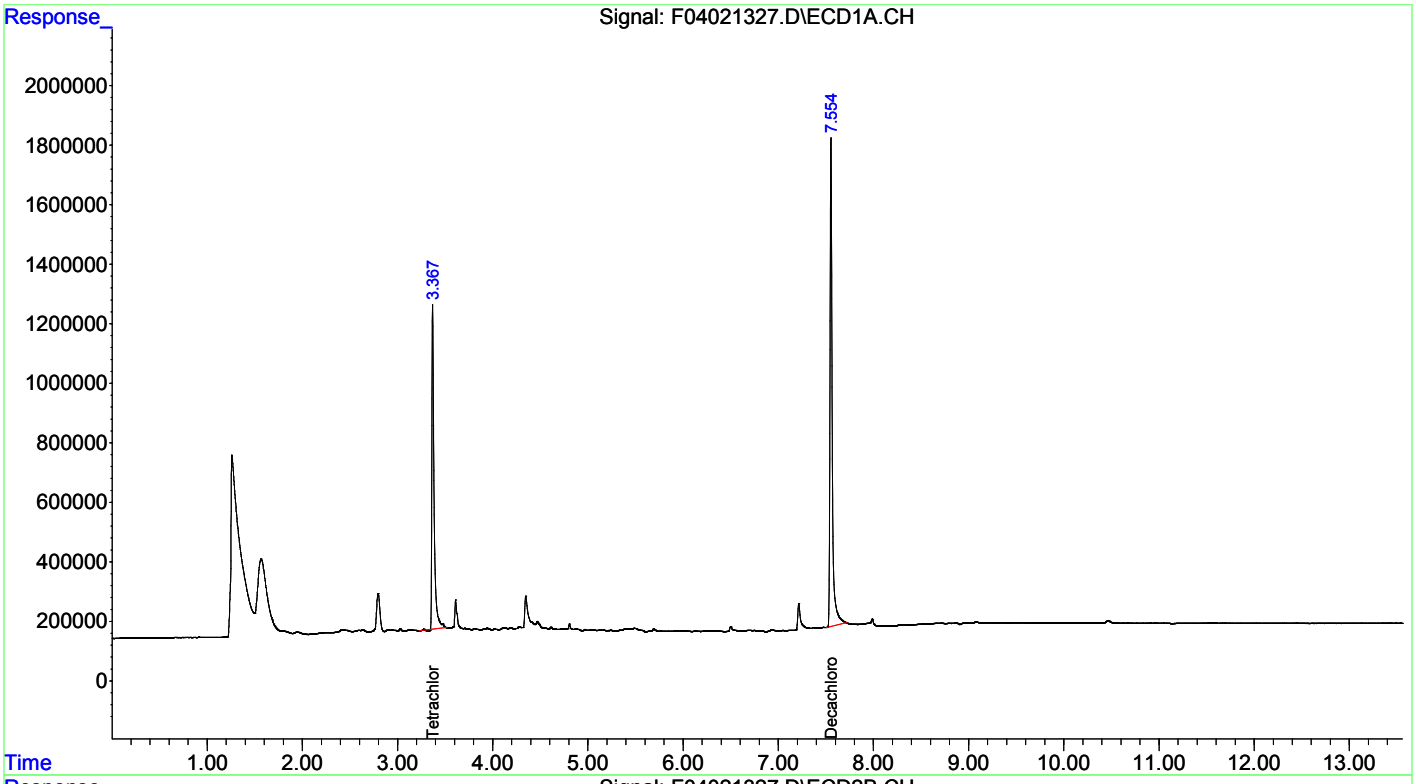
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

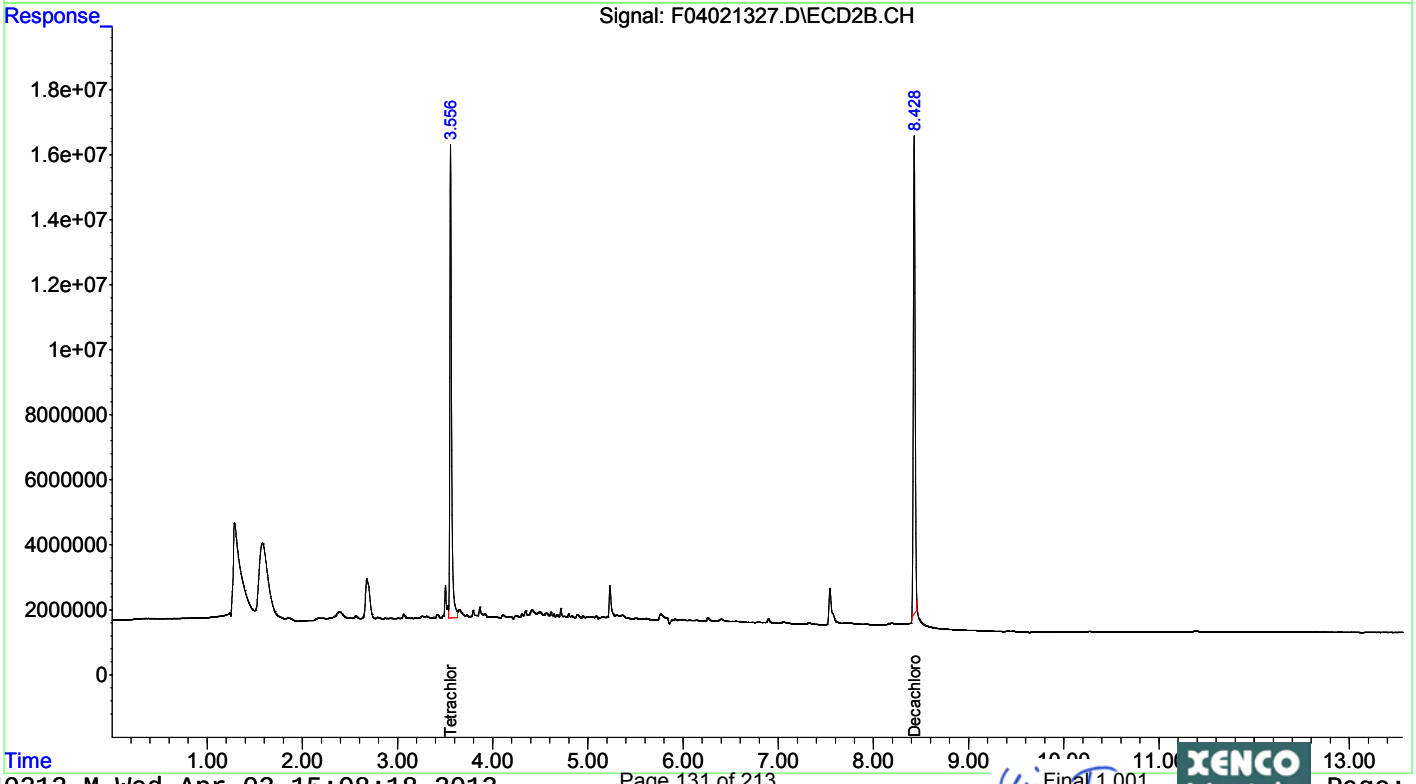
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021327.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 1:45
Operator : NT
Sample : 636005-1-BLK
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:33:28 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021354.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 9:38
Operator : NT
Sample : 636006-1-BLK
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:52:44 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S Tetrachlo...	3.370	3.557	17255397	185.3E6	39.142	45.358
Spiked Amount 50.000	Range 30 - 50		Recovery =		78.28%#	90.72%#
22) S Decachlor...	7.555	8.428	26748237	211.2E6	56.889	57.637m
Spiked Amount 50.000			Recovery =		113.78%	115.27%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

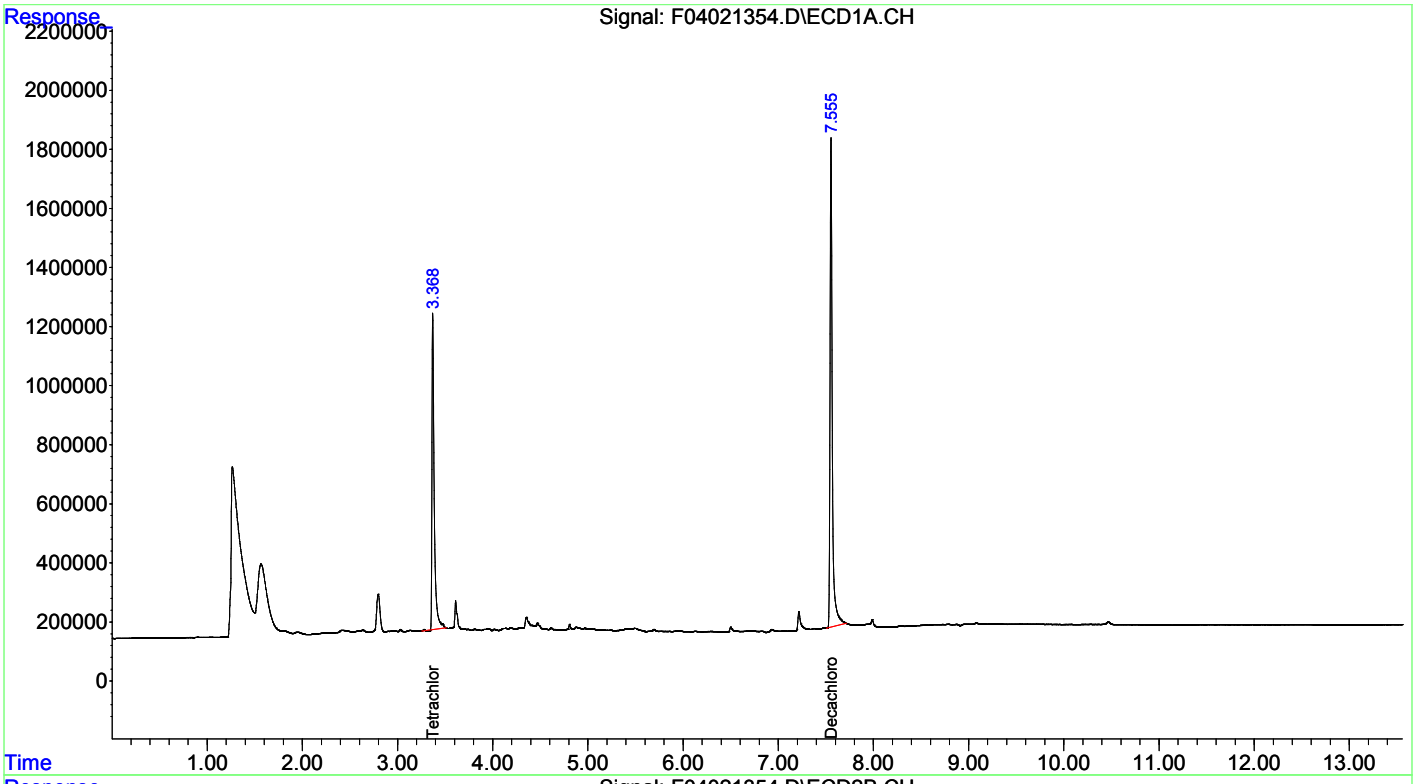
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

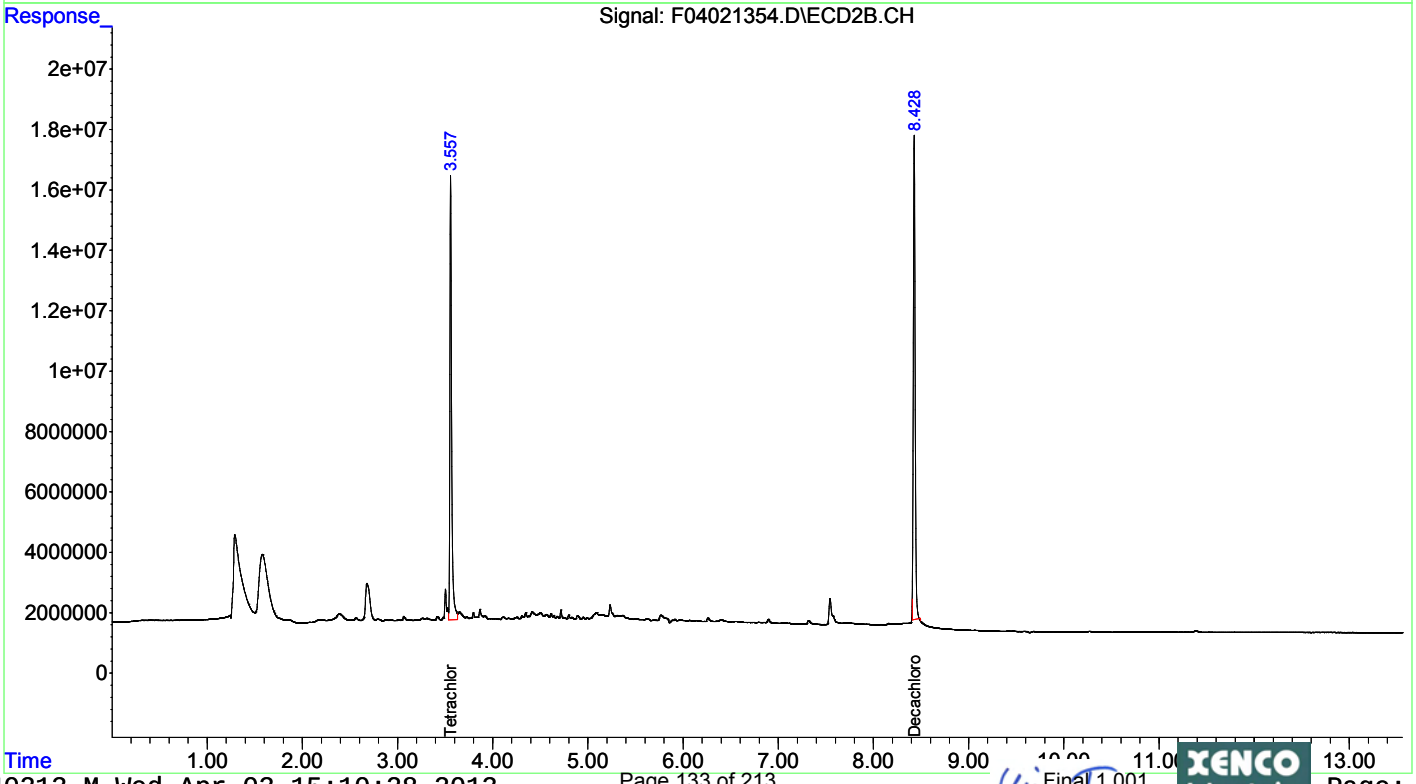
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021354.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 9:38
Operator : NT
Sample : 636006-1-BLK
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:52:44 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021370.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 15:12
Operator : NT
Sample : 460271-016S
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 15:41:06 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.365	3.551	15911804	201.3E6	36.094	49.267 #
	Spiked Amount	50.000	Range	30 - 50	Recovery	= 72.19%#	98.53%#
22) S	Decachlor...	7.553	8.425	22475497	206.0E6	47.802	56.208
	Spiked Amount	50.000			Recovery	= 95.60%	112.42%
	Target Compounds						
2) T	alpha-BHC	3.696	3.931	37561586	413.1E6	51.522	61.163m
3) T	beta-BHC	3.937	4.208	147.3E6	2086.1E6	622.708	882.178m#
4) T	gamma-BHC...	3.889	4.158	30977084	379.2E6	49.261	57.296m
5) T	delta-BHC	4.057	4.403	43281670	613.9E6	82.797	97.456m
6) T	Heptachlor	4.190	4.472	40540238	561.7E6	60.635	79.356m#
7) T	Aldrin	4.387	4.702	30778277	314.3E6	41.139	49.078m
8) T	Heptachlo...	4.780	5.105	28542094	297.1E6	46.992	50.932m
9) T	Endosulfan I	5.060	5.414	32082841	285.1E6	46.430	53.034m
10) T	gamma-Chl...	4.870	5.256	28812510	366.2E6	47.034	56.942
11) T	alpha-Chl...	4.964	5.414	26980031	316.0E6	46.666	58.767 #
12) T	4,4-DDE	5.016	5.490	26002454	247.6E6	57.297	45.948m
13) T	Dieldrin	5.238	5.632	29946347	310.5E6	48.210	50.602m
14) T	Endrin	5.415	5.881	23288470	239.7E6	46.002	50.720m
15) T	4,4-DDD	5.466	5.971	17112398	178.9E6	42.201	48.851m
16) T	Endosulfa...	5.588	6.058	25676121	265.4E6	48.298	51.423m
17) T	Endrin al...	5.920	6.347	21338648	211.1E6	50.826	51.699m
18) T	4,4-DDT	5.682	6.251	22854363	215.2E6	51.072	50.297m
19) T	Endosulfa...	6.289	6.609	22083973	229.2E6	53.405	56.426m
20) T	Methoxychlor	6.097	6.878	30293300	267.4E6	141.208	150.050m
21) T	Endrin ke...	6.550	7.108	27692921	255.3E6	50.189	56.620m
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

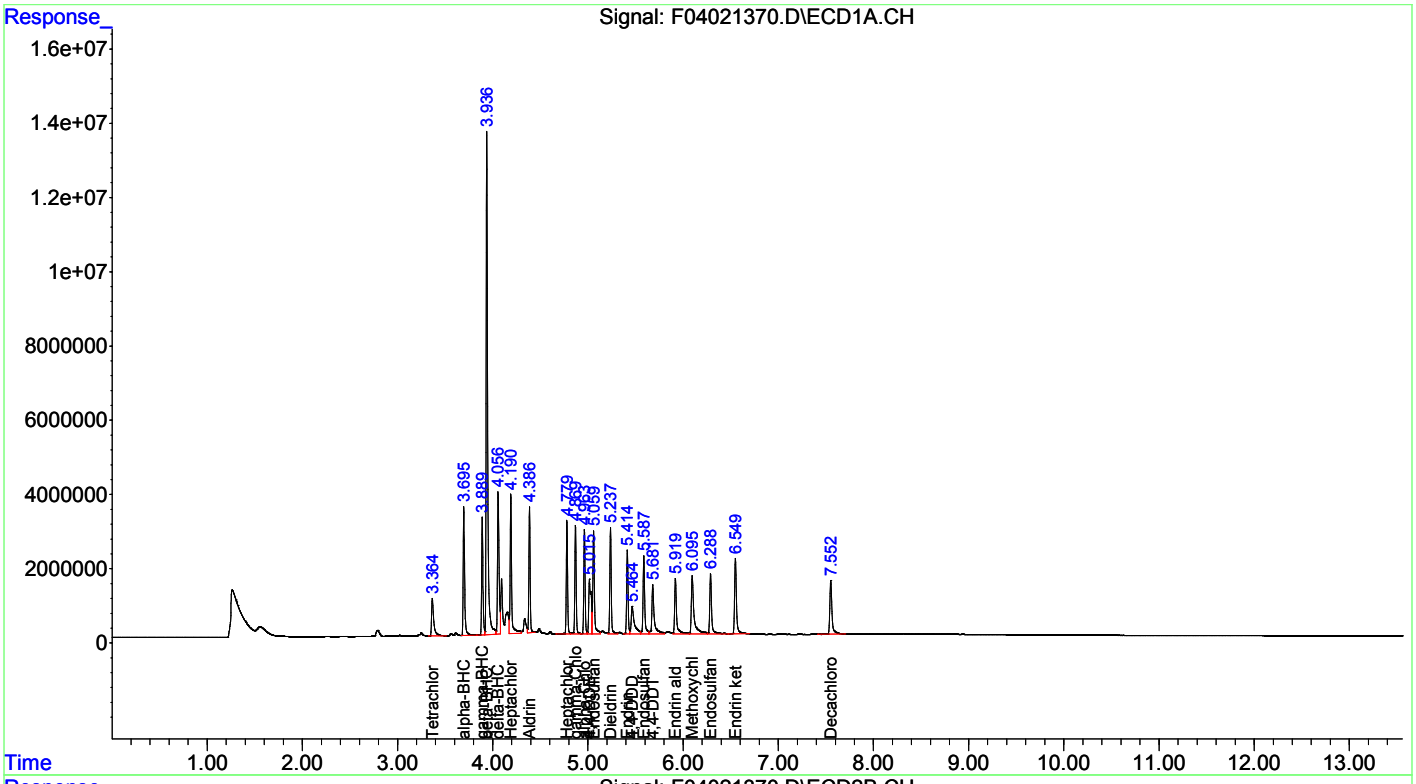
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

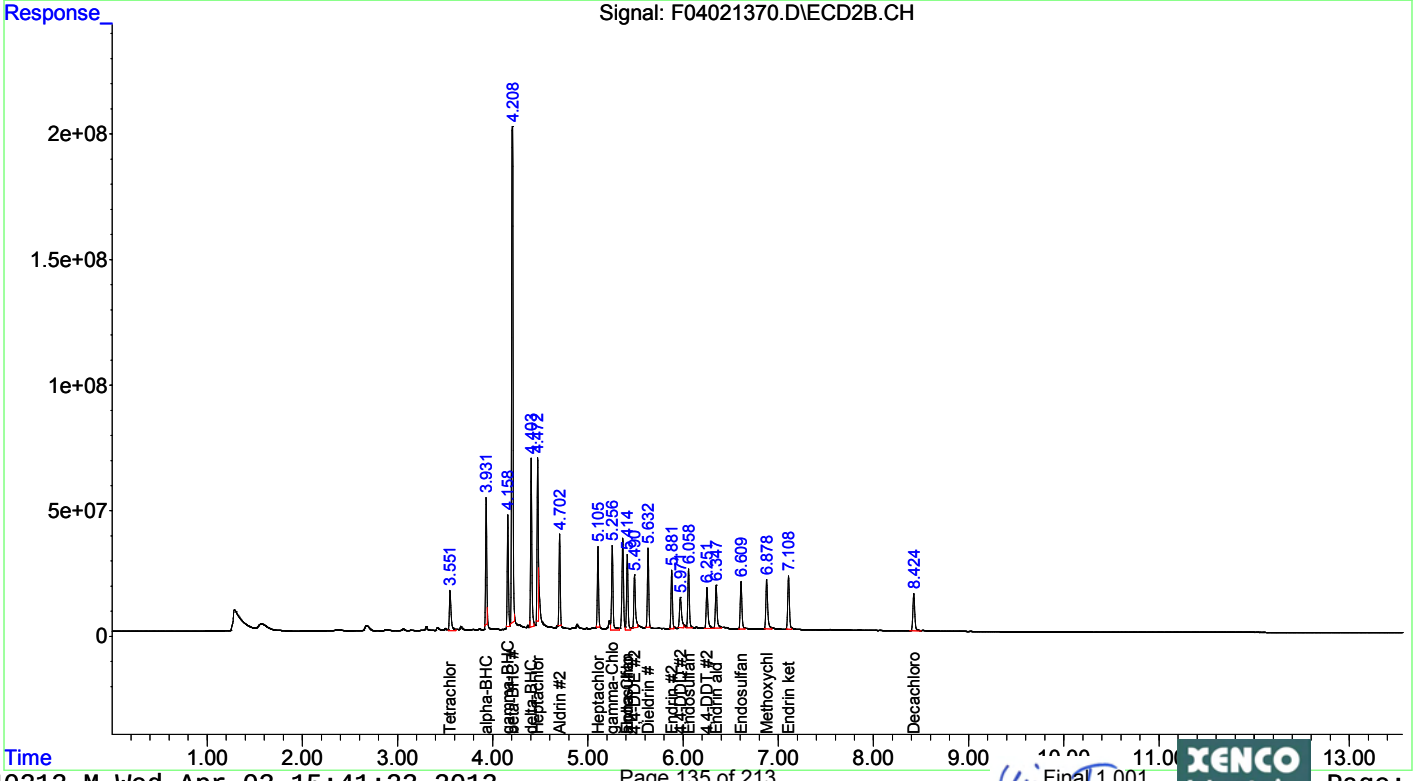
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021370.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 15:12
Operator : NT
Sample : 460271-016S
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 15:41:06 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021371.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 15:29
Operator : NT
Sample : 460271-018S
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 15:45:53 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.367	3.554	14585571	173.8E6	33.086	42.551 #
	Spiked Amount 50.000	Range 30 - 50		Recovery =		66.17%#	85.10%#
22) S	Decachlor...	7.550	8.424	21955078	193.4E6	46.695	52.763
	Spiked Amount 50.000			Recovery =		93.39%	105.53%
	Target Compounds						
2) T	alpha-BHC	3.695	3.933	138.8E6	1818.9E6	190.327	269.277m#
3) T	beta-BHC	3.934	4.220	638.3E6	4128.8E6	2698.112	1746.023 #
4) T	gamma-BHC...	3.888	4.159	79737417	980.5E6	126.801	148.132m
5) T	delta-BHC	4.054	4.404	106.3E6	1367.4E6	203.272	217.067m
6) T	Heptachlor	4.190	4.472	41202089	552.7E6	61.625	78.086m#
7) T	Aldrin	4.386	4.703	31607283	307.1E6	42.247	47.961m
8) T	Heptachlo...	4.779	5.106	30611979	290.4E6	50.400	49.770m
9) T	Endosulfan I	5.059	5.413	34709148	272.4E6	50.231	50.667m
10) T	gamma-Chl...	4.868	5.256	33294505	353.8E6	54.351	55.020
11) T	alpha-Chl...	4.963	5.413	30599211	280.2E6	52.926	52.117m
12) T	4,4-DDE	5.012	5.489	16980855	229.1E6	37.418m	42.517m
13) T	Dieldrin	5.236	5.631	33166298	304.0E6	53.393	49.539m
14) T	Endrin	5.413	5.880	27656553	242.7E6	54.631m	51.348m
15) T	4,4-DDD	5.459	5.969	20515967	176.0E6	50.595	48.071m
16) T	Endosulfa...	5.586	6.057	29646288	257.9E6	55.766	49.964m
17) T	Endrin al...	5.917	6.347	20691059	175.1E6	49.284	42.873m
18) T	4,4-DDT	5.678	6.250	19028780	198.1E6	42.523m	46.307m
19) T	Endosulfa...	6.287	6.608	21896817	233.5E6	52.953	57.480m
20) T	Methoxychlor	6.091	6.877	29286867	261.7E6	136.516	146.861m
21) T	Endrin ke...	6.548	7.107	28736085	246.9E6	52.079	54.740m
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

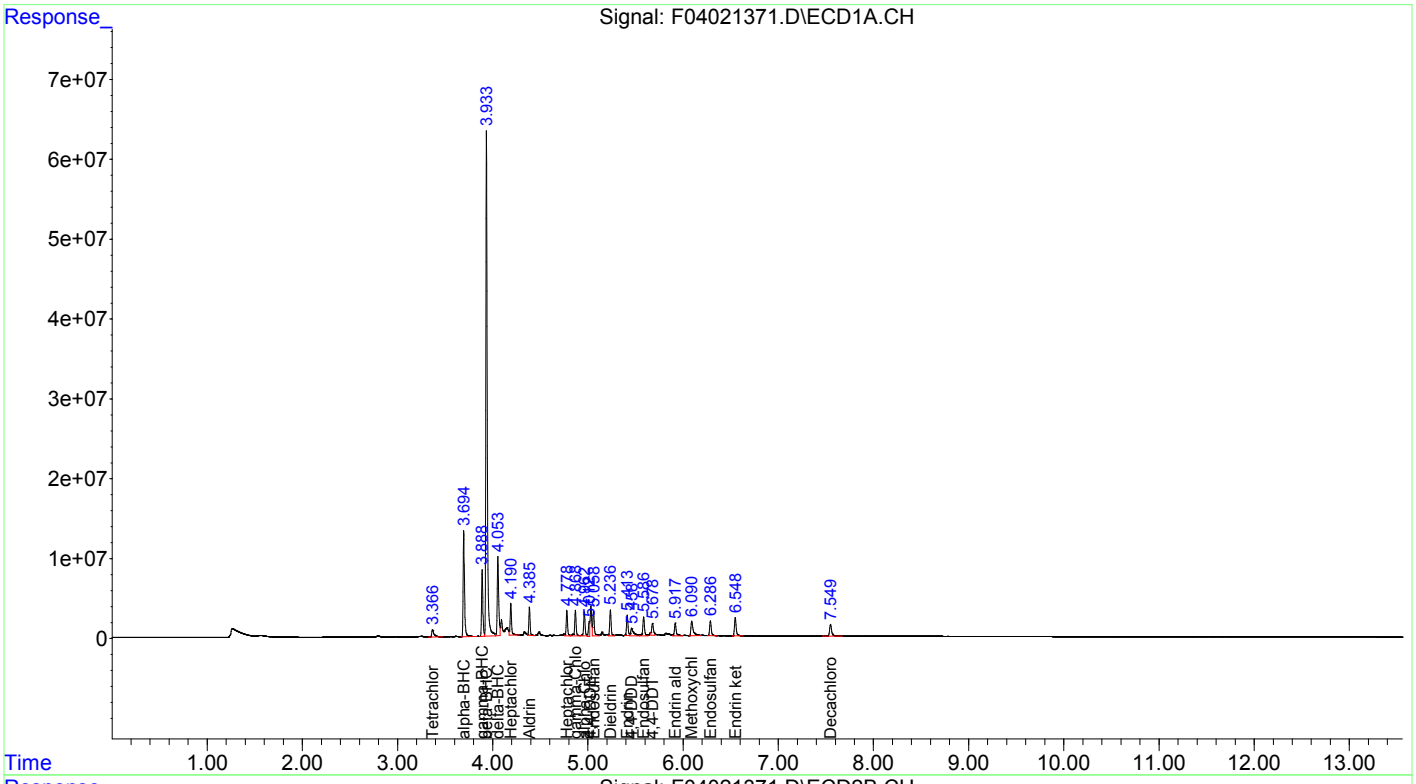
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

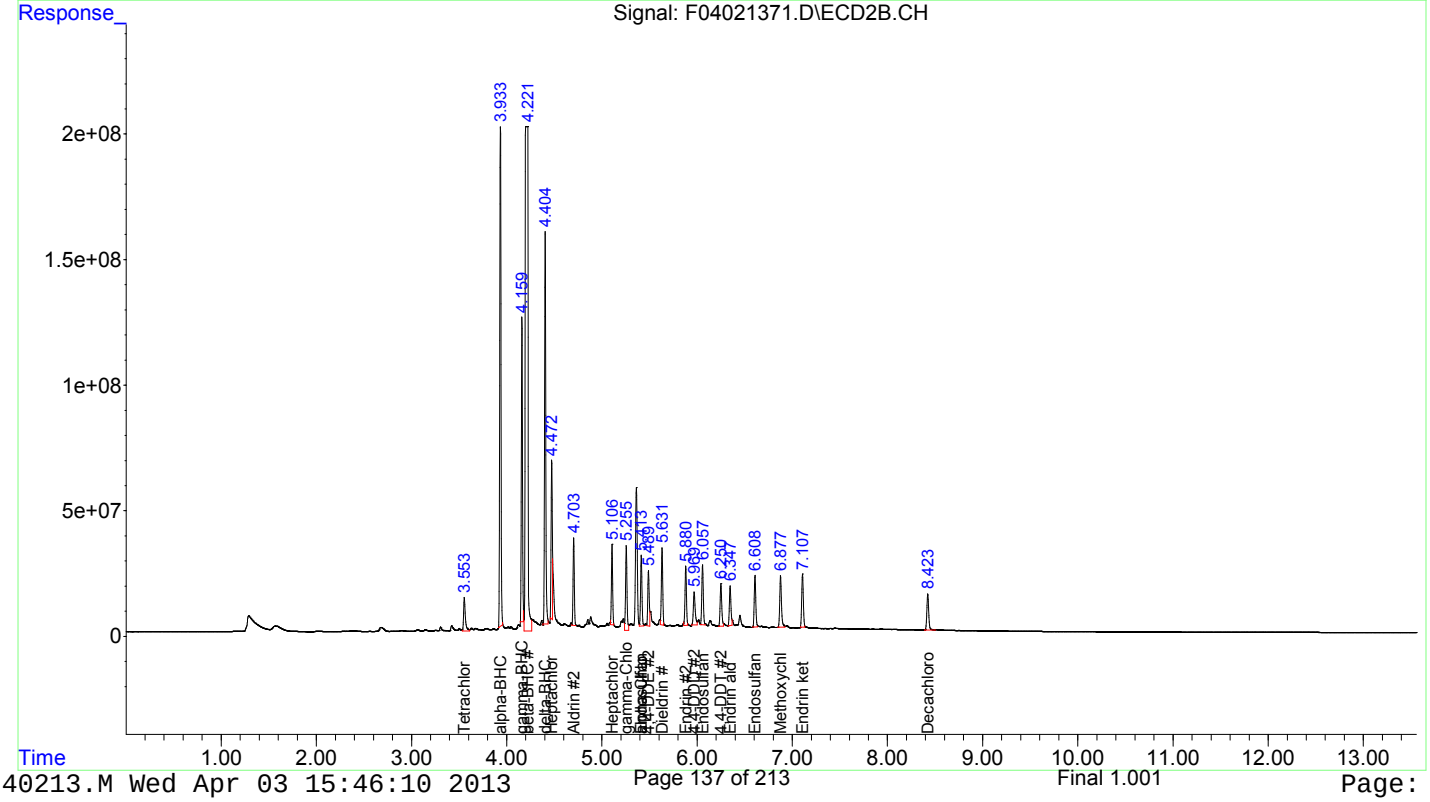
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021371.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 15:29
Operator : NT
Sample : 460271-018S
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 15:45:53 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021329.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 2:20
Operator : NT
Sample : 636005-1-BSD
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:35:42 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.368	3.556	15909639	160.2E6	36.089	39.213
	Spiked Amount 50.000	Range 30 - 50		Recovery =		72.18%#	78.43%#
22) S	Decachlor...	7.554	8.429	26291134	211.6E6	55.917	57.728
	Spiked Amount 50.000			Recovery =		111.83%	115.46%
	Target Compounds						
2) T	alpha-BHC	3.698	3.934	32263172	334.5E6	44.255	49.514
3) T	beta-BHC	3.947	4.209	12298345	112.5E6	51.985	47.588m
4) T	gamma-BHC...	3.892	4.161	30135836	329.8E6	47.923	49.831
5) T	delta-BHC	4.061	4.407	28154729	339.9E6	53.859	53.963
6) T	Heptachlor	4.192	4.476	31424952	353.1E6	47.002	49.885
7) T	Aldrin	4.388	4.706	36004782	339.7E6	48.125m	53.049
8) T	Heptachlo...	4.782	5.111	30486070	255.3E6	50.193	43.761
9) T	Endosulfan I	5.062	5.417	34656130	270.3E6	50.154	50.271m
10) T	gamma-Chl...	4.871	5.259	30476062	326.5E6	49.750	50.770m
11) T	alpha-Chl...	4.966	5.417	28757635	273.4E6	49.740	50.848m
12) T	4,4-DDE	5.017	5.493	22024151	262.6E6	48.531	48.740m
13) T	Dieldrin	5.240	5.636	30694239	296.6E6	49.414	48.338m
14) T	Endrin	5.417	5.885	16645209	166.1E6	32.880	35.141m
15) T	4,4-DDD	5.467	5.975	18539739	184.9E6	45.721	50.504m
16) T	Endosulfa...	5.591	6.062	21417254	239.8E6	40.287	46.470m
17) T	Endrin al...	5.923	6.352	17254490	205.8E6	41.098	50.406
18) T	4,4-DDT	5.684	6.255	22811966	212.4E6	50.978	49.645m
19) T	Endosulfa...	6.292	6.613	22108653	208.5E6	53.465	51.329m
20) T	Methoxychlor	6.098	6.882	32979078	261.3E6	153.727	146.642m
21) T	Endrin ke...	6.553	7.113	31965922	273.3E6	57.933m	60.606m
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

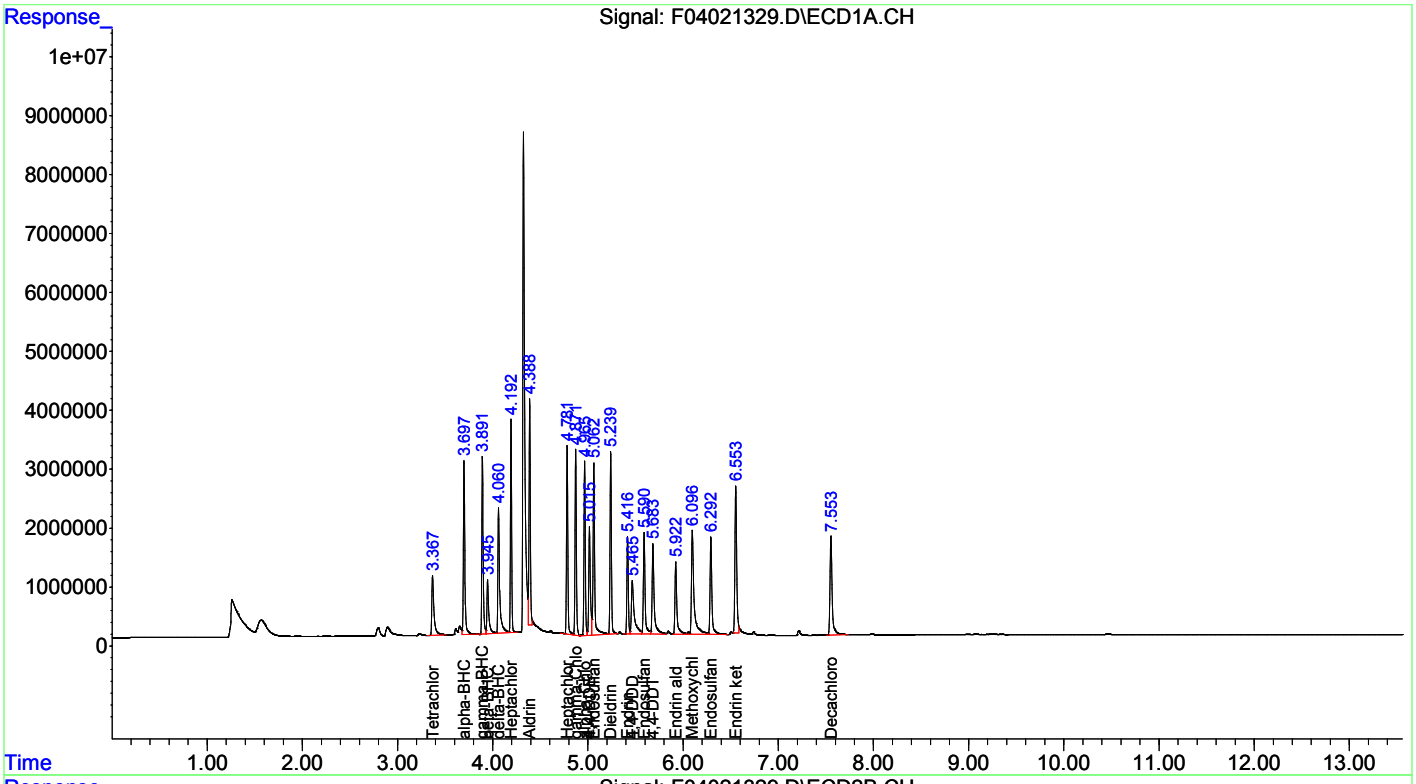
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

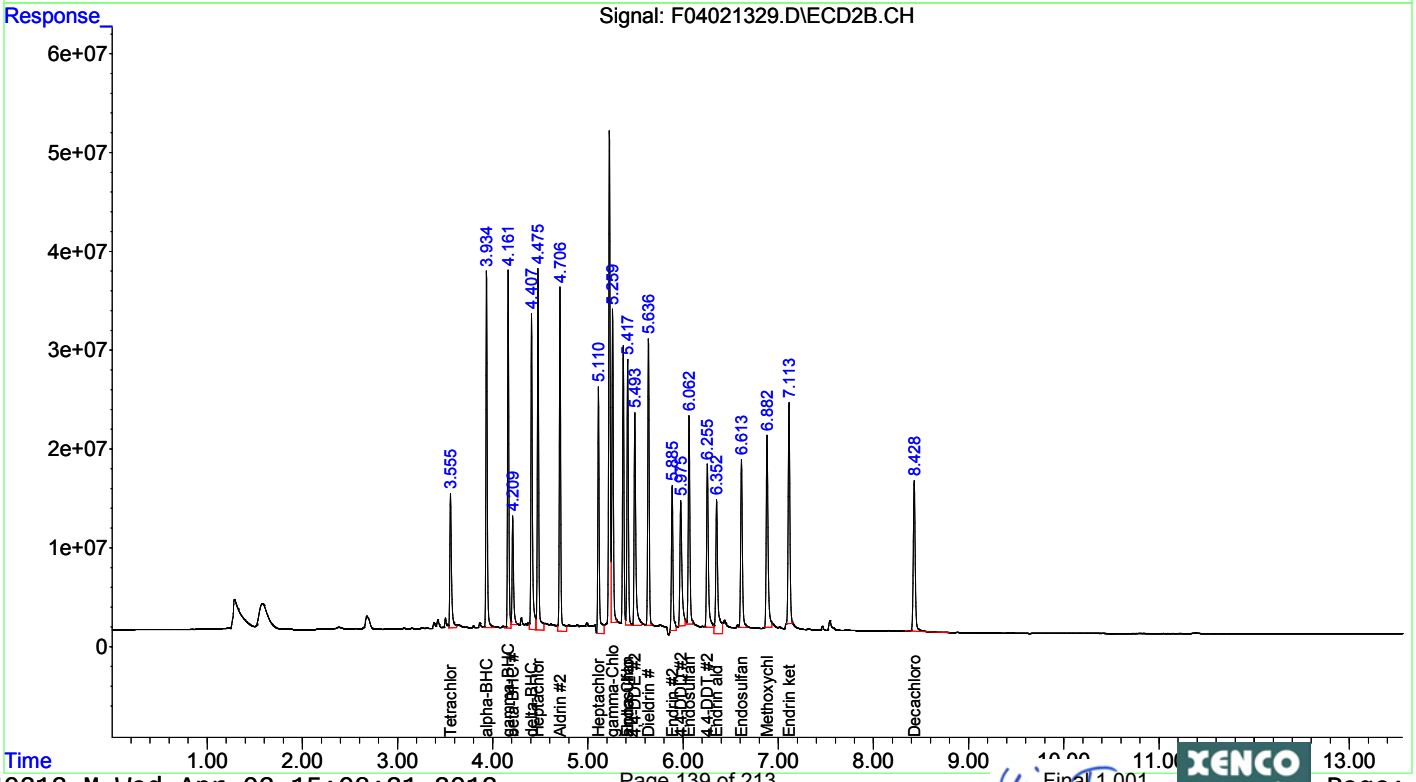
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021329.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 2:20
Operator : NT
Sample : 636005-1-BSD
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:35:42 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021356.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 10:14
Operator : NT
Sample : 636006-1-BSD
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:53:38 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.369	3.557	16095767	166.6E6	36.511	40.779
	Spiked Amount 50.000	Range 30 - 50		Recovery =		73.02%#	81.56%#
22) S	Decachlor...	7.555	8.428	26625933	209.0E6	56.629	57.036m
	Spiked Amount 50.000			Recovery =		113.26%	114.07%
	Target Compounds						
2) T	alpha-BHC	3.699	3.935	31381788	350.9E6	43.046	51.954
3) T	beta-BHC	3.948	4.211	12393123	137.0E6	52.386	57.924
4) T	gamma-BHC...	3.893	4.162	30830051	339.3E6	49.027	51.264
5) T	delta-BHC	4.063	4.409	27943031	337.8E6	53.454	53.627
6) T	Heptachlor	4.193	4.477	32639320	359.5E6	48.818	50.787
7) T	Aldrin	4.389	4.707	32328394	333.6E6	43.211	52.097
8) T	Heptachlo...	4.782	5.111	30730746	316.4E6	50.595	54.234
9) T	Endosulfan I	5.063	5.418	35564041	300.7E6	51.468	55.932
10) T	gamma-Chl...	4.872	5.261	31421631	336.3E6	51.293	52.297
11) T	alpha-Chl...	4.966	5.418	29464221	300.7E6	50.962	55.932
12) T	4,4-DDE	5.019	5.494	20372254	303.3E6	44.891	56.280 #
13) T	Dieldrin	5.241	5.637	31637413	340.9E6	50.932	55.552
14) T	Endrin	5.418	5.886	16578857	172.9E6	32.749	36.588
15) T	4,4-DDD	5.470	5.978	17898767	214.4E6	44.141	58.547 #
16) T	Endosulfa...	5.591	6.063	26530803	306.2E6	49.905	59.335
17) T	Endrin al...	5.923	6.353	17945932	198.6E6	42.745	48.641
18) T	4,4-DDT	5.685	6.257	22462302	235.5E6	50.196	55.050
19) T	Endosulfa...	6.293	6.614	23279875	217.7E6	56.297	53.601m
20) T	Methoxychlor	6.100	6.883	32874834	297.3E6	153.241	166.846
21) T	Endrin ke...	6.554	7.113	29865621	268.9E6	54.126m	59.624m
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

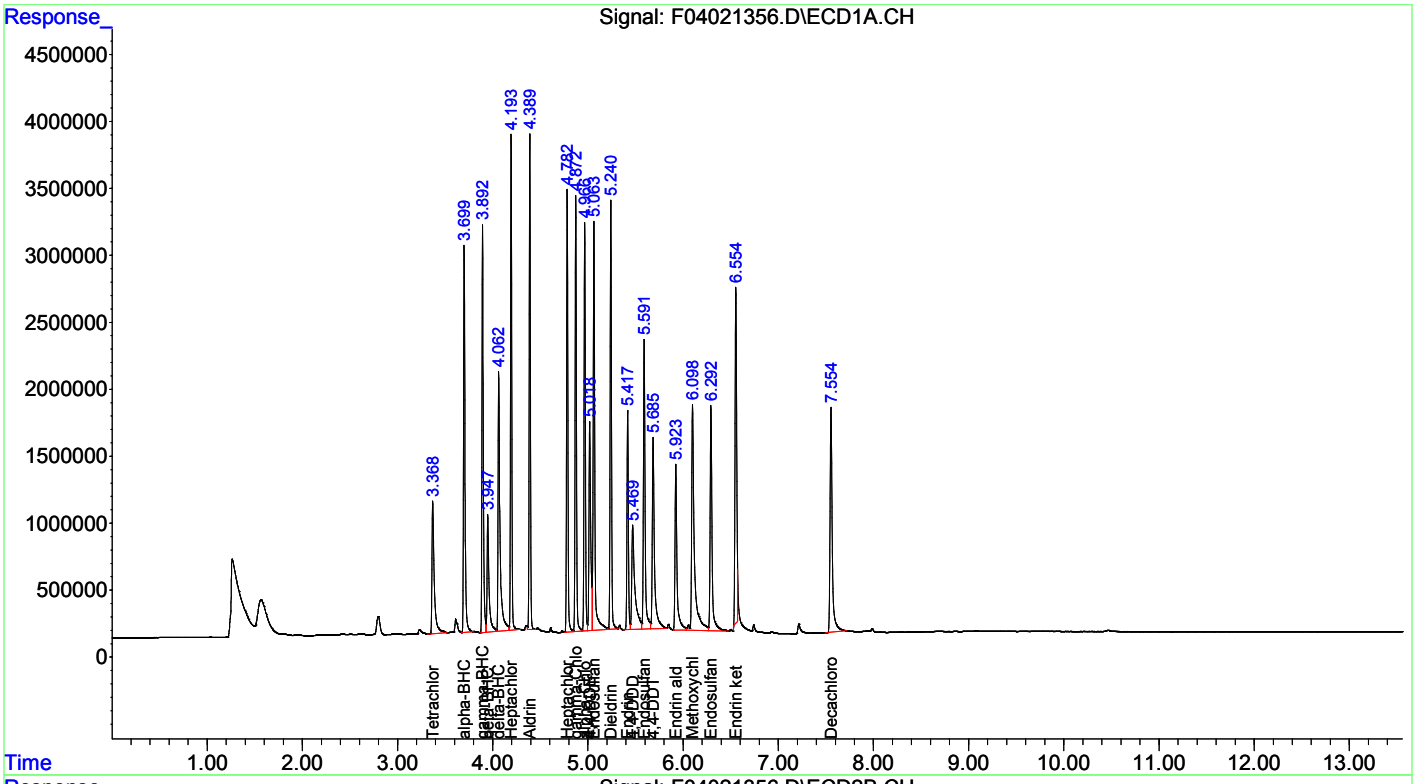
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

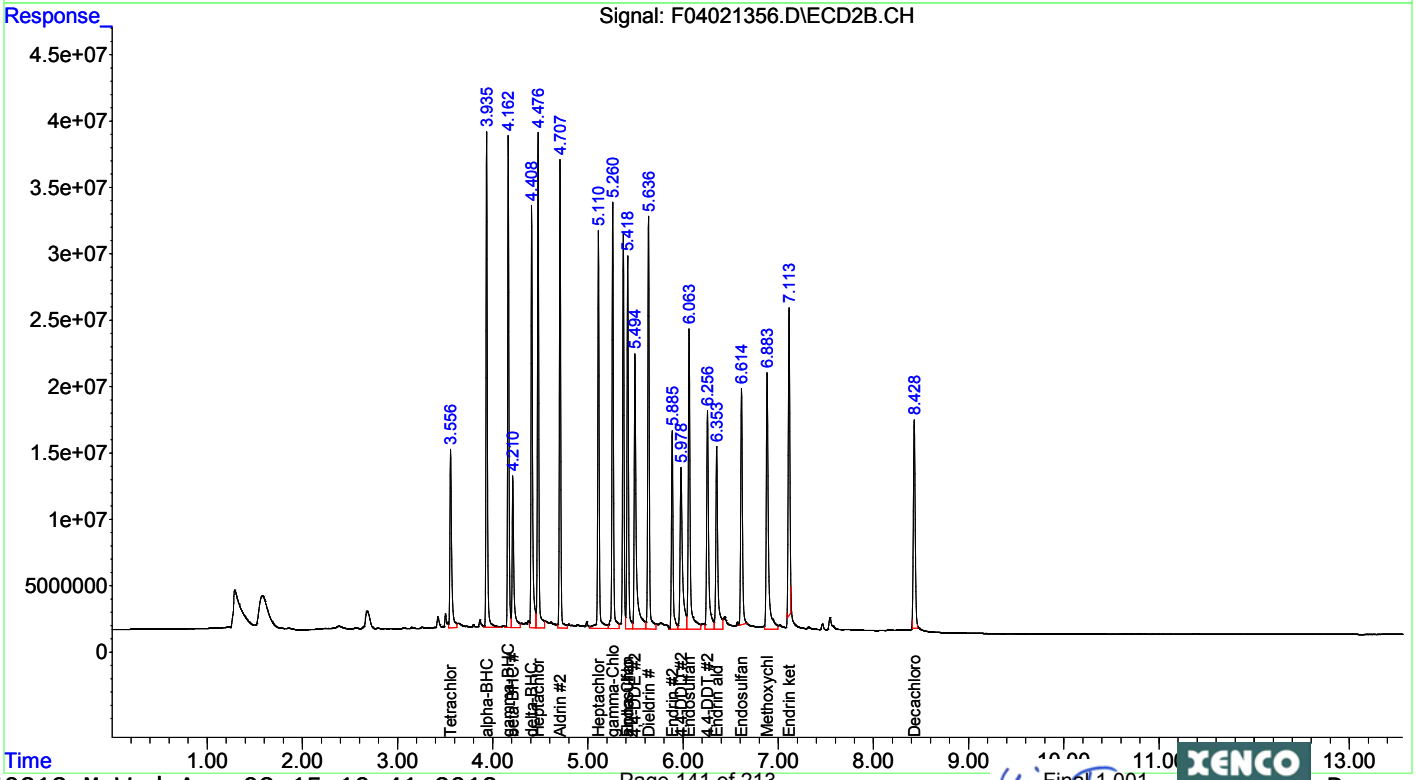
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021356.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 10:14
Operator : NT
Sample : 636006-1-BSD
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:53:38 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021328.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 2:03
Operator : NT
Sample : 636005-1-BKS
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:34:34 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.369	3.557	15554624	157.8E6	35.284	38.622
	Spiked Amount	50.000	Range 30 - 50		Recovery =	70.57%#	77.24%#
22) S	Decachlor...	7.555	8.428	25993450	203.5E6	55.284	55.517m
	Spiked Amount	50.000			Recovery =	110.57%	111.03%
	Target Compounds						
2) T	alpha-BHC	3.699	3.935	33647960	355.0E6	46.154	52.561
3) T	beta-BHC	3.946	4.210	12831628	114.2E6	54.240	48.297m
4) T	gamma-BHC...	3.892	4.162	30202733	337.0E6	48.029	50.921
5) T	delta-BHC	4.061	4.408	29181391	350.2E6	55.823	55.586
6) T	Heptachlor	4.193	4.476	31358914	382.0E6	46.903	53.971
7) T	Aldrin	4.388	4.706	36185983	341.3E6	48.367m	53.298
8) T	Heptachlo...	4.782	5.111	30724929	248.4E6	50.586	42.583
9) T	Endosulfan I	5.063	5.418	35142986	274.3E6	50.859	51.019m
10) T	gamma-Chl...	4.872	5.259	31006210	324.8E6	50.615	50.499m
11) T	alpha-Chl...	4.966	5.418	29226459	268.1E6	50.551	49.862m
12) T	4,4-DDE	5.017	5.493	22248168	260.1E6	49.024	48.268m
13) T	Dieldrin	5.240	5.636	31149753	299.6E6	50.147	48.826m
14) T	Endrin	5.418	5.885	24424143	219.2E6	48.246	46.382m
15) T	4,4-DDD	5.468	5.975	19433279	204.9E6	47.925	55.963m
16) T	Endosulfa...	5.592	6.063	21306873	241.9E6	40.079	46.862m
17) T	Endrin al...	5.923	6.353	21048650	194.6E6	50.136	47.672m
18) T	4,4-DDT	5.684	6.255	23288827	211.8E6	52.043	49.507m
19) T	Endosulfa...	6.292	6.614	21929378	211.5E6	53.032	52.078m
20) T	Methoxychlor	6.099	6.882	32622787	262.9E6	152.066	147.574m
21) T	Endrin ke...	6.554	7.113	30874510	233.7E6	55.955	51.828m
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

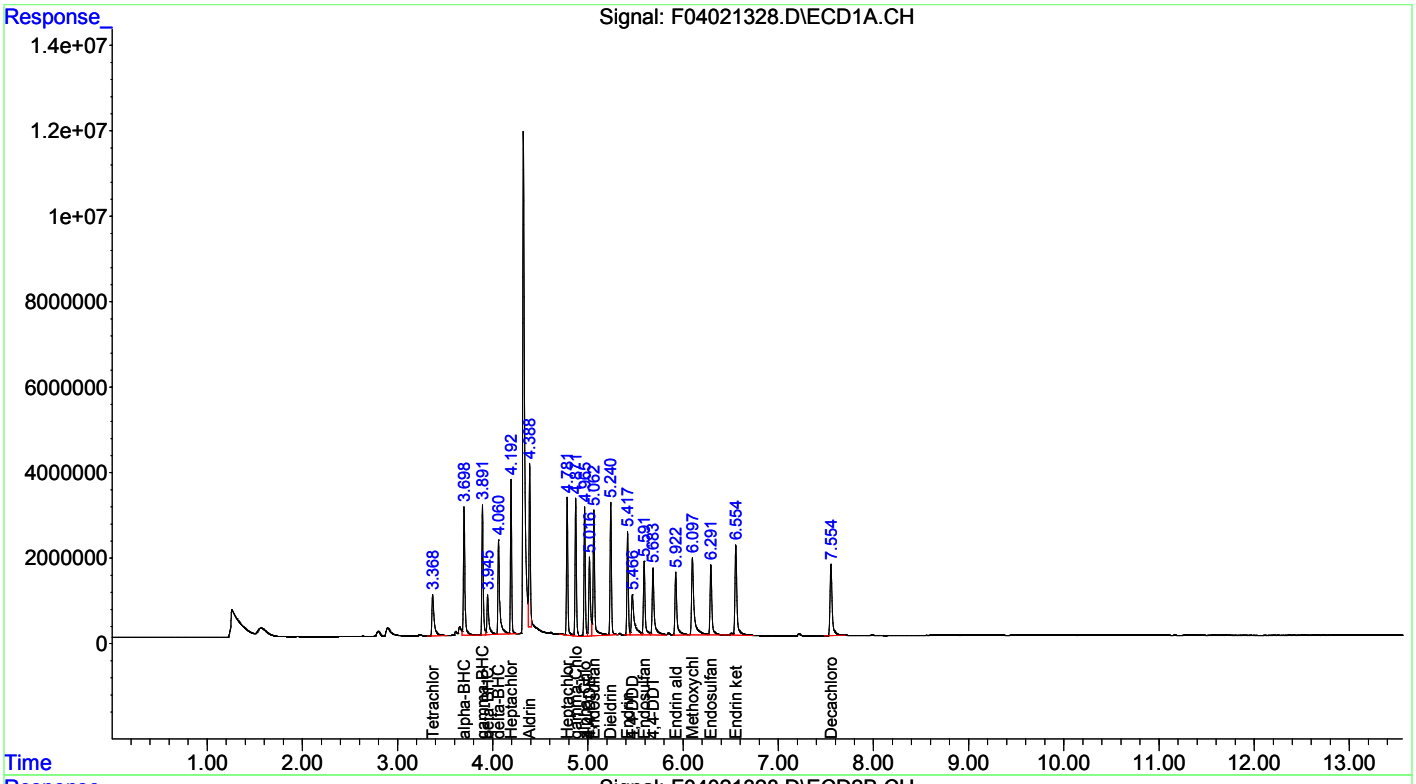
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

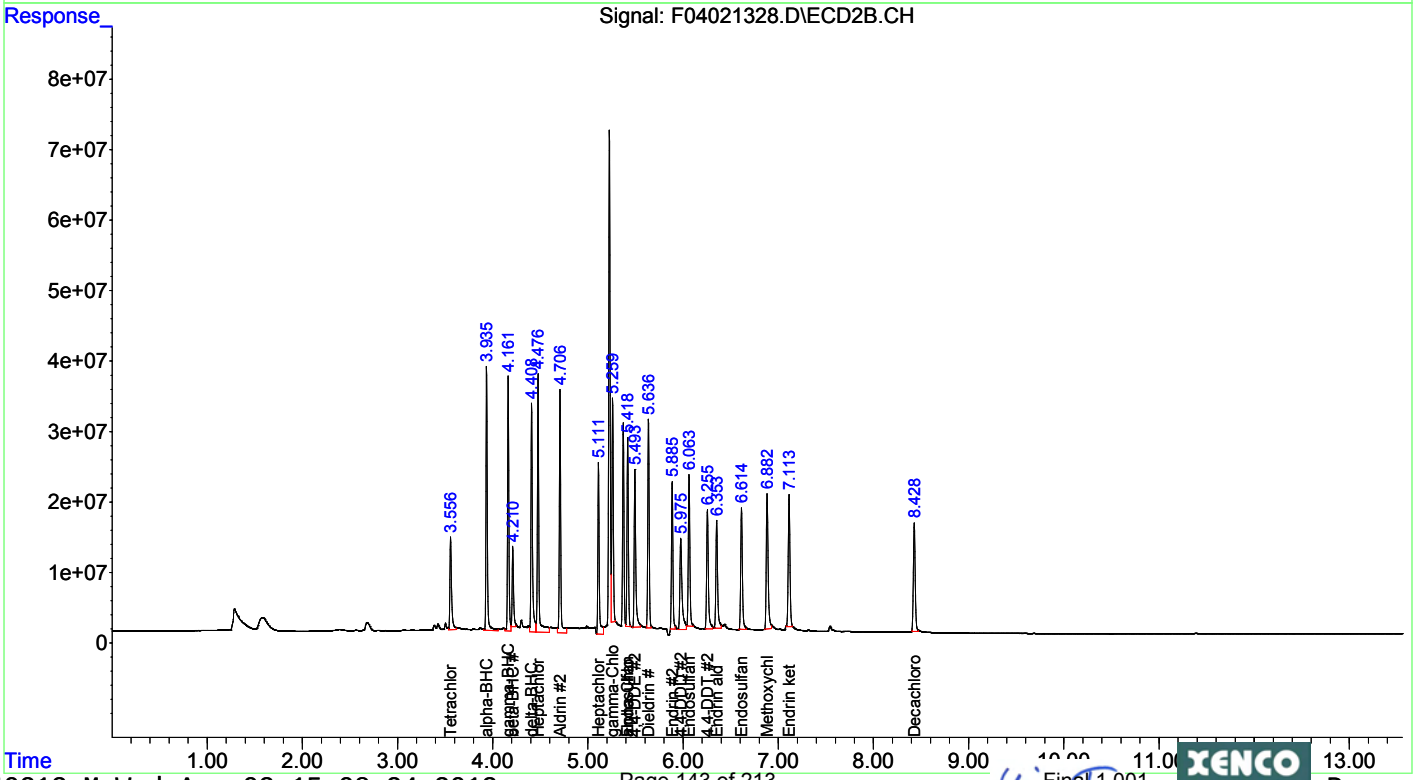
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021328.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 2:03
Operator : NT
Sample : 636005-1-BKS
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:34:34 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021355.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 9:56
Operator : NT
Sample : 636006-1-BKS
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:53:09 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.370	3.557	15607957	165.4E6	35.405	40.495
	Spiked Amount 50.000	Range 30 - 50		Recovery =		70.81%#	80.99%#
22) S	Decachlor...	7.555	8.429	26652427	205.4E6	56.685	56.047m
	Spiked Amount 50.000			Recovery =		113.37%	112.09%
	Target Compounds						
2) T	alpha-BHC	3.699	3.935	31613135	359.8E6	43.363	53.270
3) T	beta-BHC	3.948	4.210	12531566	139.4E6	52.971	58.968
4) T	gamma-BHC...	3.892	4.162	30485011	335.1E6	48.478	50.628
5) T	delta-BHC	4.063	4.408	28305157	332.0E6	54.147	52.707
6) T	Heptachlor	4.193	4.476	32242976	360.9E6	48.225	50.997
7) T	Aldrin	4.389	4.707	31668100	317.1E6	42.329	49.527
8) T	Heptachlo...	4.783	5.110	30345392	298.4E6	49.961	51.146
9) T	Endosulfan I	5.063	5.418	36441724	287.5E6	52.738	53.472
10) T	gamma-Chl...	4.872	5.260	31520482	317.9E6	51.455	49.427
11) T	alpha-Chl...	4.966	5.418	29573615	287.5E6	51.152	53.472
12) T	4,4-DDE	5.019	5.495	18870223	283.2E6	41.581	52.553 #
13) T	Dieldrin	5.241	5.636	31620528	329.5E6	50.905	53.699
14) T	Endrin	5.418	5.886	24291444	242.0E6	47.983	51.188
15) T	4,4-DDD	5.472	5.979	18127368	204.3E6	44.704	55.806
16) T	Endosulfa...	5.592	6.063	28223596	296.1E6	53.090	57.375
17) T	Endrin al...	5.924	6.353	22179826	221.8E6	52.830	54.325
18) T	4,4-DDT	5.686	6.257	23675524	221.4E6	52.908	51.762
19) T	Endosulfa...	6.294	6.614	23680735	230.3E6	57.267	56.703
20) T	Methoxychlor	6.102	6.884	32534947	287.4E6	151.657	161.288
21) T	Endrin ke...	6.555	7.114	30429800	269.5E6	55.149	59.756
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

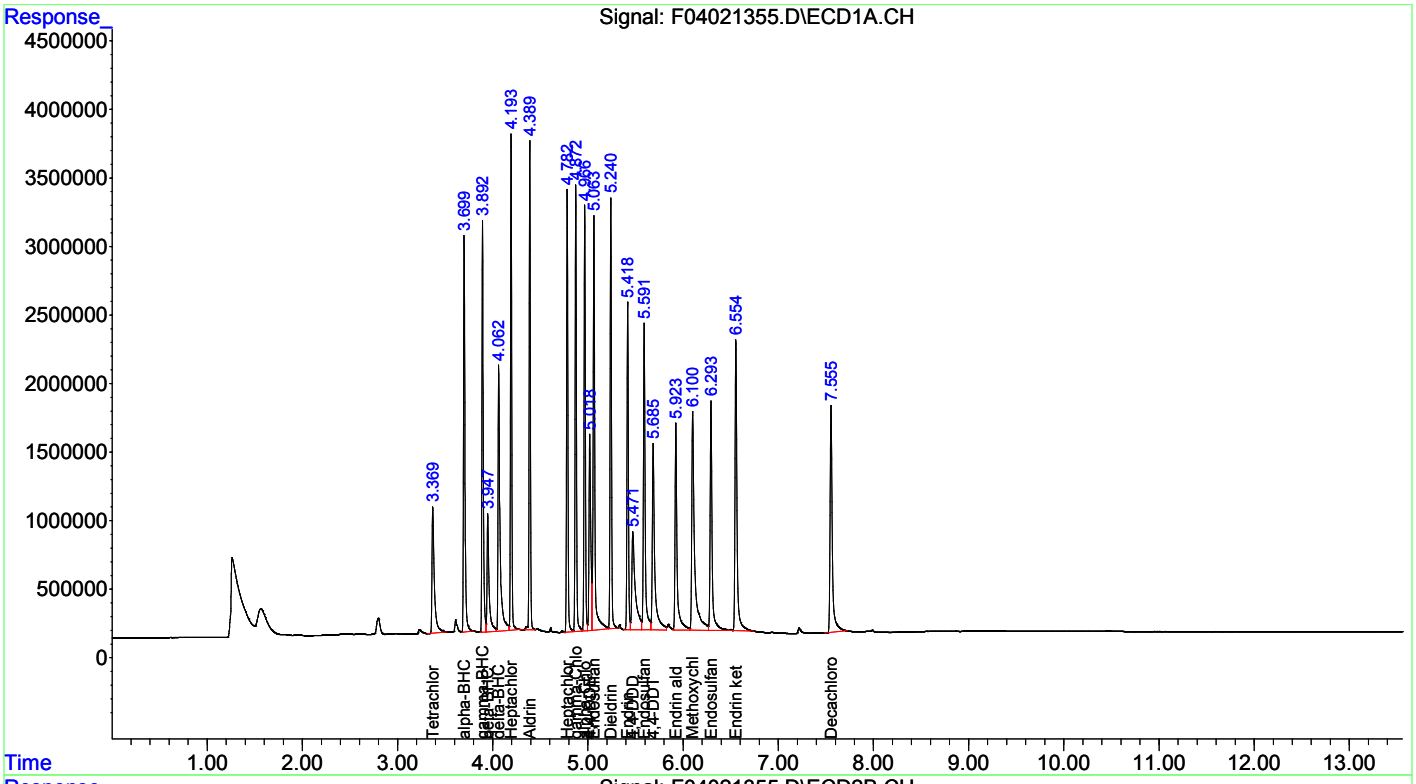
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

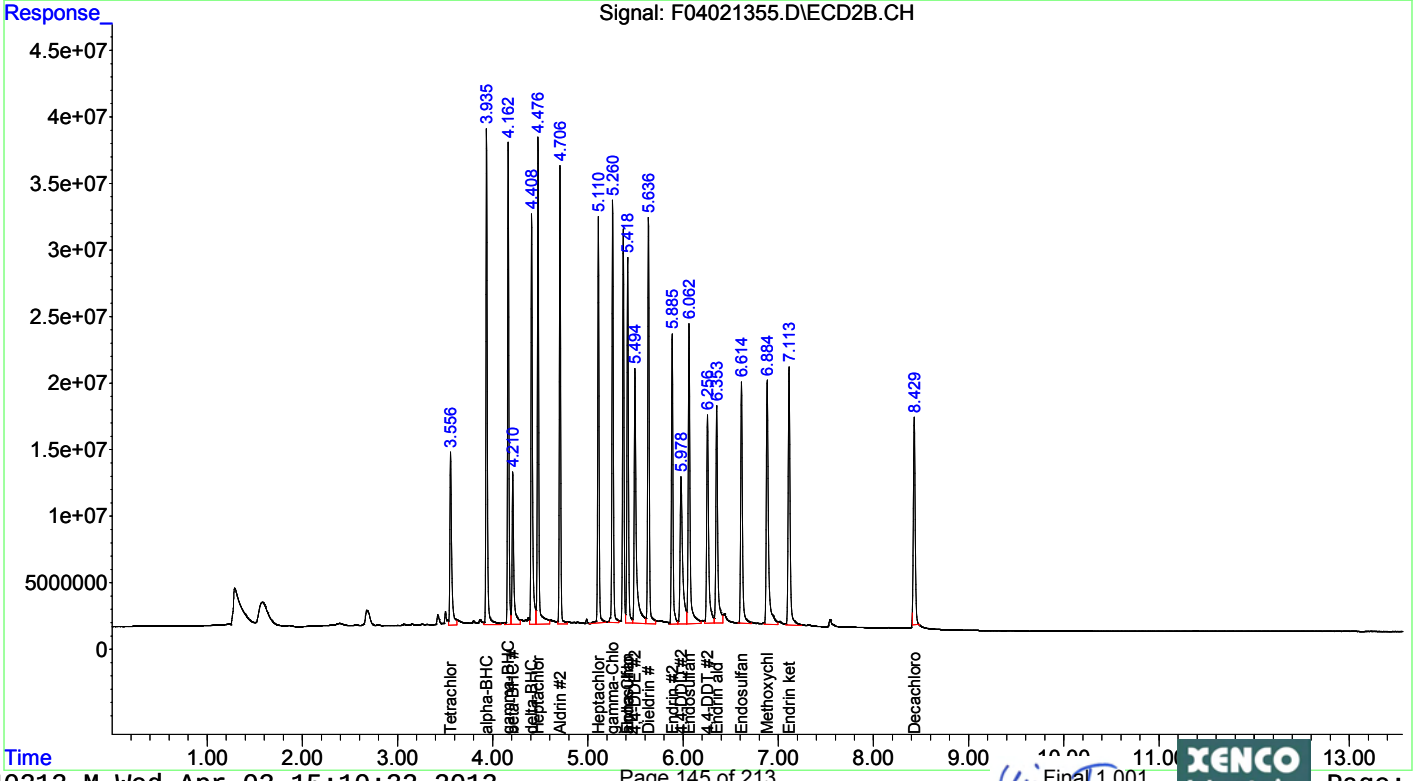
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021355.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Apr 2013 9:56
Operator : NT
Sample : 636006-1-BKS
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 11:53:09 2013
Quant Method : C:\msdchem\1\METHODS\QUANT\PE040213.M
Quant Title : EPA: SW8081B/608 PESTICIDES (A-125)
QLast Update : Wed Apr 03 11:26:23 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





PEM - ENDRIN/DDT BREAKDOWN REPORT

Instrument Name: AG-GCF
Sample Name: PEM
Data File Name: F11011201.D
Operator: NT
Date Acquired: 11/1/2012 12:03
Acq. Method File: PEST2010.M

Name	Ret Time	Amount (ug/l)	Target Response
4,4-DDE	5.03	0.55	278436.547
Endrin	5.44	40.62	21609163.21
4,4-DDD	5.48	2.63	1105529.071
Endrin aldehyde	5.95	0.78	329367.651
4,4-DDT	5.70	79.80	33809691.25
Endrin ketone	6.58	1.32	737490.139

Name	Ret Time	Amount (ug/L)	Target Response
4,4-DDE #2	5.53	0.60	2119835.159
Endrin #2	5.93	42.32	134574372.6
4,4-DDD #2	6.01	3.94	10127044.9
Endrin aldehyde #2	6.40	1.64	4175320.822
4,4-DDT #2	6.30	74.20	190462895.5
Endrin ketone #2	7.16	1.26	3640631.766

***Endrin % Breakdown**
Col. 1- RtxCLPesticides

$$\frac{\text{Endrin Aldehyde+Endrin Ketone}}{\text{Endrin+Endrin Aldehyde+Endrin Ketone}} \times 100 = \textbf{4.70\%}$$

***DDT % Breakdown**
Col. 1- RtxCLPesticides

$$\frac{\text{4,4-DDE+4,4-DDD}}{\text{4,4-DDT+4,4-DDD+4,4-DDE}} \times 100 = \textbf{3.93\%}$$

***Endrin % Breakdown**
Col. 1- RtxCLPesticidesII

$$\frac{\text{Endrin Aldehyde+Endrin Ketone}}{\text{Endrin+Endrin Aldehyde+Endrin Ketone}} \times 100 = \textbf{5.49\%}$$

Col. 1- RtxCLPesticidesII

$$\frac{\text{4,4-DDE+4,4-DDD}}{\text{4,4-DDT+4,4-DDD+4,4-DDE}} \times 100 = \textbf{6.04\%}$$

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011202.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 12:20
Operator : NT
Sample : INDC-1
Misc : ECD12056
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 15:50:19 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Thu Nov 01 15:46:37 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.376	3.575	2256887	13589080	<MDL	<MDL #
	Spiked Amount 50.000	Range 30 - 50		Recovery =		0.00%#	0.00%#
22) S	Decachlor...	7.583	8.481	4758073	23760626	9.907	9.800
	Spiked Amount 50.000			Recovery =		19.81%	19.60%
	Target Compounds						
2) T	alpha-BHC	3.710	3.958	3055446	19573974	<MDL	<MDL #
3) T	beta-BHC	3.960	4.236	1026091	7264350	<MDL m	<MDL #
4) T	gamma-BHC...	3.905	4.187	2468816	20784563	<MDL	<MDL #
5) T	delta-BHC	4.076	4.435	2263390	19237150	<MDL	<MDL #
6) T	Heptachlor	4.208	4.505	2933121	24524578	<MDL	<MDL #
7) T	Aldrin	4.405	4.739	3049199	22133926	<MDL	5.068 #
8) T	Heptachlo...	4.801	5.145	2823283	16746082	<MDL	<MDL #
9) T	Endosulfan I	5.084	5.456	2957841	15218787	<MDL	<MDL #
10) T	gamma-Chl...	4.892	5.296	2736116	16885250	<MDL	<MDL #
11) T	alpha-Chl...	4.986	5.456	2703057	15218787	<MDL	<MDL #
12) T	4,4-DDE	5.035	5.530	4220721	29938733	8.289	8.329
13) T	Dieldrin	5.262	5.676	5193218	34087225	8.110	8.557
14) T	Endrin	5.441	5.928	4419056	26702090	8.326	8.269
15) T	4,4-DDD	5.490	6.016	3213731	21262735	7.674	8.226
16) T	Endosulfa...	5.615	6.107	4150887	27379644	7.699	8.387
17) T	Endrin al...	5.950	6.400	3608783	22733587	8.474	8.787
18) T	4,4-DDT	5.708	6.299	2882767	18725521	6.258	7.057
19) T	Endosulfa...	6.321	6.662	3338554	20804876	7.230	7.809
20) T	Methoxychlor	6.123	6.930	8205420	48223955	37.359	40.531
21) T	Endrin ke...	6.584	7.166	4458190	23232051	8.040	8.068
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

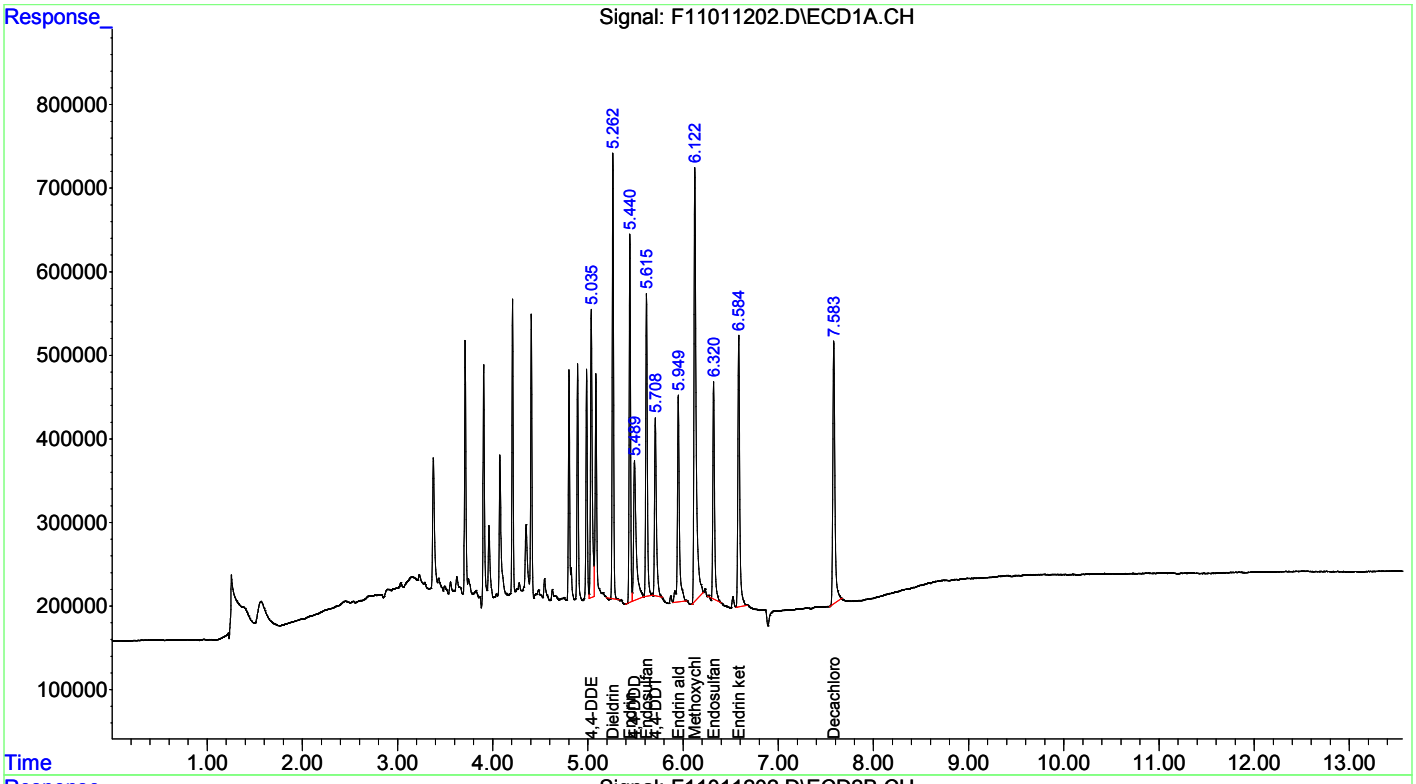
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

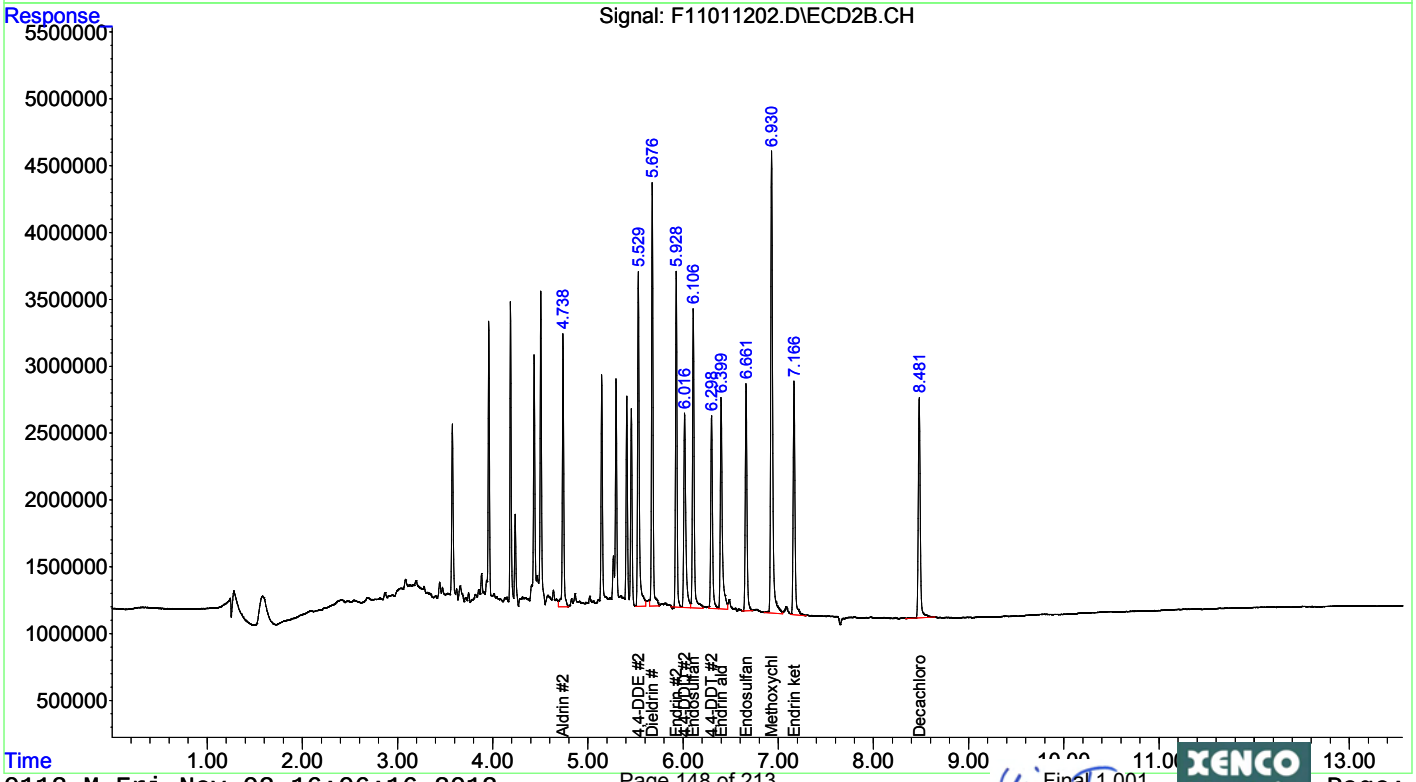
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011202.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 12:20
Operator : NT
Sample : INDC-1
Misc : ECD12056
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 15:50:19 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Thu Nov 01 15:46:37 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32



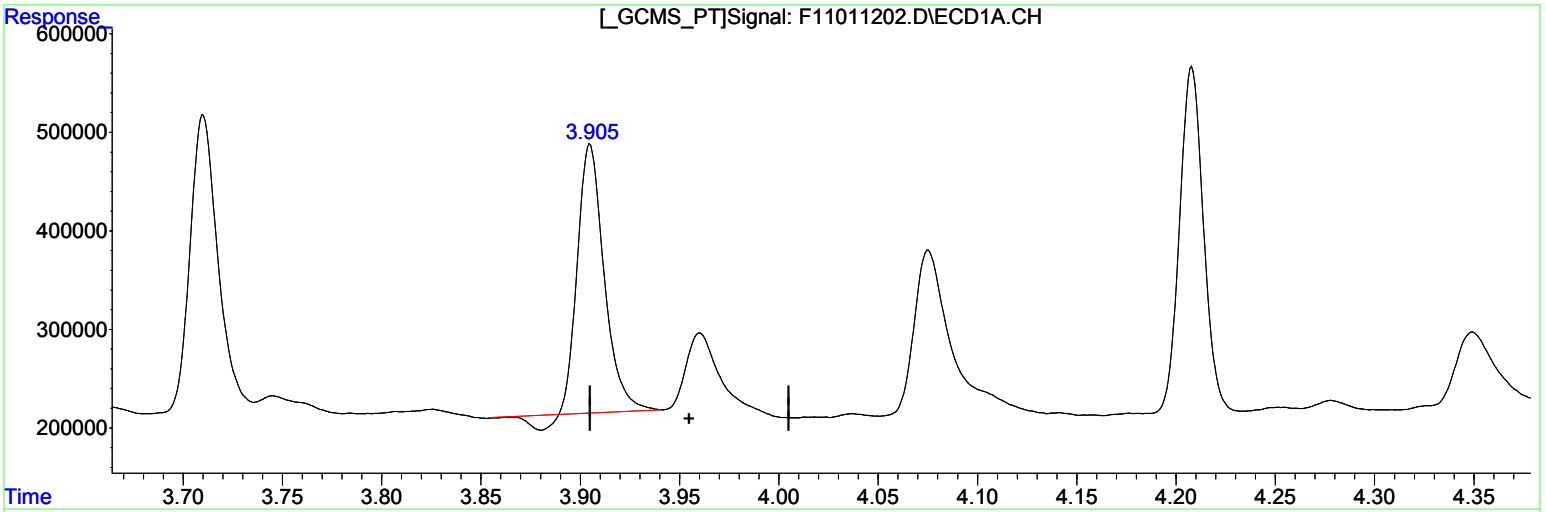


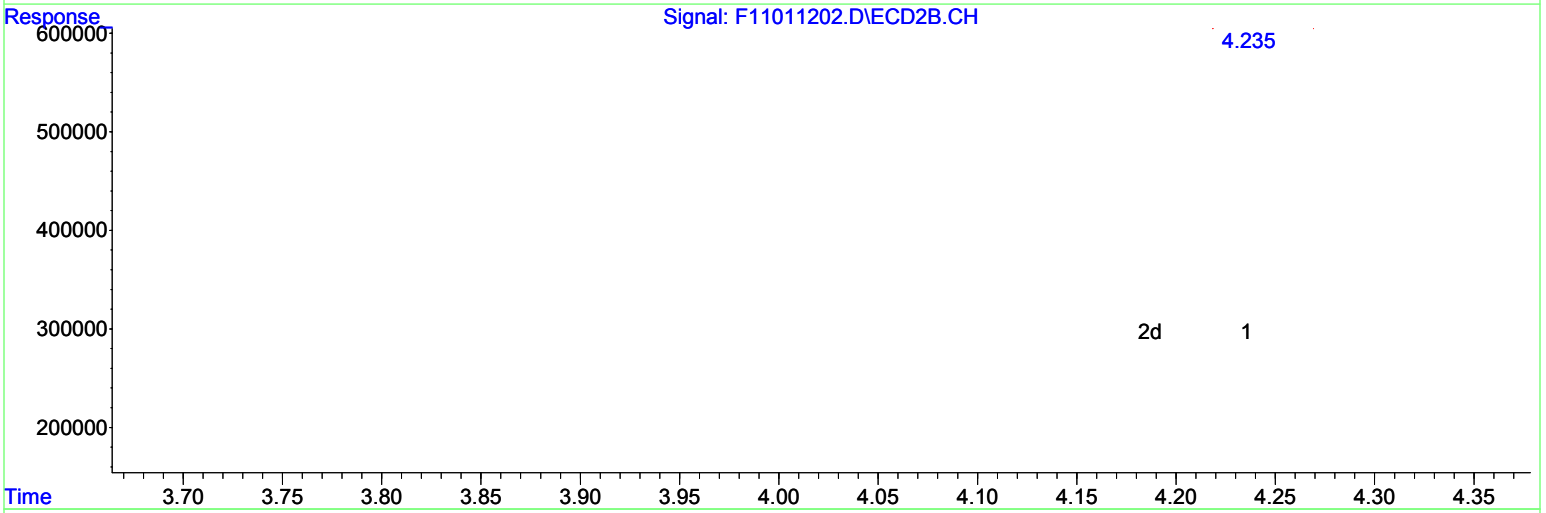
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011202.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Nov 2012 12:20
Operator : NT
Sample   : INDC-1
Misc   : ECD12056
ALS Vial : 2   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 15:46:51 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Thu Nov 01 15:46:37 2012
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

Volume Inj.   : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32   Signal #2 Info : 0.32





QEdit

(3) beta-BHC (T)

3.905min 10.083ug/l

response 2468816

(3) beta-BHC #2 (T)

4.236min 4.581ug/l

response 7264350

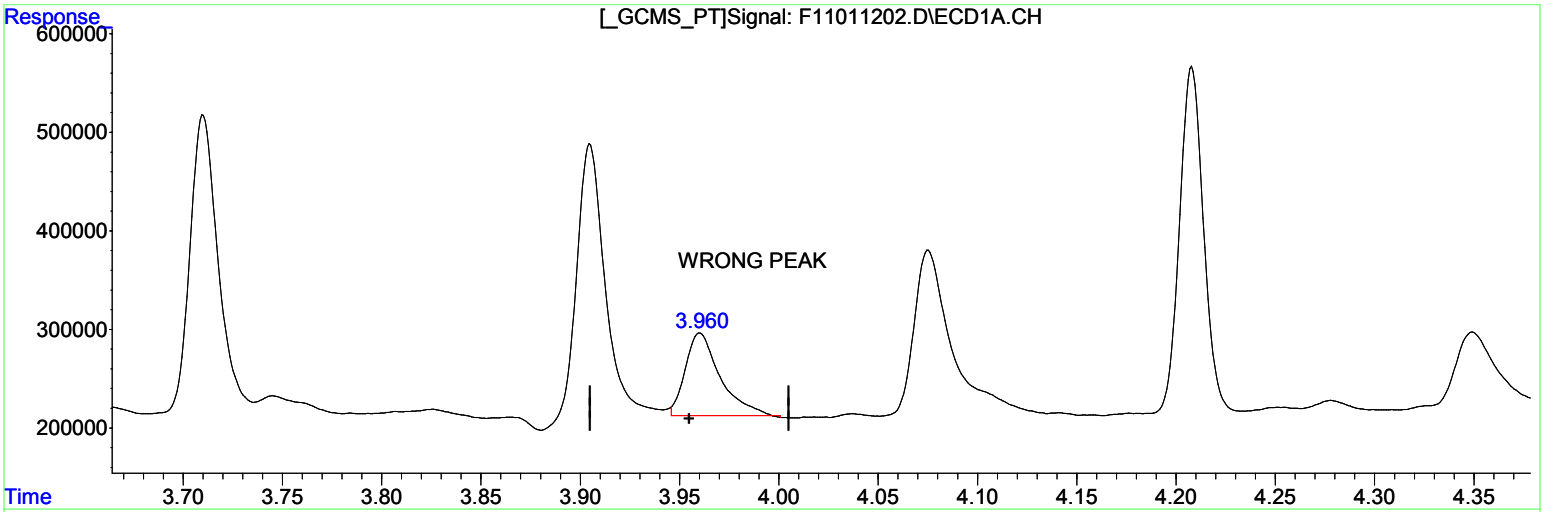
(+) = Expected Retention Time

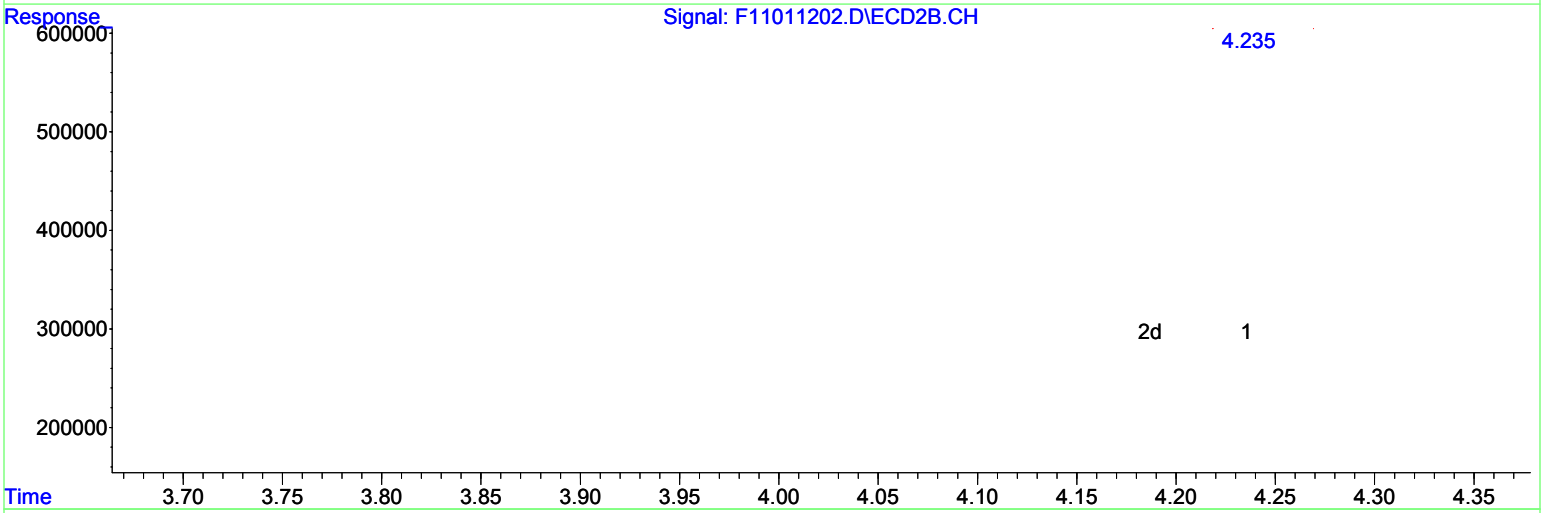
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011202.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 12:20
Operator : NT
Sample : INDC-1
Misc : ECD12056
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 15:46:51 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Thu Nov 01 15:46:37 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





QEdit

(3) beta-BHC (T)

3.960min 4.191ug/l m

response 1026091

(3) beta-BHC #2 (T)

4.236min 4.581ug/l

response 7264350

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011203.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 12:38
Operator : NT
Sample : INDC-2
Misc : ECD12057
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 15:46:28 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Thu Nov 01 15:46:15 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.376	3.575	4284499	24967768	9.313	8.691
	Spiked Amount	50.000	Range 30 - 50		Recovery =	18.63%#	17.38%#
22) S	Decachlor...	7.582	8.481	8724366	42802081	18.164	17.537
	Spiked Amount	50.000			Recovery =	36.33%	35.07%
	Target Compounds						
2) T	alpha-BHC	3.710	3.958	6849045	45044378	9.247	9.361
3) T	beta-BHC	3.960	4.235	2346029	14353768	9.472	8.886
4) T	gamma-BHC...	3.905	4.187	5908342	43907642	8.924	9.146
5) T	delta-BHC	4.075	4.435	4915128	40543763	8.914	8.814
6) T	Heptachlor	4.208	4.505	6472907	47848288	9.334	9.313
7) T	Aldrin	4.405	4.738	6599406	41499318	9.604	9.252
8) T	Heptachlo...	4.801	5.145	6081083	38156803	9.746	9.427
9) T	Endosulfan I	5.084	5.456	6931297	33481515	10.372	9.117
10) T	gamma-Chl...	4.891	5.296	6029906	37735057	9.568	9.139
11) T	alpha-Chl...	4.986	5.456	5816810	33481515	9.685	9.117
12) T	4,4-DDE	5.035	5.529	9488937	65932316	18.559	17.708
13) T	Dieldrin	5.262	5.676	12077449	74898159	18.856	18.336
14) T	Endrin	5.441	5.928	9981133	60897591	18.791	18.534
15) T	4,4-DDD	5.488	6.015	7664264	47538968	18.315	18.207
16) T	Endosulfa...	5.615	6.106	10384594	60424738	19.322	18.237
17) T	Endrin al...	5.949	6.398	7842231	47814784	18.435	18.175
18) T	4,4-DDT	5.708	6.298	7897259	44288754	16.937	16.144
19) T	Endosulfa...	6.320	6.661	7739883	47109626	16.842	17.498
20) T	Methoxychlor	6.121	6.928	19607467	109.5E6	88.108	89.584
21) T	Endrin ke...	6.583	7.165	10207461	53946481	18.645	18.763
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

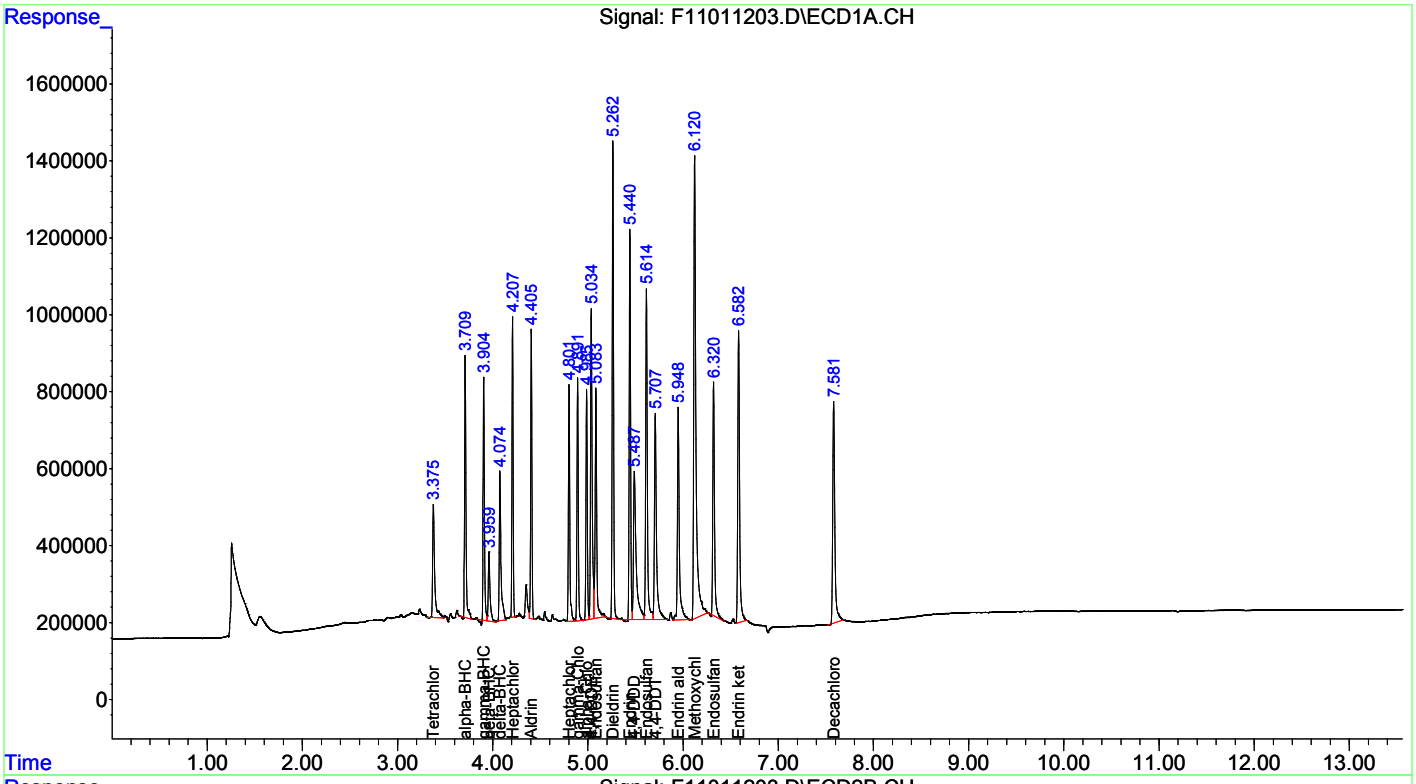
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

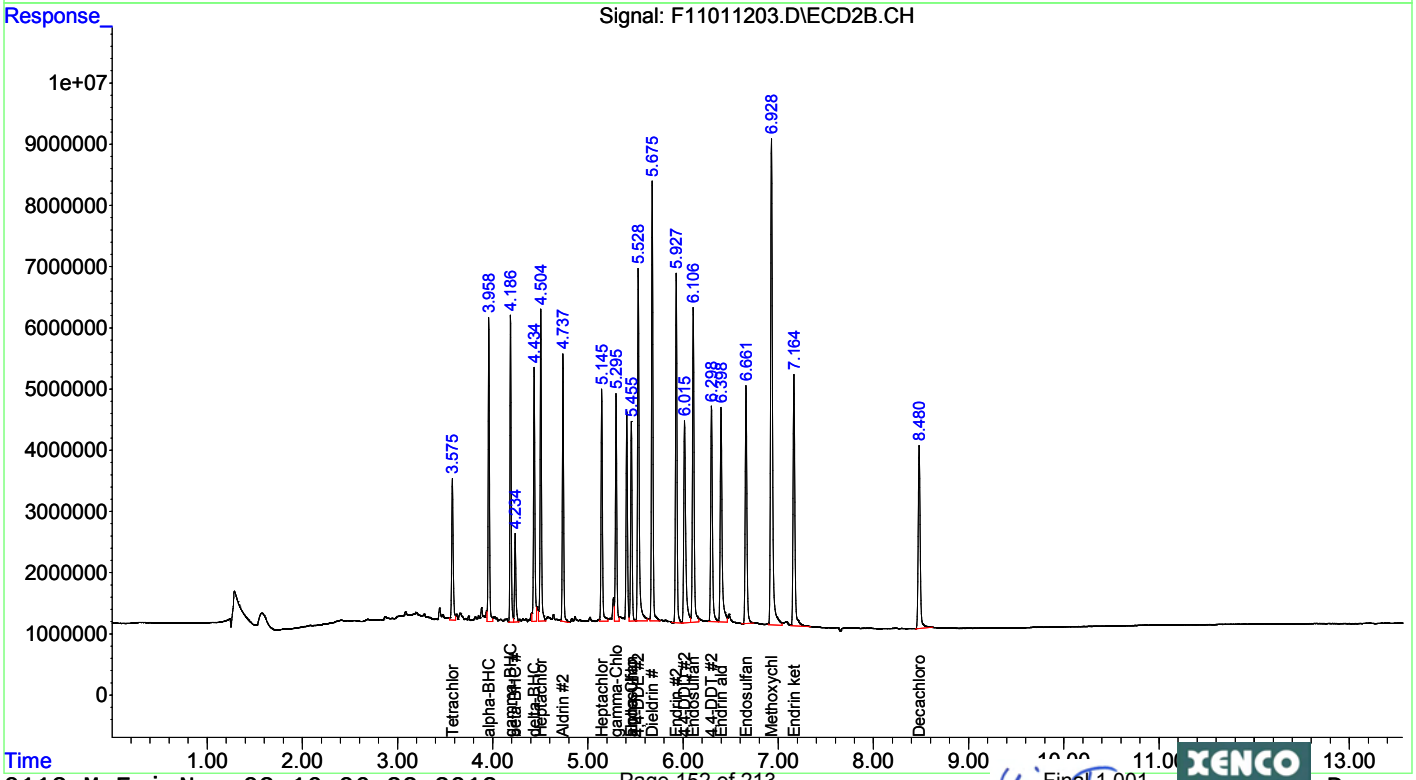
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011203.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 12:38
Operator : NT
Sample : INDC-2
Misc : ECD12057
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 15:46:28 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Thu Nov 01 15:46:15 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011204.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 12:56
Operator : NT
Sample : INDC-3
Misc : ECD12058
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 15:46:04 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Thu Nov 01 15:45:49 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.375	3.575	9386101	54081167	20.495	18.675
	Spiked Amount 50.000	Range 30 - 50		Recovery =		40.99%	37.35%
22) S	Decachlor...	7.582	8.481	19485130	96792434	40.910	39.820
	Spiked Amount 50.000			Recovery =		81.82%	79.64%
	Target Compounds						
2) T	alpha-BHC	3.710	3.958	14405617	94615211	19.422	19.531
3) T	beta-BHC	3.958	4.234	4806143	30723370	19.266	18.712
4) T	gamma-BHC...	3.905	4.187	13026837	91285808	19.588	18.665
5) T	delta-BHC	4.074	4.434	10752842	87931431	19.438	18.894
6) T	Heptachlor	4.208	4.504	13776032	96749316	19.825	18.552
7) T	Aldrin	4.405	4.738	13633656	85206153	19.862	18.648
8) T	Heptachlo...	4.801	5.144	12532175	76512750	20.124	18.445
9) T	Endosulfan I	5.083	5.455	13401389	69128029	20.120	18.377
10) T	gamma-Chl...	4.891	5.295	12581051	77343933	19.991	18.268
11) T	alpha-Chl...	4.986	5.455	11982627	69128029	19.986	18.377
12) T	4,4-DDE	5.034	5.528	20160710	138.6E6	39.318	36.245
13) T	Dieldrin	5.262	5.676	25950535	155.5E6	40.629	37.274
14) T	Endrin	5.440	5.927	21403323	126.4E6	40.358	37.809
15) T	4,4-DDD	5.486	6.014	16522028	104.0E6	39.513	39.270
16) T	Endosulfa...	5.614	6.106	21796287	129.9E6	40.715	38.607
17) T	Endrin al...	5.949	6.398	17092430	102.1E6	40.390	38.347
18) T	4,4-DDT	5.707	6.297	17731687	101.7E6	37.506	35.899
19) T	Endosulfa...	6.320	6.661	18602909	100.7E6	40.963	36.989
20) T	Methoxychlor	6.120	6.928	44775831	232.6E6	199.676	186.095
21) T	Endrin ke...	6.582	7.164	22474210	114.5E6	41.695	39.960
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

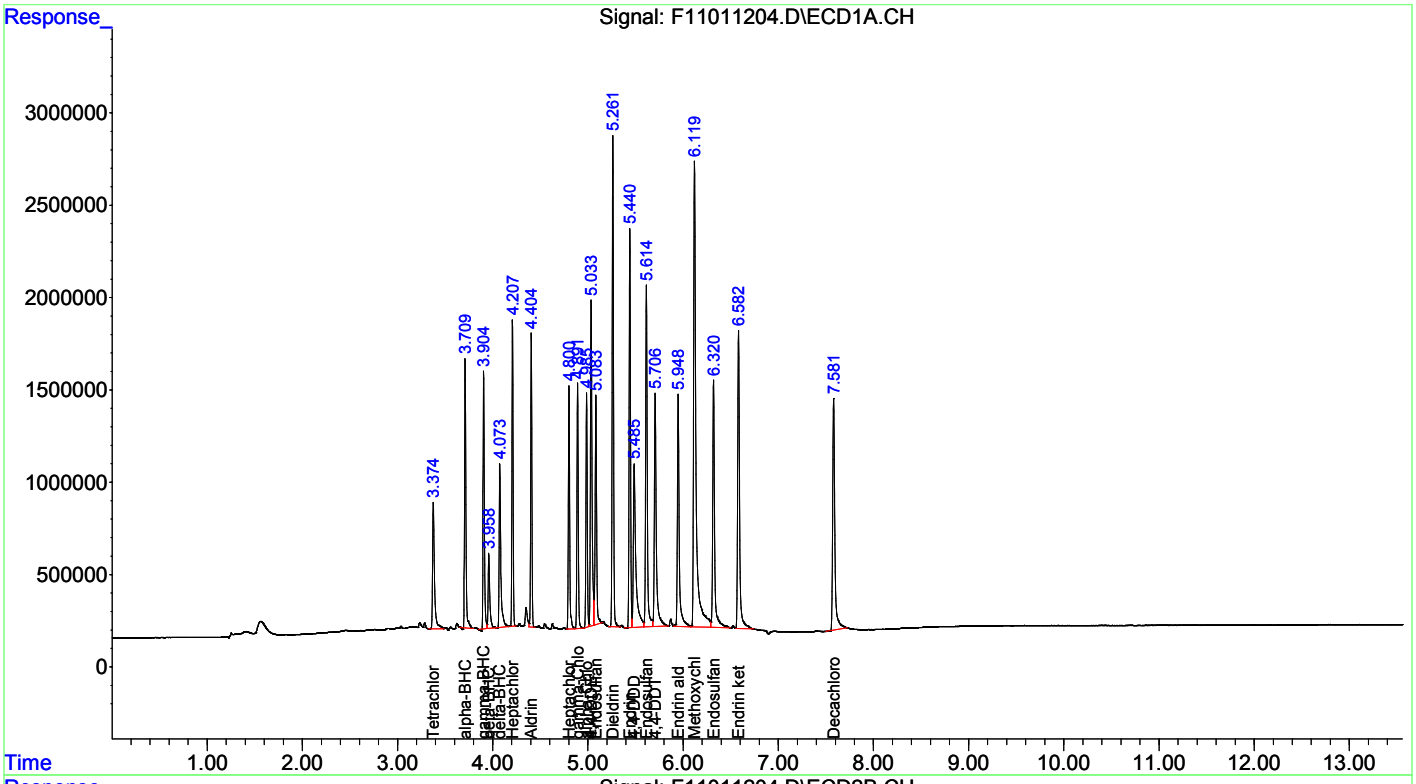
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

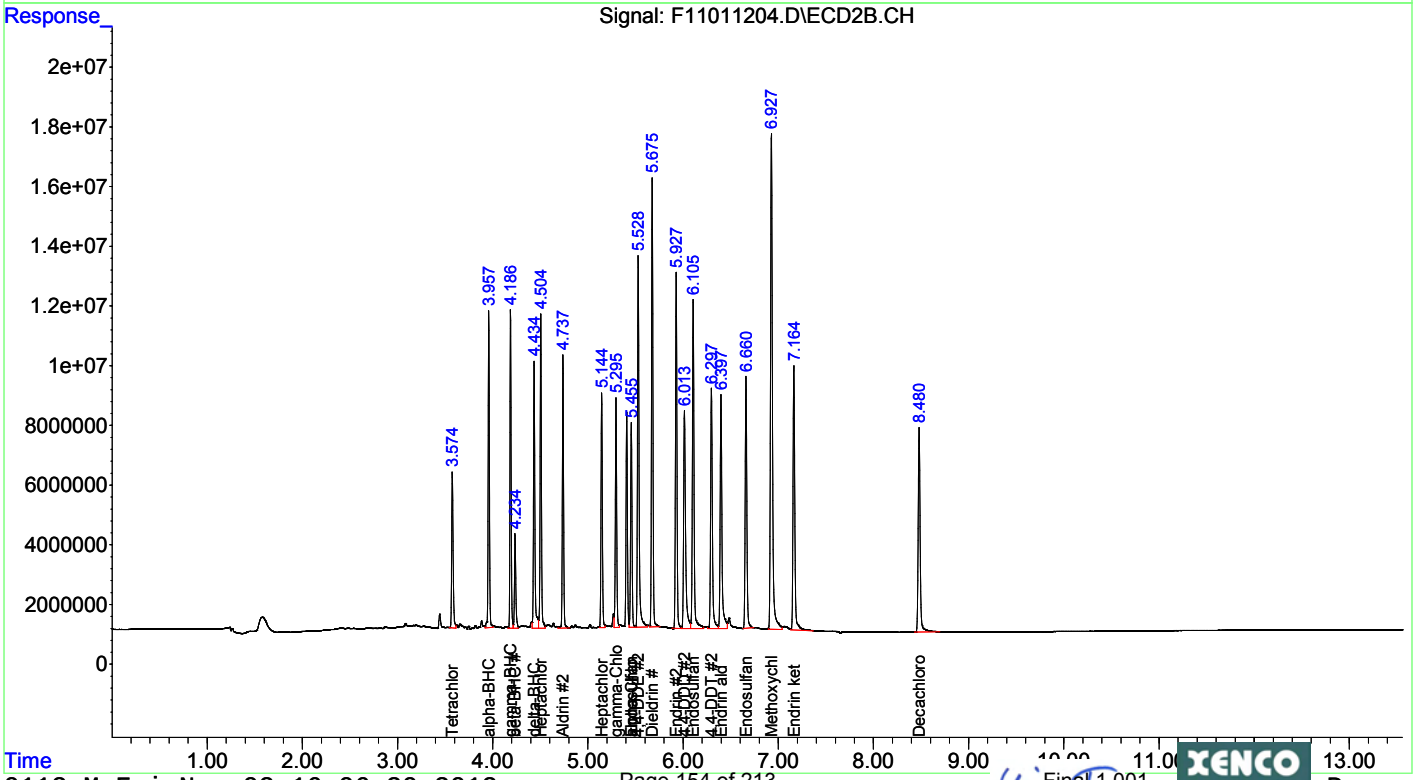
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011204.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 12:56
Operator : NT
Sample : INDC-3
Misc : ECD12058
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 15:46:04 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Thu Nov 01 15:45:49 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011205.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 13:13
Operator : NT
Sample : INDC-4
Misc : ECD12059
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 15:45:24 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Thu Nov 01 15:45:09 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.375	3.575	19385630	115.0E6	42.288	39.156
	Spiked Amount	50.000	Range 30 - 50	Recovery	=	84.58%#	78.31%#
22) S	Decachlor...	7.581	8.480	39528908	197.8E6	83.400	81.135
	Spiked Amount	50.000		Recovery	=	166.80%	162.27%
	Target Compounds						
2) T	alpha-BHC	3.710	3.958	31187739	200.5E6	42.233	40.987
3) T	beta-BHC	3.957	4.234	9748352	62072224	39.047	37.296
4) T	gamma-BHC...	3.904	4.186	27501588	193.0E6	41.316	38.912
5) T	delta-BHC	4.073	4.434	22375617	181.3E6	40.319	38.540
6) T	Heptachlor	4.208	4.504	29686875	197.9E6	42.914	37.497
7) T	Aldrin	4.405	4.737	29220736	174.0E6	42.830	37.637
8) T	Heptachlo...	4.801	5.145	26030243	162.3E6	42.025	38.587
9) T	Endosulfan I	5.083	5.455	28025203	150.8E6	42.396	39.589
10) T	gamma-Chl...	4.892	5.295	26712351	166.6E6	42.605	38.564
11) T	alpha-Chl...	4.986	5.455	25165445	150.8E6	42.135	39.589
12) T	4,4-DDE	5.033	5.528	43187766	305.2E6	84.092	78.341
13) T	Dieldrin	5.262	5.676	55125302	339.2E6	86.925	80.319
14) T	Endrin	5.440	5.928	46197771	273.9E6	87.792	80.994
15) T	4,4-DDD	5.484	6.013	36712716	209.9E6	88.247	77.945
16) T	Endosulfa...	5.614	6.106	46772250	279.6E6	87.997	82.235
17) T	Endrin al...	5.947	6.398	34130310	211.8E6	80.716	78.636
18) T	4,4-DDT	5.705	6.297	39695632	226.9E6	83.021	78.020
19) T	Endosulfa...	6.319	6.660	39529746	225.7E6	87.736	81.933
20) T	Methoxychlor	6.116	6.926	93899072	501.6E6	417.212	395.583
21) T	Endrin ke...	6.582	7.164	47890779	245.3E6	90.593	85.934
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000

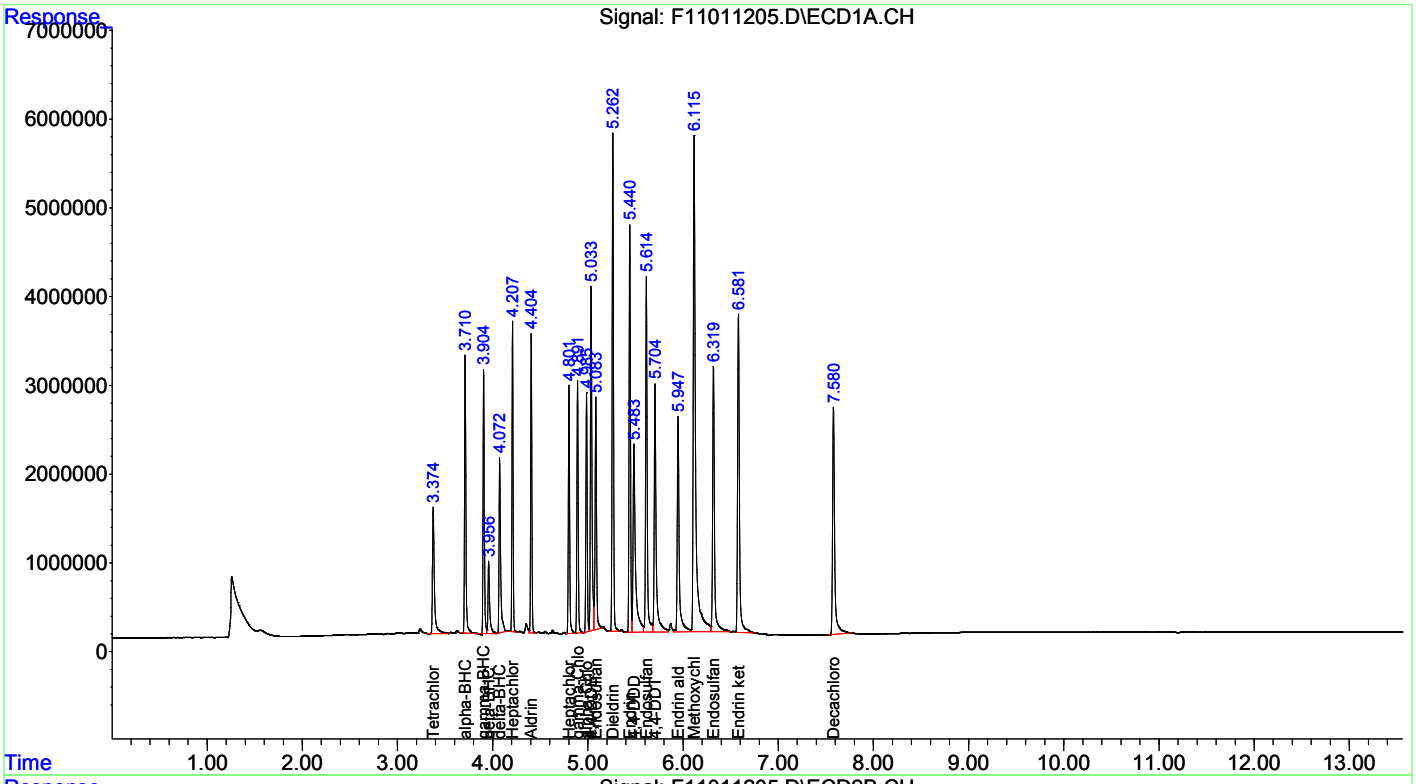
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

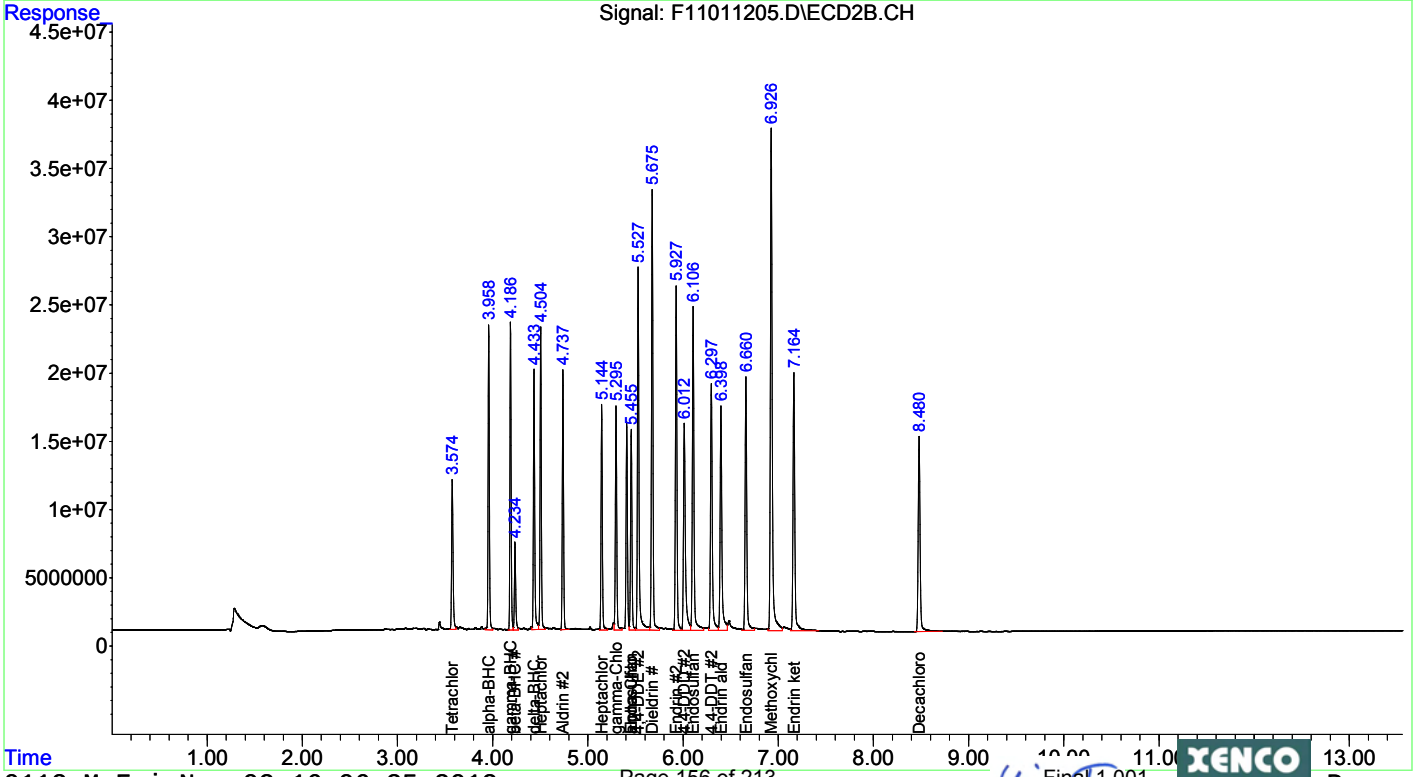
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011205.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 13:13
Operator : NT
Sample : INDC-4
Misc : ECD12059
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 15:45:24 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Thu Nov 01 15:45:09 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011206.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 13:31
Operator : NT
Sample : INDC-5
Misc : ECD12060
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 15:52:06 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Thu Nov 01 15:44:40 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.374	3.574	38582443	218.8E6	84.173	72.194
	Spiked Amount	50.000	Range	30 - 50	Recovery	= 168.35%#	144.39%#
22) S	Decachlor...	7.581	8.479	78401632	399.6E6	165.496	162.543
	Spiked Amount	50.000			Recovery	= 330.99%	325.09%
	Target Compounds						
2) T	alpha-BHC	3.710	3.958	64638607	406.8E6	88.093	81.709
3) T	beta-BHC	3.956	4.233	21110187	130.3E6	84.652	76.616
4) T	gamma-BHC...	3.904	4.186	57866030	396.7E6	87.055	78.443
5) T	delta-BHC	4.072	4.433	51042286	370.6E6	92.029	77.345
6) T	Heptachlor	4.207	4.504	59449258	397.2E6	86.027	74.093
7) T	Aldrin	4.405	4.737	57940433	349.3E6	85.090	74.040
8) T	Heptachlo...	4.801	5.145	51714185	319.2E6	83.788	74.288
9) T	Endosulfan I	5.083	5.456	54964223	294.2E6	83.543	75.724
10) T	gamma-Chl...	4.891	5.295	53301791	327.5E6	84.954	73.822
11) T	alpha-Chl...	4.985	5.456	50041736	294.2E6	83.710	75.724
12) T	4,4-DDE	5.032	5.528	86723574	607.8E6	167.595	151.906
13) T	Dieldrin	5.261	5.675	109.2E6	668.9E6	173.047	155.664
14) T	Endrin	5.440	5.927	90687962	537.3E6	173.040	156.164
15) T	4,4-DDD	5.481	6.012	74741847	451.1E6	179.364	164.043
16) T	Endosulfa...	5.613	6.105	93068060	556.8E6	176.112	161.228
17) T	Endrin al...	5.947	6.398	74705109	425.5E6	177.385	155.379
18) T	4,4-DDT	5.704	6.297	73593918	466.1E6	152.189m	155.460
19) T	Endosulfa...	6.319	6.660	86206252	473.7E6	193.195	170.001
20) T	Methoxychlor	6.116	6.926	186.4E6	986.3E6	825.311	765.044
21) T	Endrin ke...	6.581	7.164	99240079	492.5E6	191.455	170.935
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

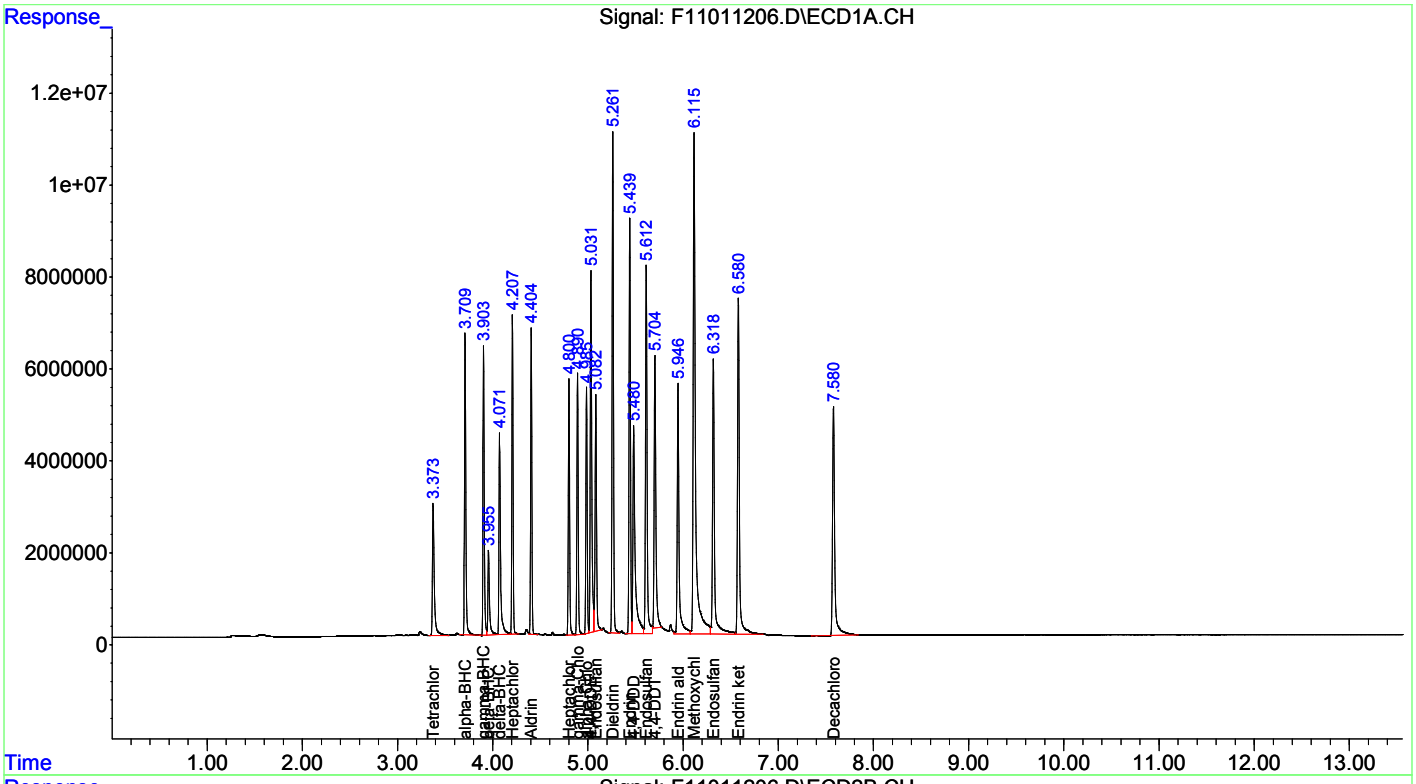
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

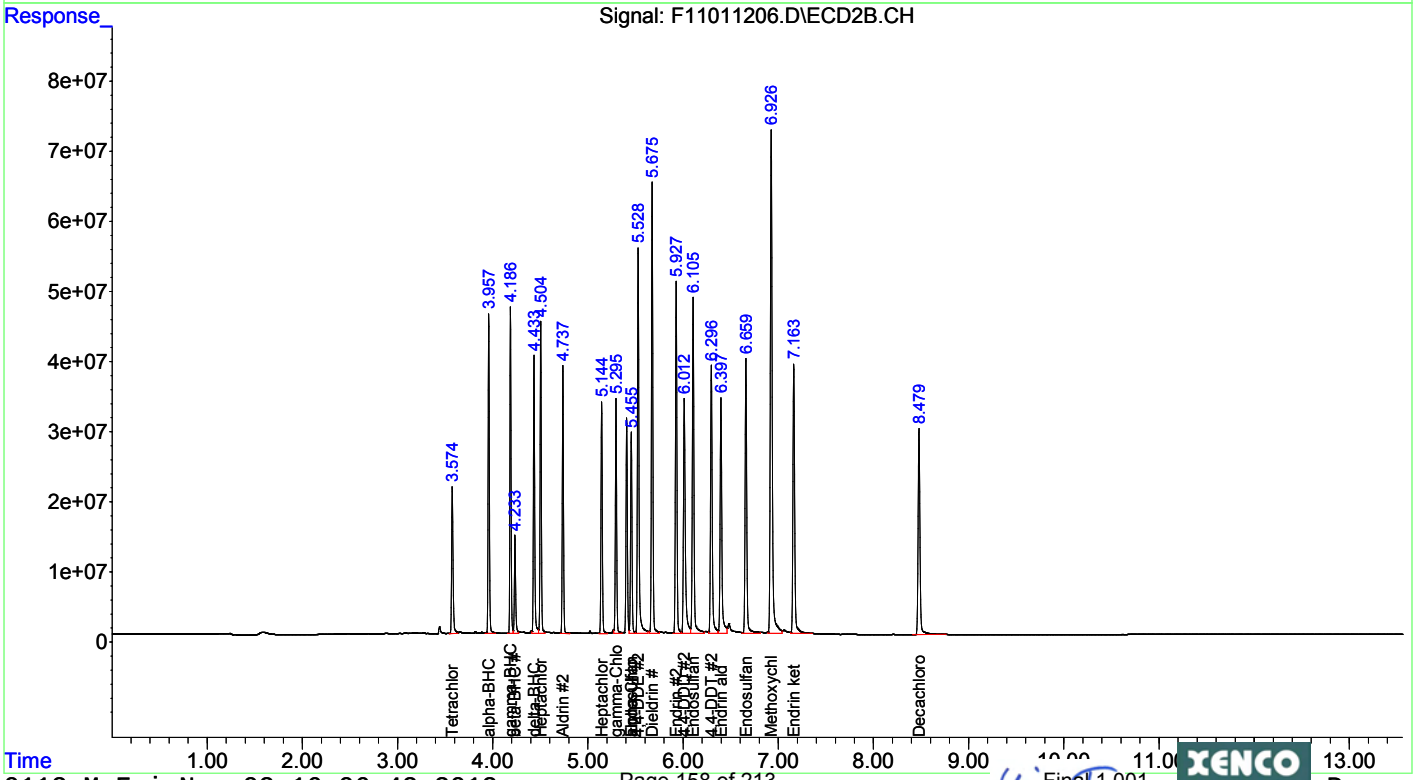
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011206.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 13:31
Operator : NT
Sample : INDC-5
Misc : ECD12060
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 15:52:06 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Thu Nov 01 15:44:40 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32



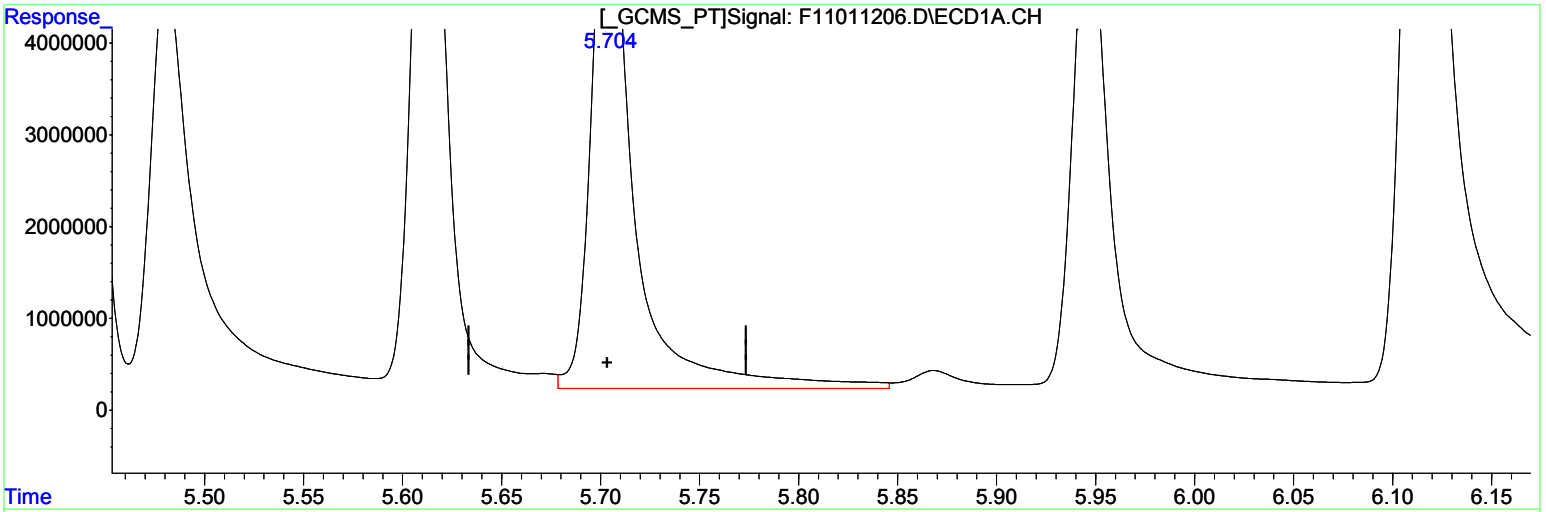


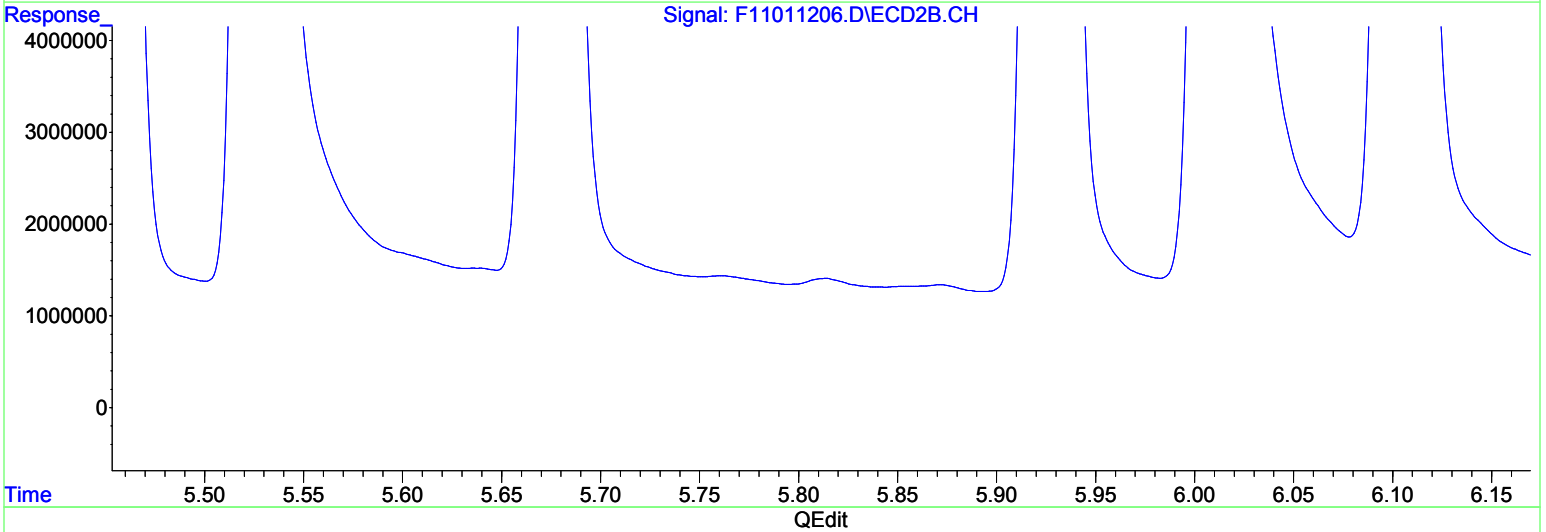
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011206.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Nov 2012 13:31
Operator : NT
Sample   : INDC-5
Misc   : ECD12060
ALS Vial : 6   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 15:44:55 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Thu Nov 01 15:44:40 2012
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

Volume Inj.   : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32   Signal #2 Info : 0.32





QEdit

(18) 4,4-DDT (T)

5.704min 176.369ug/l

response 85286450

(18) 4,4-DDT #2 (T)

6.297min 155.460ug/l

response 466147624

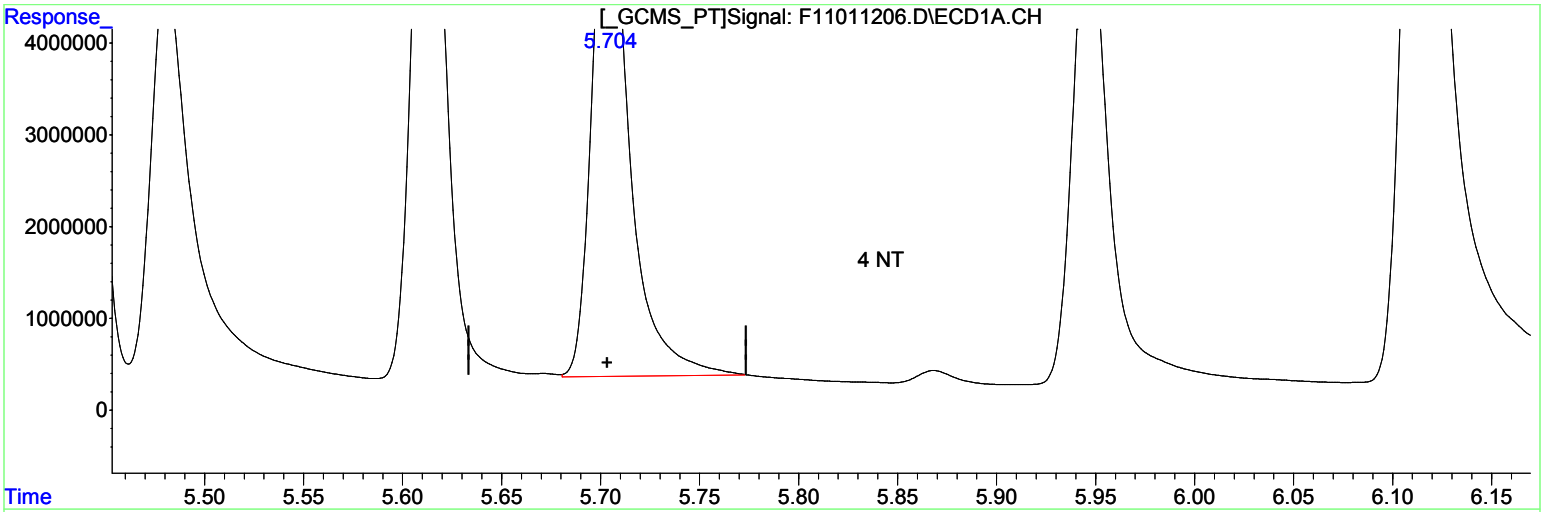
(+) = Expected Retention Time

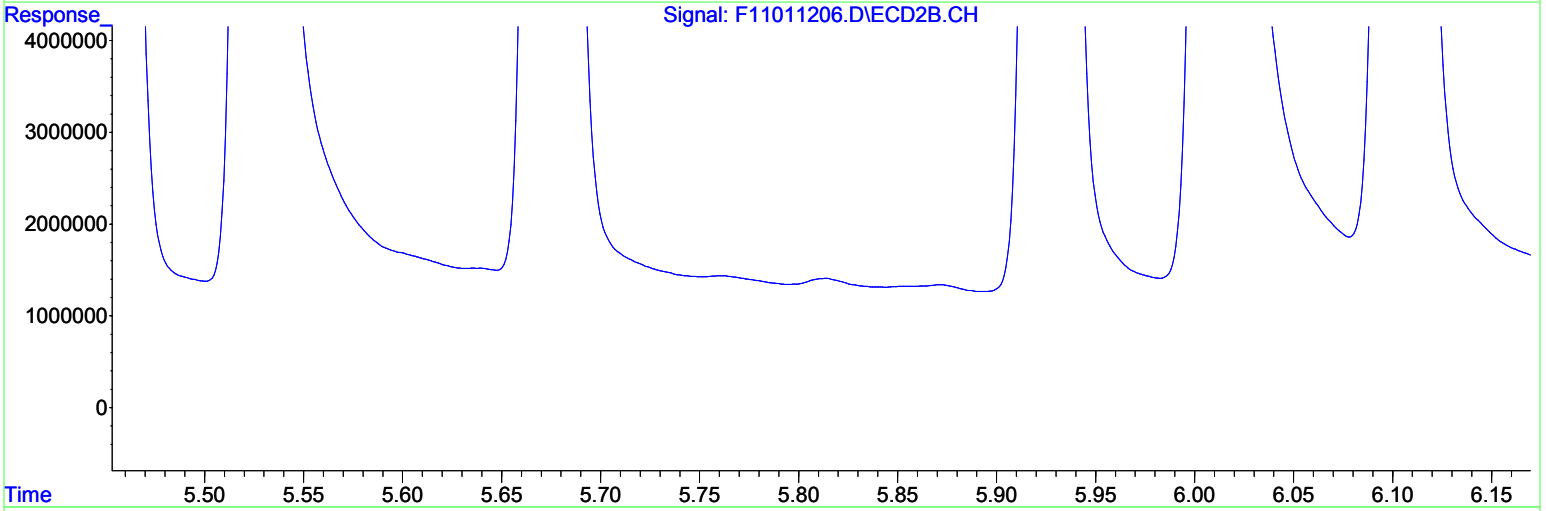
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011206.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Nov 2012 13:31
Operator : NT
Sample   : INDC-5
Misc   : ECD12060
ALS Vial : 6   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 15:44:55 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Thu Nov 01 15:44:40 2012
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

Volume Inj.   : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32   Signal #2 Info : 0.32





QEdit

(18) 4,4-DDT (T)

5.704min 152.189ug/l m

response 73593918

(18) 4,4-DDT #2 (T)

6.297min 155.460ug/l

response 466147624

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011207.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 13:48
Operator : NT
Sample : INDC-6
Misc : ECD12061
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 15:51:23 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Wed Aug 01 14:22:59 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.373	3.573	47511629	292.6E6	103.159	94.762
	Spiked Amount	50.000	Range 30 - 50		Recovery =	206.32%#	189.52%#
22) S	Decachlor...	7.580	8.479	99533028	509.7E6	210.529	205.276
	Spiked Amount	50.000			Recovery =	421.06%	410.55%
	Target Compounds						
2) T	alpha-BHC	3.709	3.957	80458244	515.8E6	109.599	101.953
3) T	beta-BHC	3.955	4.233	26659790	172.5E6	106.182	100.552
4) T	gamma-BHC...	3.903	4.186	72904031	503.2E6	109.374	97.496
5) T	delta-BHC	4.070	4.433	65302271	471.2E6	117.407	96.581
6) T	Heptachlor	4.207	4.504	76231848	505.3E6	110.724	93.090
7) T	Aldrin	4.404	4.737	72492311	443.4E6	106.441	92.731
8) T	Heptachlo...	4.800	5.144	64803733	408.7E6	105.200	93.673
9) T	Endosulfan I	5.082	5.455	73609593	372.5E6	113.741	94.380
10) T	gamma-Chl...	4.890	5.295	67472842	418.2E6	107.380	92.319
11) T	alpha-Chl...	4.985	5.455	63729028	372.5E6	106.544	94.380
12) T	4,4-DDE	5.031	5.527	111.3E6	781.2E6	213.622	191.119
13) T	Dieldrin	5.261	5.675	138.8E6	844.6E6	221.632	193.661
14) T	Endrin	5.439	5.927	114.4E6	683.9E6	219.443	196.073
15) T	4,4-DDD	5.480	6.011	96335570	574.6E6	231.129	205.096
16) T	Endosulfa...	5.612	6.105	117.6E6	713.0E6	224.013	204.111
17) T	Endrin al...	5.946	6.397	94556186	541.7E6	225.562	195.111
18) T	4,4-DDT	5.703	6.296	91908110	604.6E6	189.123m	196.508
19) T	Endosulfa...	6.317	6.659	109.9E6	618.7E6	249.105	219.491
20) T	Methoxychlor	6.114	6.925	234.0E6	1260.4E6	1034.689	965.875
21) T	Endrin ke...	6.580	7.162	125.2E6	662.6E6	246.298	230.776
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

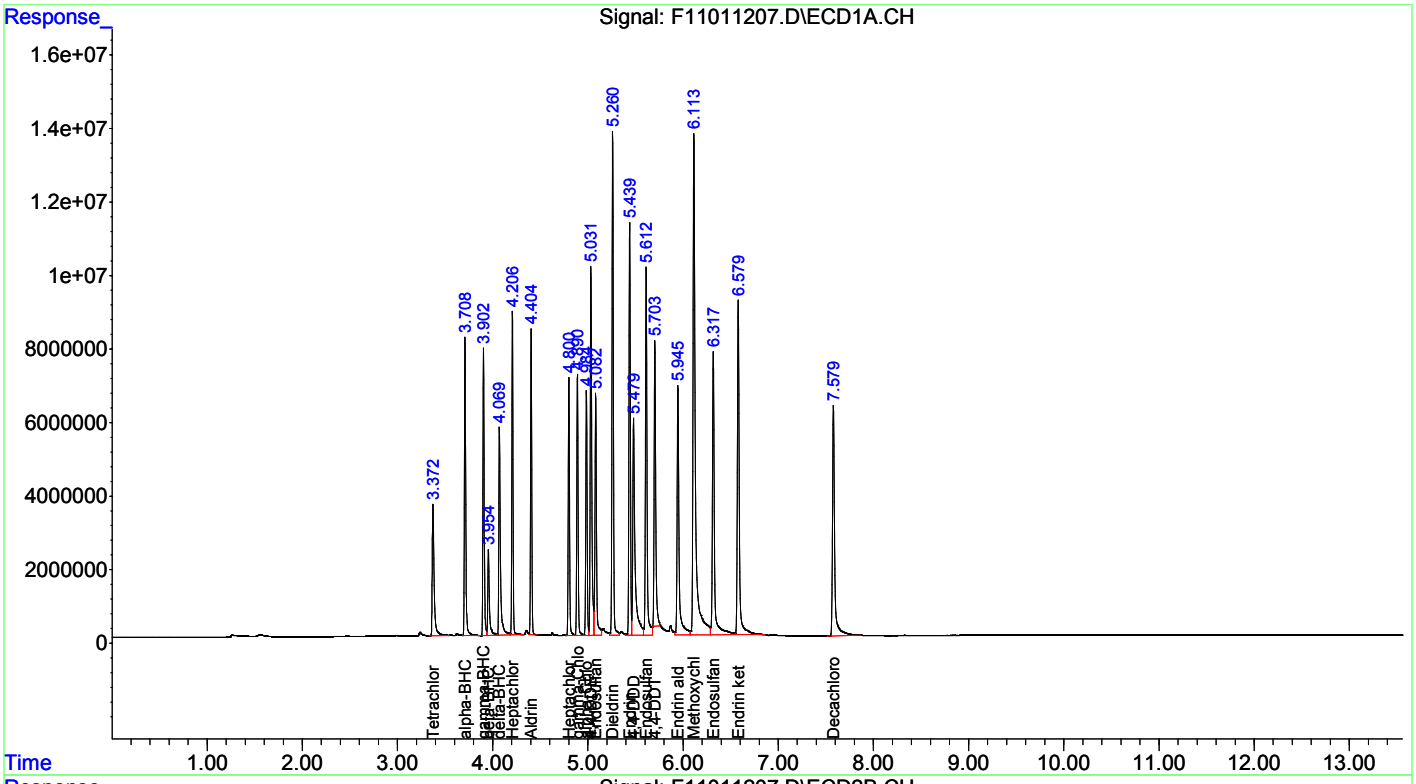
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

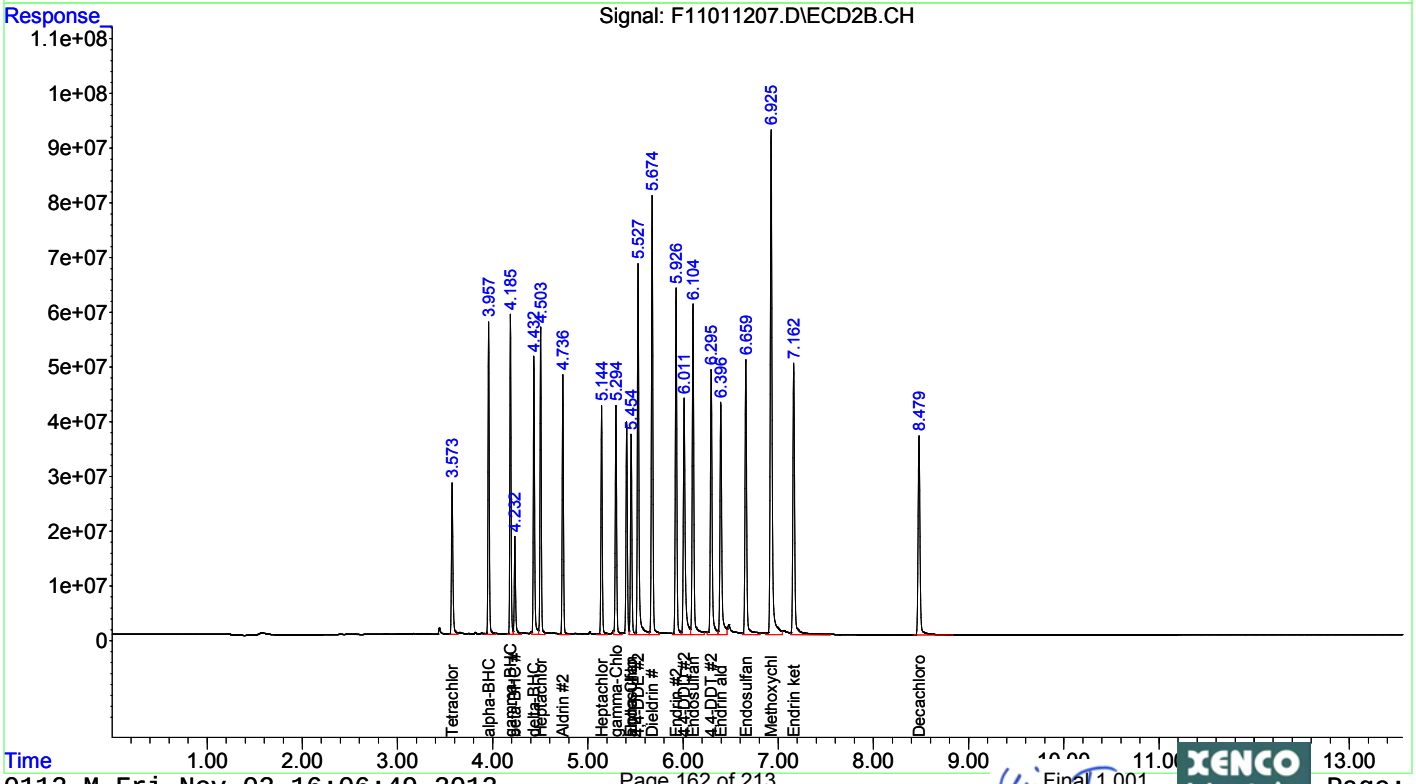
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011207.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 13:48
Operator : NT
Sample : INDC-6
Misc : ECD12061
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 15:51:23 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Wed Aug 01 14:22:59 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32



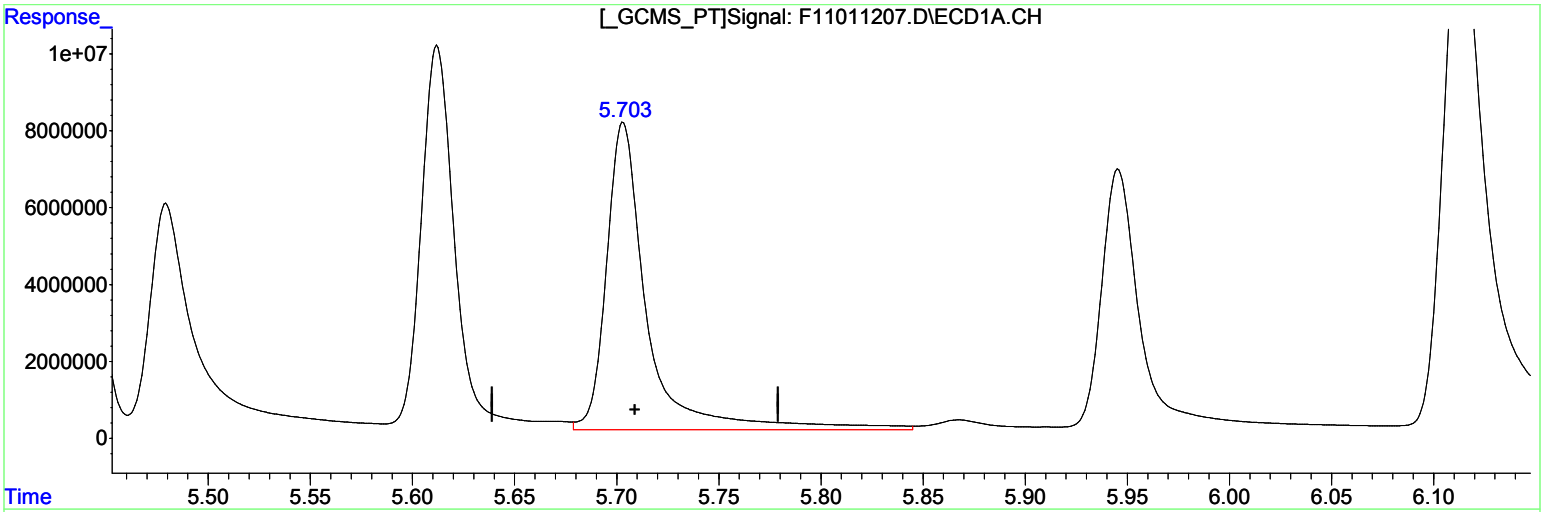


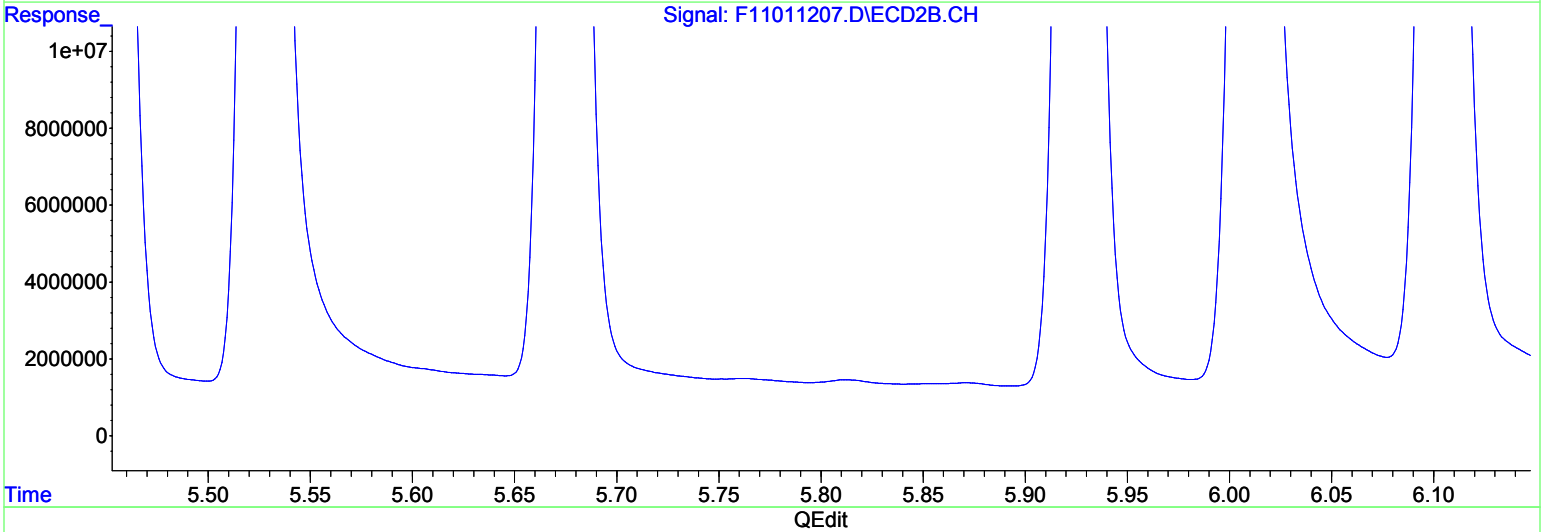
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011207.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Nov 2012 13:48
Operator : NT
Sample   : INDC-6
Misc   : ECD12061
ALS Vial : 7   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 15:44:02 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Wed Aug 01 14:22:59 2012
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

Volume Inj.   : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32   Signal #2 Info : 0.32





QEdit

(18) 4,4-DDT (T)

5.703min 229.479ug/l

response 111519892

(18) 4,4-DDT #2 (T)

6.296min 196.508ug/l

response 604627504

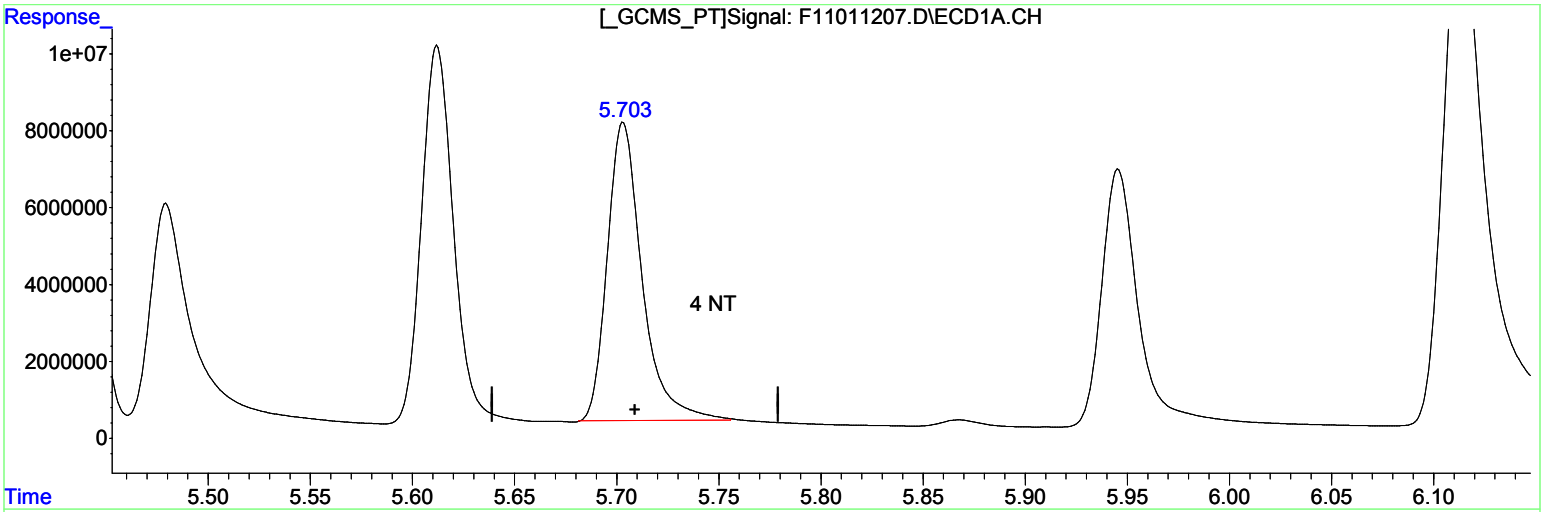
(+) = Expected Retention Time

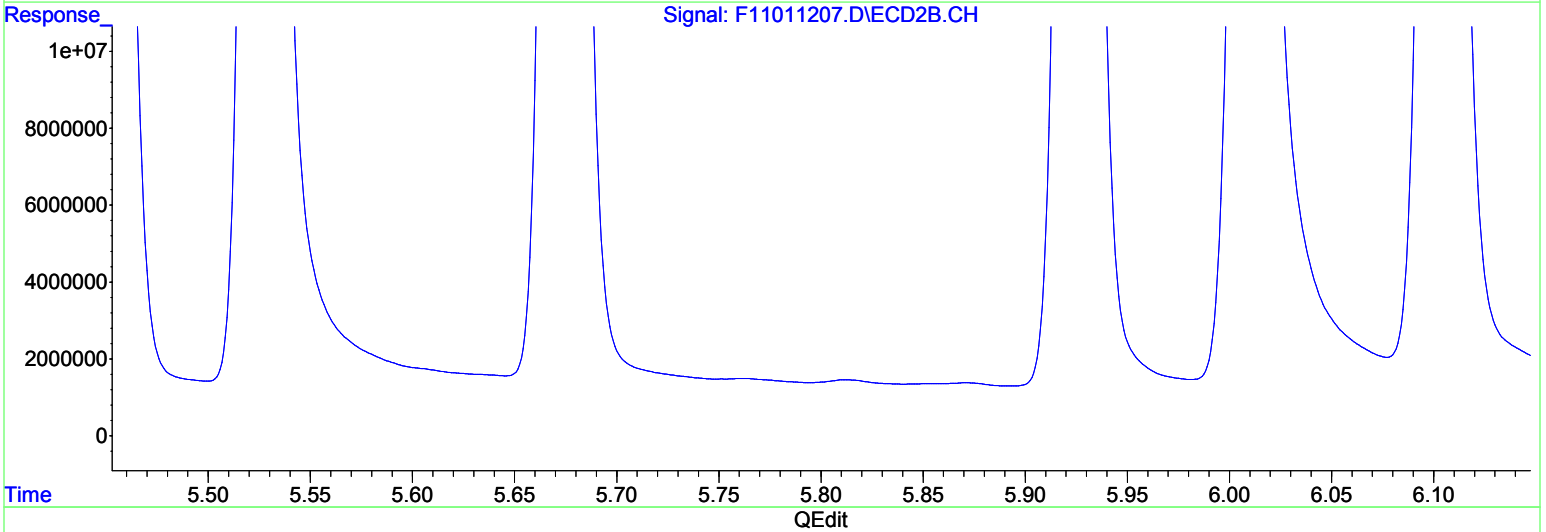
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011207.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Nov 2012 13:48
Operator : NT
Sample   : INDC-6
Misc   : ECD12061
ALS Vial : 7   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 15:44:02 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Wed Aug 01 14:22:59 2012
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

Volume Inj.   : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32   Signal #2 Info : 0.32





QEdit

(18) 4,4-DDT (T)

5.703min 189.123ug/l m

response 91908110

(18) 4,4-DDT #2 (T)

6.296min 196.508ug/l

response 604627504

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011208.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 14:06
Operator : NT
Sample : INDC-3 ICV
Misc : ECD12079
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 15:59:05 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Thu Nov 01 15:52:20 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.376	3.574	9345268	58216077	20.089	21.227
	Spiked Amount	50.000	Range	30 - 50	Recovery	= 40.18%	42.45%
22) S	Decachlor...	7.582	8.480	19705912	98850437	41.041	41.033
	Spiked Amount	50.000			Recovery	= 82.08%	82.07%
	Target Compounds						
2) T	alpha-BHC	3.710	3.957	14423656	94524938	19.631	19.965
3) T	beta-BHC	3.959	4.234	4790561	30989361	19.764	19.930
4) T	gamma-BHC...	3.904	4.186	12949638	92293723	20.047	19.828
5) T	delta-BHC	4.075	4.434	10546271	86824002	18.989	19.902
6) T	Heptachlor	4.207	4.503	14033063	98407941	20.190	20.020
7) T	Aldrin	4.404	4.737	13829513	85770279	20.086	19.803
8) T	Heptachlo...	4.800	5.144	12677398	79219052	20.313	20.553
9) T	Endosulfan I	5.083	5.455	13876595	71906976	20.414	20.525
10) T	gamma-Chl...	4.891	5.295	12621586	81415788	19.992	20.824
11) T	alpha-Chl...	4.985	5.455	11977163	71906976	19.888	20.525
12) T	4,4-DDE	5.035	5.528	19142081	145.6E6	37.796	41.061
13) T	Dieldrin	5.261	5.675	26154627	162.3E6	40.894	41.121
14) T	Endrin	5.439	5.926	20544488	122.0E6	38.614	38.366
15) T	4,4-DDD	5.489	6.015	15841700	102.0E6	37.638	39.682
16) T	Endosulfa...	5.614	6.105	22283797	132.6E6	41.346	40.718
17) T	Endrin al...	5.948	6.397	18201102	105.4E6	42.883	41.532
18) T	4,4-DDT	5.707	6.297	18707952	105.1E6	44.155	40.938
19) T	Endosulfa...	6.320	6.660	18760645	102.8E6	40.664	38.963
20) T	Methoxychlor	6.122	6.928	45456365	238.9E6	212.107	205.654
21) T	Endrin ke...	6.582	7.164	23036503	119.2E6	41.101	41.234
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

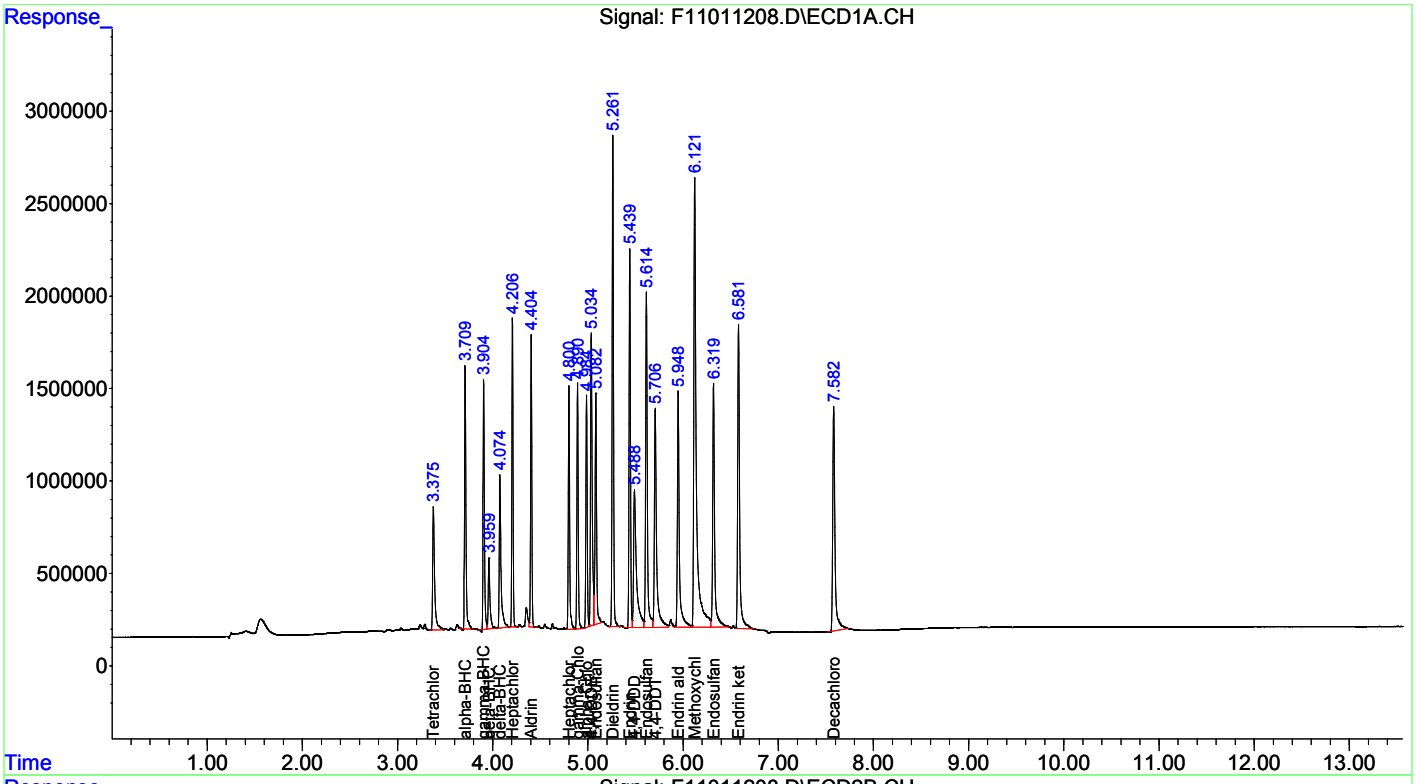
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

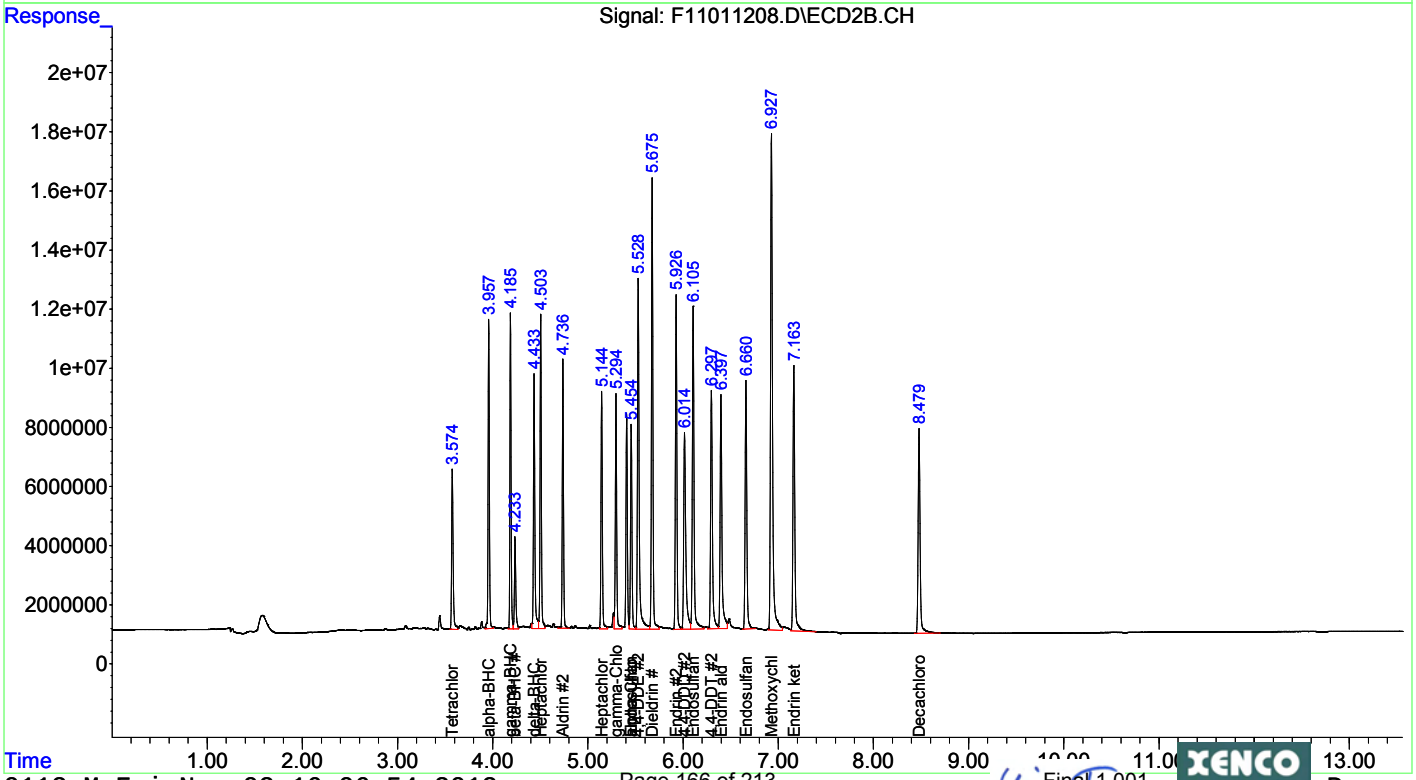
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011208.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 14:06
Operator : NT
Sample : INDC-3 ICV
Misc : ECD12079
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 15:59:05 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Thu Nov 01 15:52:20 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011208.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Nov 2012 14:06
Operator : NT
Sample   : INDC-3 ICV
Misc   : ECD12079
ALS Vial : 8   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 15:58:01 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Thu Nov 01 15:52:20 2012
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

Volume Inj.   : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32   Signal #2 Info : 0.32

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	S	Tetrachloro-m-xylene	20.000	20.089	-0.4	100	0.00
2	T	alpha-BHC	20.000	19.631	1.8	100	0.00
3	T	beta-BHC	20.000	19.764	1.2	100	0.00
4	T	gamma-BHC (Lindane)	20.000	20.047	-0.2	99	0.00
5	T	delta-BHC	20.000	18.989	5.1	98	0.00
6	T	Heptachlor	20.000	20.190	-1.0	102	0.00
7	T	Aldrin	20.000	20.086	-0.4	101	0.00
8	T	Heptachlor epoxide	20.000	20.313	-1.6	101	0.00
9	T	Endosulfan I	20.000	20.414	-2.1	104	0.00
10	T	gamma-Chlordane	20.000	19.992	0.0	100	0.00
11	T	alpha-Chlordane	20.000	19.888	0.6	100	0.00
12	T	4,4-DDE	40.000	37.796	5.5	95	0.00
13	T	Dieldrin	40.000	40.894	-2.2	101	0.00
14	T	Endrin	40.000	38.614	3.5	96	0.00
15	T	4,4-DDD	40.000	37.638	5.9	96	0.00
16	T	Endosulfan II	40.000	41.346	-3.4	102	0.00
17	T	Endrin aldehyde	40.000	42.883	-7.2	106	0.00
18	T	4,4-DDT	40.000	44.155	-10.4	106	0.00
19	T	Endosulfan sulfate	40.000	40.664	-1.7	101	0.00
20	T	Methoxychlor	200.000	212.107	-6.1	102	0.00
21	T	Endrin ketone	40.000	41.101	-2.8	103	0.00
22	S	Decachlorobiphenyl	40.000	41.041	-2.6	101	0.00
24	L2	Toxaphene-2	2000.000	1758.799	12.1	86	0.00
25	L2	Toxaphene-3	2000.000	2225.839	-11.3	108	0.06
26	L2	Toxaphene-4	2000.000	6723.233	-236.2#	318	-0.05
27	L2	Toxaphene-5	2000.000	2331.342	-16.6	118	0.06
28	L1	Chlordane	200.000	678.778	-239.4#	338	0.05
29	L1	Chlordane-2	200.000	395.983	-98.0#	192	0.00
31	L1	Chlordane-4	200.000	174.081	13.0	87	0.00
32	L1	Chlordane-5	200.000	112.771	43.6#	57	0.00

Signal #2

1	S	Tetrachloro-m-xylene	20.000	21.227	-6.1	108	0.00
2	T	alpha-BHC	20.000	19.965	0.2	100	0.00
3	T	beta-BHC	20.000	19.930	0.4	101	0.00
4	T	gamma-BHC (Lindane)	20.000	19.828	0.9	101	0.00
5	T	delta-BHC	20.000	19.902	0.5	99	0.00
6	T	Heptachlor	20.000	20.020	-0.1	102	0.00
7	T	Aldrin	20.000	19.803	1.0	101	0.00
8	T	Heptachlor epoxide	20.000	20.553	-2.8	104	0.00
9	T	Endosulfan I	20.000	20.525	-2.6	104	0.00
10	T	gamma-Chlordane	20.000	20.824	-4.1	105	0.00
11	T	alpha-Chlordane	20.000	20.525	-2.6	104	0.00
12	T	4,4-DDE	40.000	41.061	-2.7	105	0.00
13	T	Dieldrin	40.000	41.121	-2.8	104	0.00
14	T	Endrin	40.000	38.366	4.1	96	0.00
15	T	4,4-DDD	40.000	39.682	0.8	98	0.00
16	T	Endosulfan II	40.000	40.718	-1.8	102	0.00
17	T	Endrin aldehyde	40.000	41.532	-3.8	103	0.00
18	T	4,4-DDT	40.000	40.938	-2.3	103	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011208.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Nov 2012 14:06
Operator : NT
Sample   : INDC-3 ICV
Misc   : ECD12079
ALS Vial : 8   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 15:58:01 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Thu Nov 01 15:52:20 2012
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

Volume Inj.   : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32   Signal #2 Info : 0.32

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
19	T	Endosulfan sulfate	40.000	38.963	2.6	102	0.00
20	T	Methoxychlor	200.000	205.654	-2.8	103	0.00
21	T	Endrin ketone	40.000	41.234	-3.1	104	0.00
22	S	Decachlorobiphenyl	40.000	41.033	-2.6	102	0.00
23	L2	Toxaphene	2000.000	3847.685	-92.4#	199	0.00
24	L2	Toxaphene-2	2000.000	1928.308	3.6	96	-0.03
26	L2	Toxaphene-4	2000.000	97.798	95.1#	5	0.03
27	L2	Toxaphene-5	2000.000	4412.145	-120.6#	214	0.00
28	L1	Chlordane	200.000	543.800	-171.9#	271	0.01
29	L1	Chlordane-2	200.000	356.085	-78.0#	174	-0.02
30	L1	Chlordane-3	200.000	6.452	96.8#	3	0.01
31	L1	Chlordane-4	200.000	161.740	19.1	80	-0.03
32	L1	Chlordane-5	200.000	154.191	22.9#	77	0.02

Evaluate Continuing Calibration Report - Not Founds

23	L2	Toxaphene	2000.000	0.000	100.0#	0	-5.34#
30	L1	Chlordane-3	200.000	0.000	100.0#	0	-4.49#

Signal #2

25	L2	Toxaphene-3	2000.000	0.000	100.0#	0	-6.22#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011209.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 14:24
Operator : NT
Sample : TOX-1
Misc : ECD12064
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:49:16 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:48:28 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
Target Compounds						
23) L2 Toxaphene	5.330	5.653	2077193	16784663	451.166m	442.363m
24) L2 Toxaphene-2	5.603	6.100	5563953	27526244	445.138m	441.920m
25) L2 Toxaphene-3	5.881	6.183	3549598	46451270	431.255m	434.778m
26) L2 Toxaphene-4	6.164	6.419	2640575	27641523	391.340	451.507m
27) L2 Toxaphene-5	6.250	6.896	2999806	21582762	390.693	437.716m
Sum Toxaphene			16831125	140.0E6	2109.590	2208.285
Average Toxaphene					421.918	441.657
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

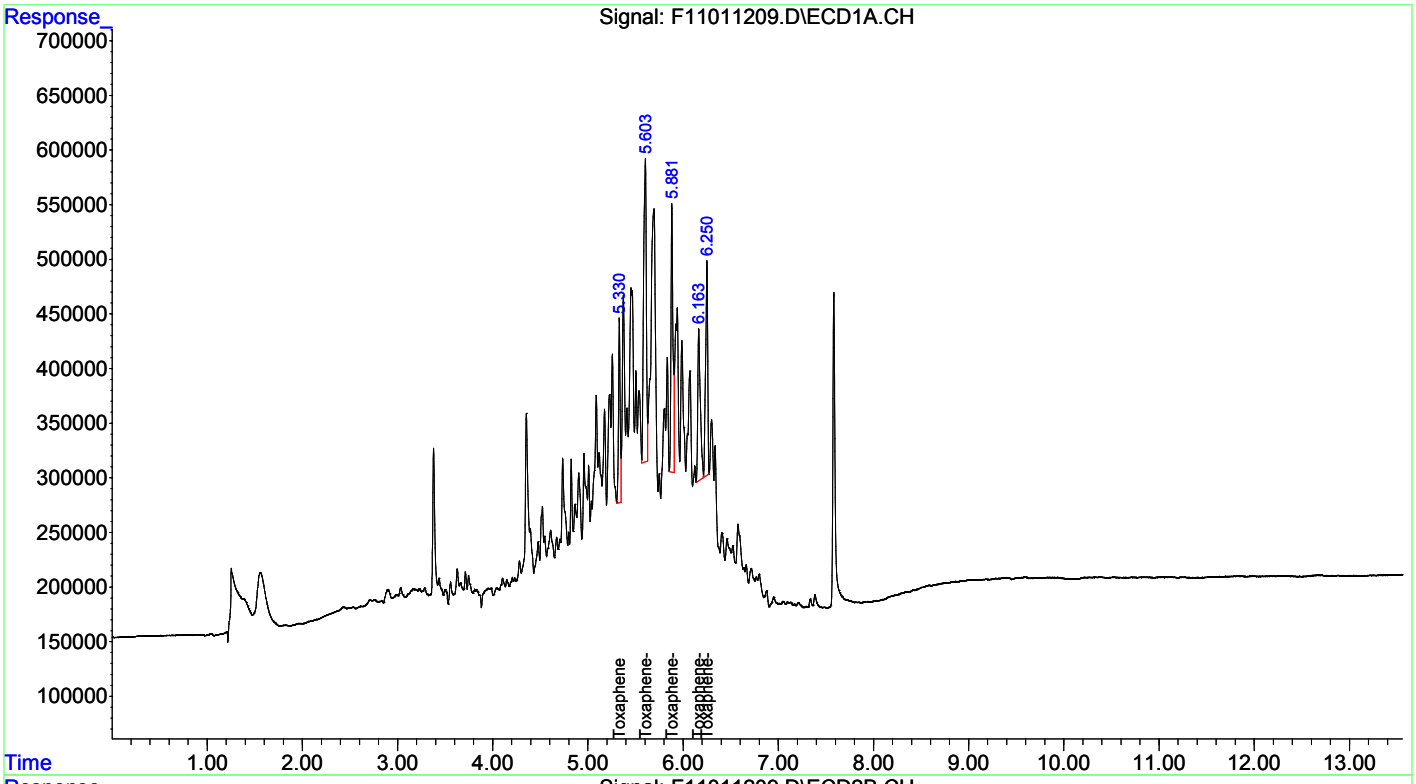
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

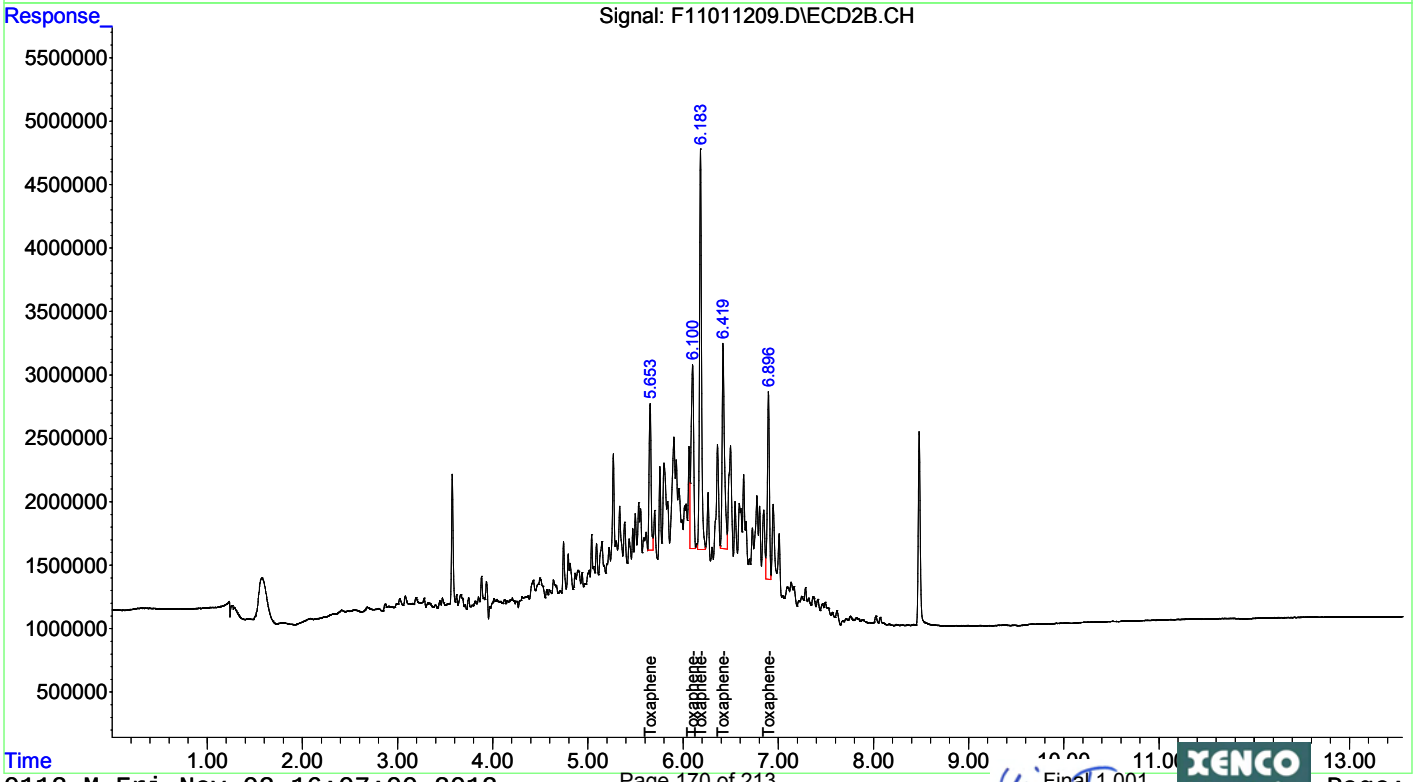
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011209.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 14:24
Operator : NT
Sample : TOX-1
Misc : ECD12064
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:49:16 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:48:28 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32



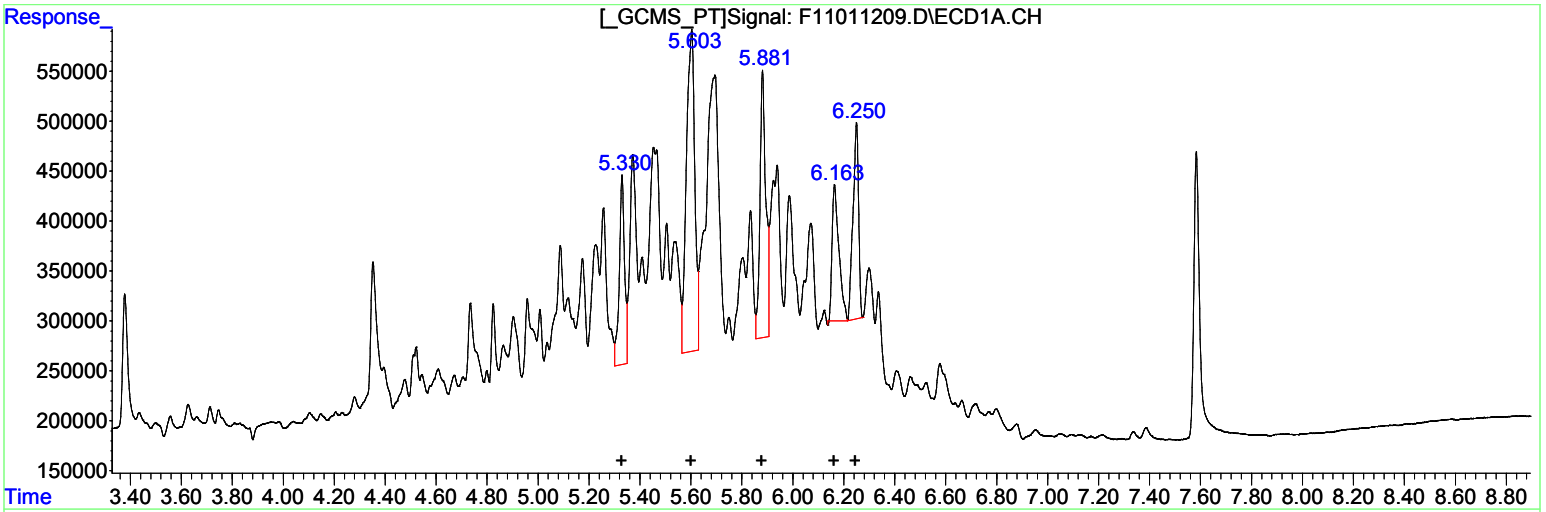


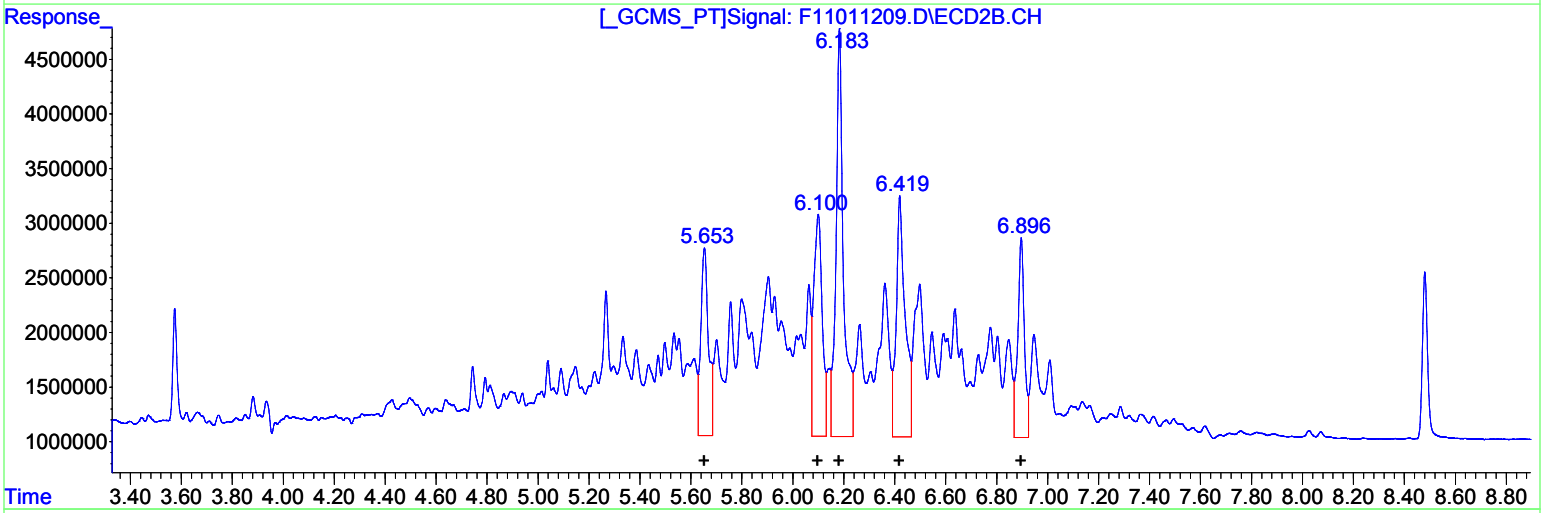
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011209.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 14:24
Operator : NT
Sample : TOX-1
Misc : ECD12064
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:48:33 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:48:28 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





QEdit

(23) Toxaphene (L2)

R.T.	Response	Conc
5.33	2719756	590.73
5.60	7340248	587.25
5.88	4283355	520.40
6.16	2640575	391.34
6.25	2999806	390.69

(23) Toxaphene #2 (L2)

R.T.	Response	Conc
5.65	36225248	954.72
6.10	46966006	754.02
6.18	76135904	712.62
6.42	53830510	879.29
6.90	33564379	680.71

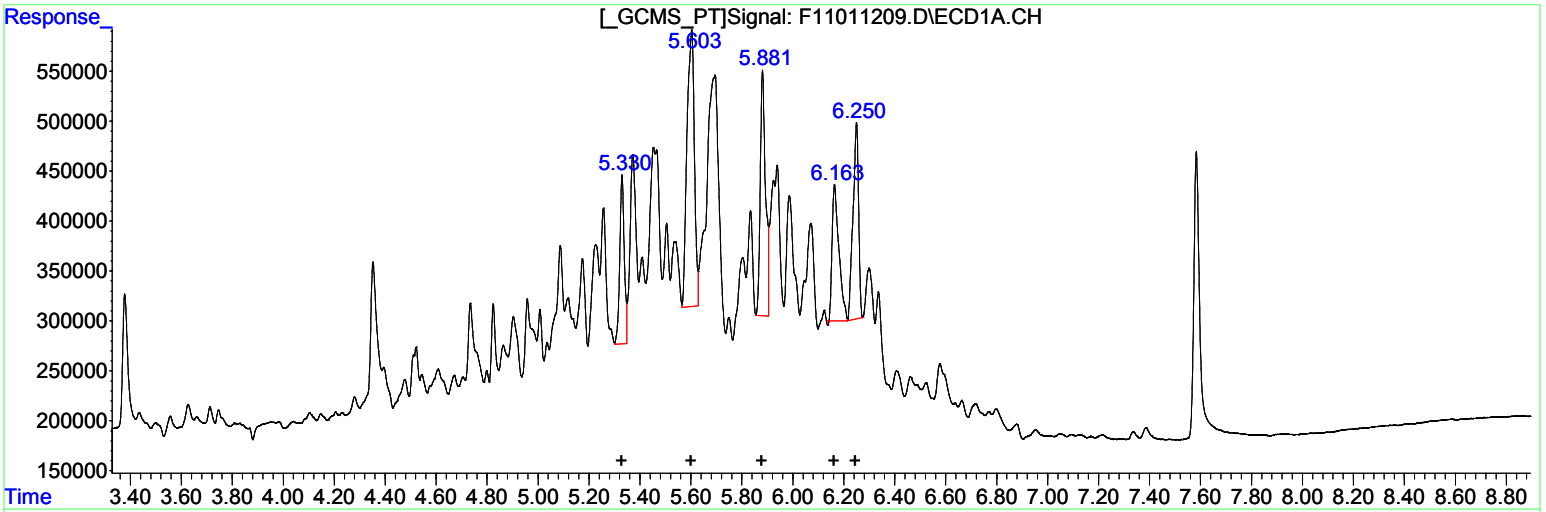
(+) = Expected Retention Time

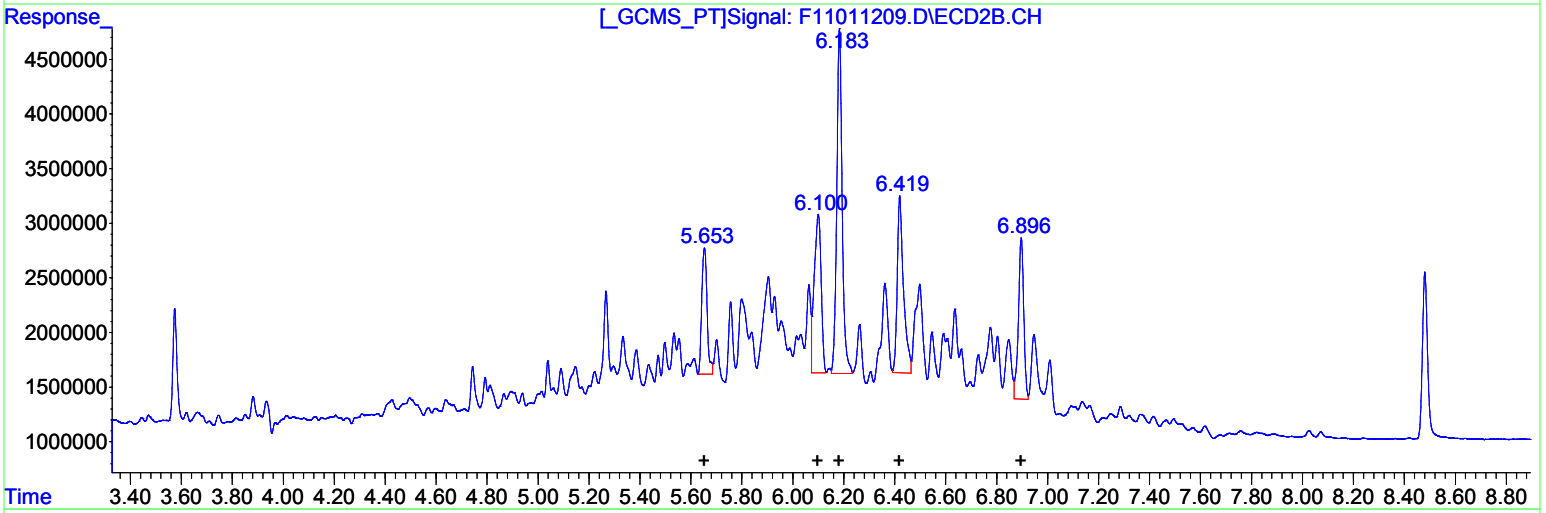
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011209.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 14:24
Operator : NT
Sample : TOX-1
Misc : ECD12064
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:48:33 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:48:28 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





QEdit

(23) Toxaphene #2 (L2)

R.T.	Response	Conc
5.33	2077193	451.17
5.60	5563953	445.14
5.88	3549598	431.25
6.16	2640575	391.34
6.25	2999806	390.69

(23) Toxaphene #2 (L2)

R.T.	Response	Conc
5.65	16784663	442.36
6.10	27526244	441.92
6.18	46451270	434.78
6.42	27641523	451.51
6.90	21582762	437.72

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011210.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 14:41
Operator : NT
Sample : TOX-2
Misc : ECD12065
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:48:20 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:47:33 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
	Target Compounds						
23)	L2 Toxaphene	5.329	5.653	4550331	36879361	993.180m	953.116m
24)	L2 Toxaphene-2	5.602	6.100	12011839	60430370	955.555m	950.074m
25)	L2 Toxaphene-3	5.880	6.182	7907187	99876741	959.462m	910.905m
26)	L2 Toxaphene-4	6.164	6.418	6737369	56307427	991.419	895.303m
27)	L2 Toxaphene-5	6.248	6.895	7411772	46781063	957.007	929.200m
	Sum Toxaphene			38618497	300.3E6	4856.623	4638.598
Average	Toxaphene					971.325	927.720
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

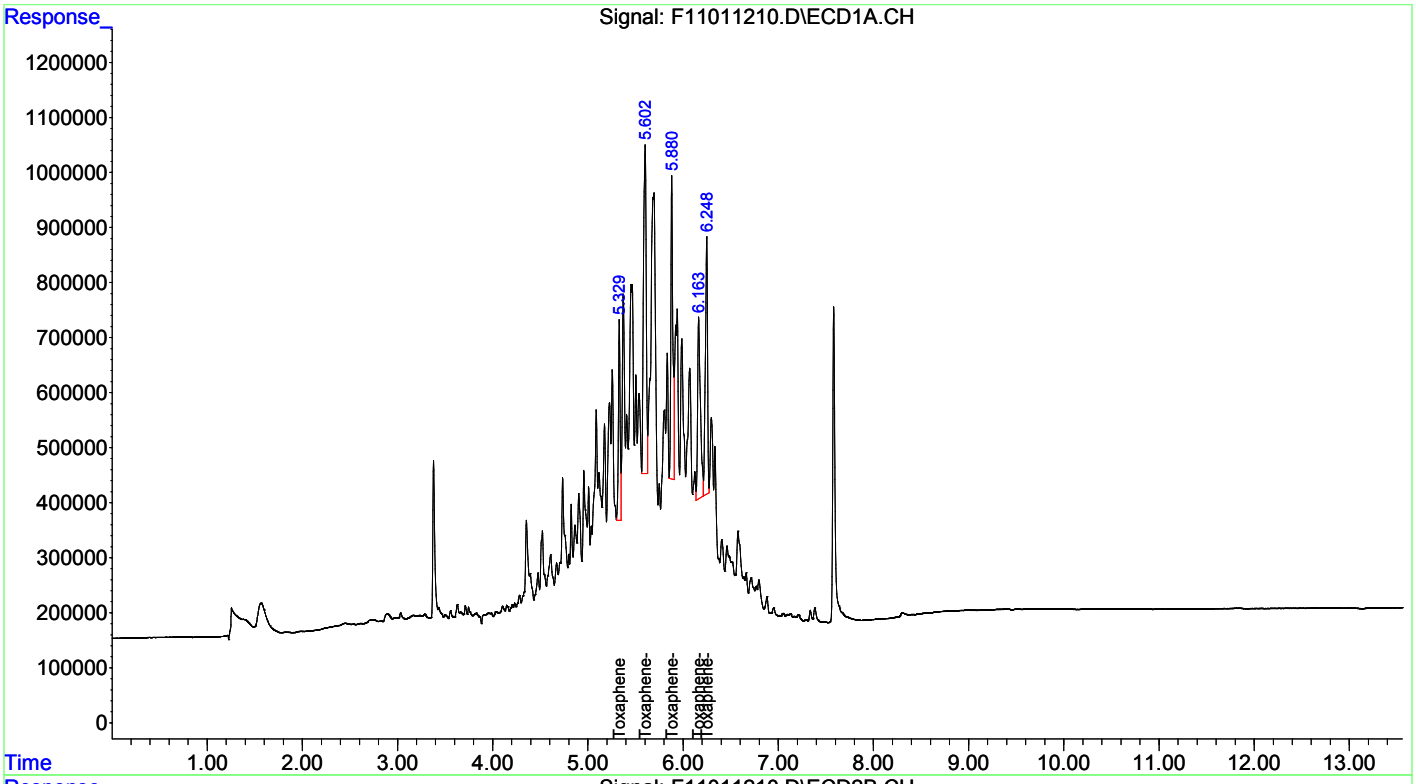
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

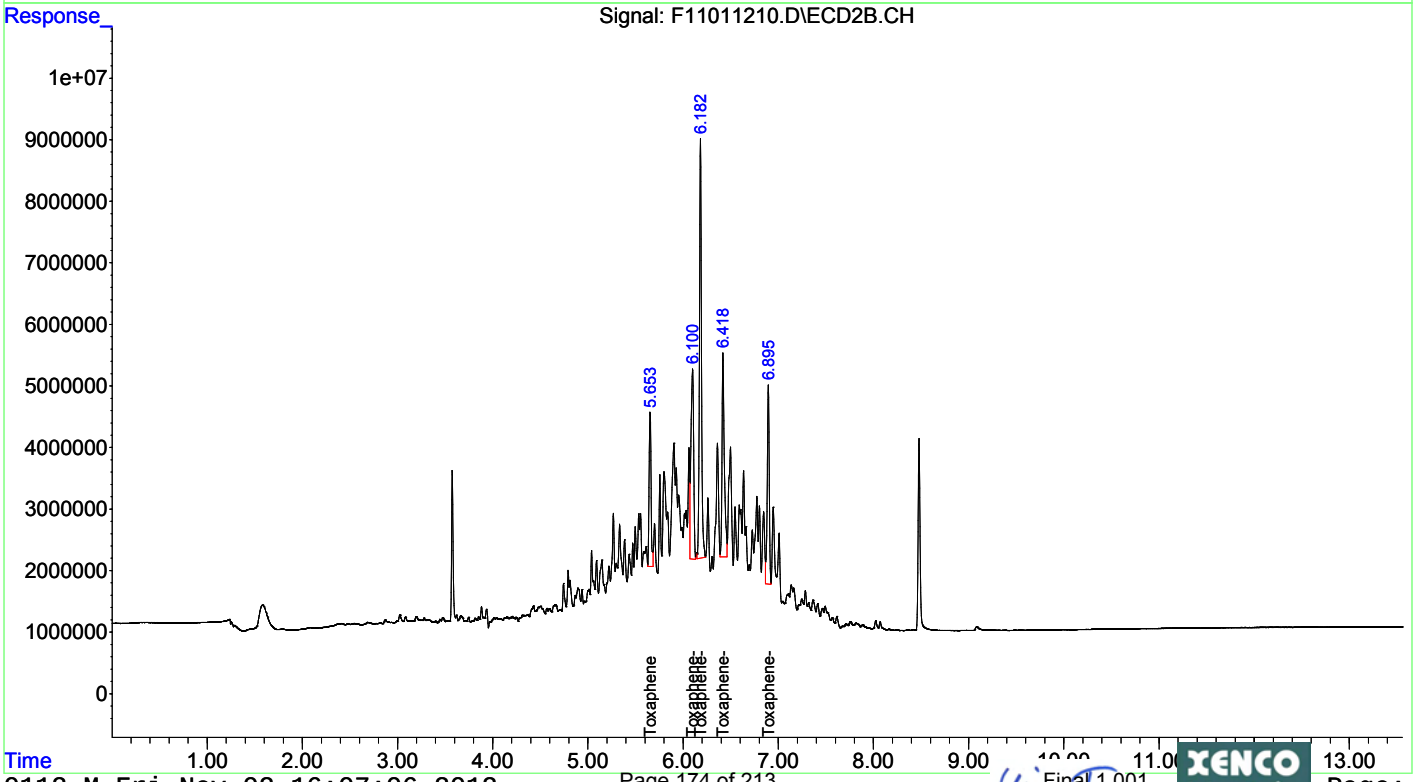
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011210.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 14:41
Operator : NT
Sample : TOX-2
Misc : ECD12065
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:48:20 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:47:33 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32



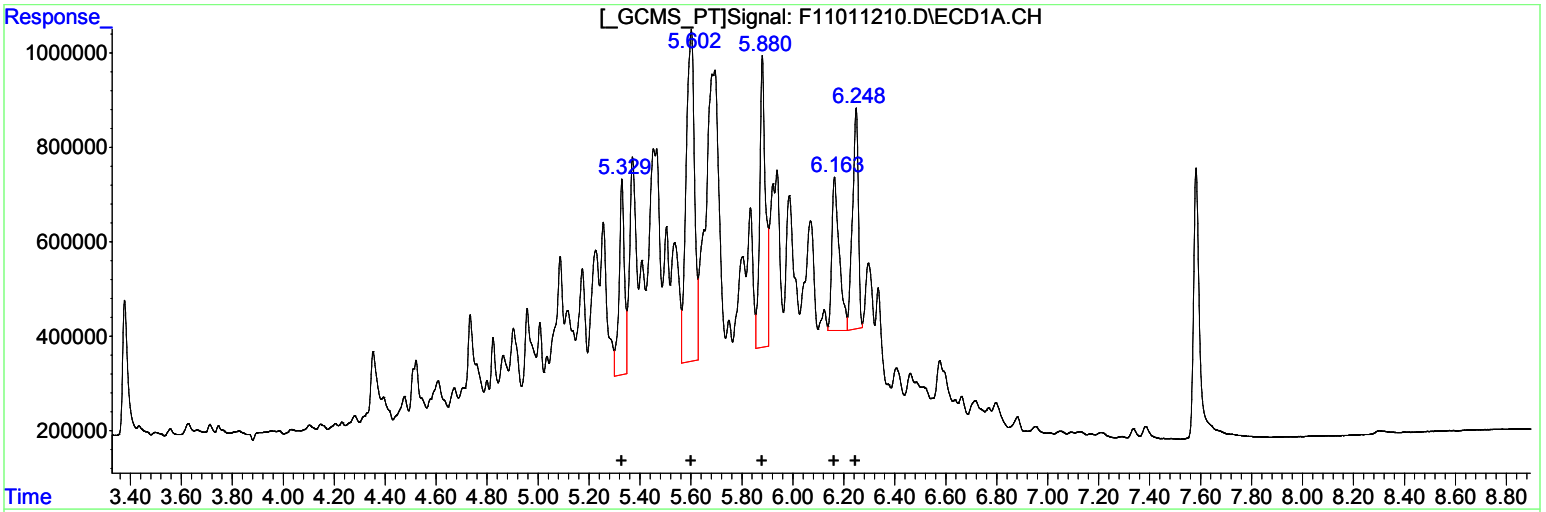


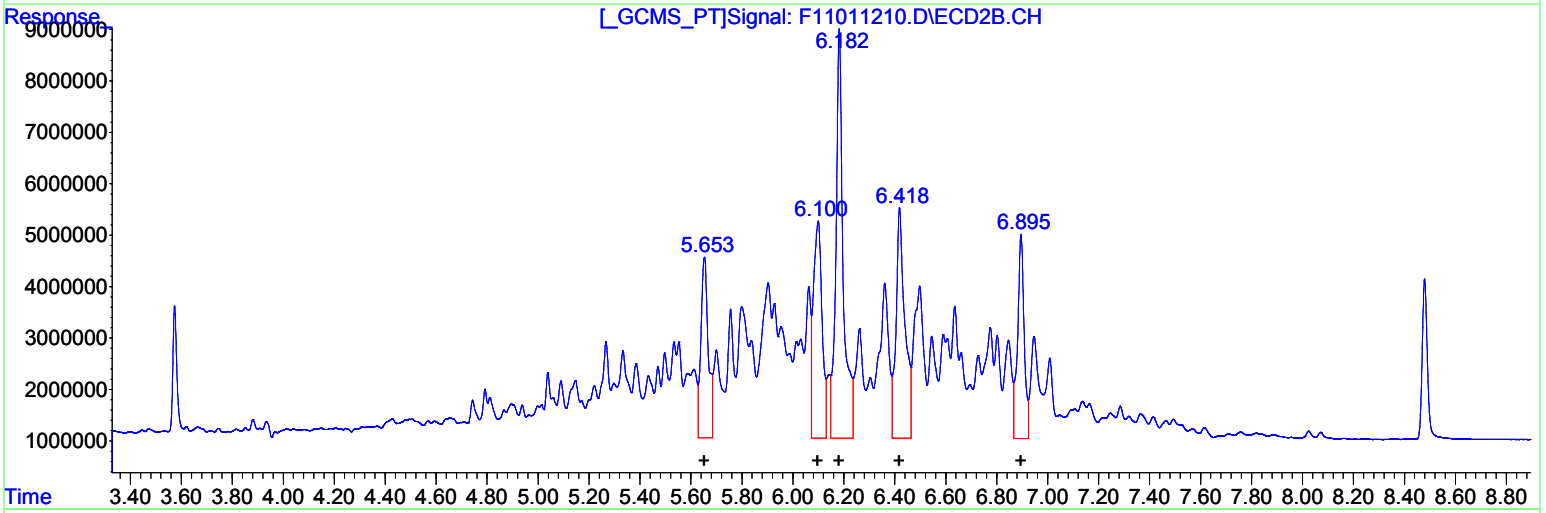
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011210.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 14:41
Operator : NT
Sample : TOX-2
Misc : ECD12065
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:47:38 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:47:33 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





QEdit

(23) Toxaphene (L2)

R.T.	Response	Conc
5.33	6051249	1320.78
5.60	16161098	1285.63
5.88	9823667	1192.01
6.16	6737369	991.42
6.25	7411772	957.01

(23) Toxaphene #2 (L2)

R.T.	Response	Conc
5.65	71259513	1841.64
6.10	99636477	1566.47
6.18	160161402	1460.72
6.42	109516601	1741.34
6.90	71894342	1428.02

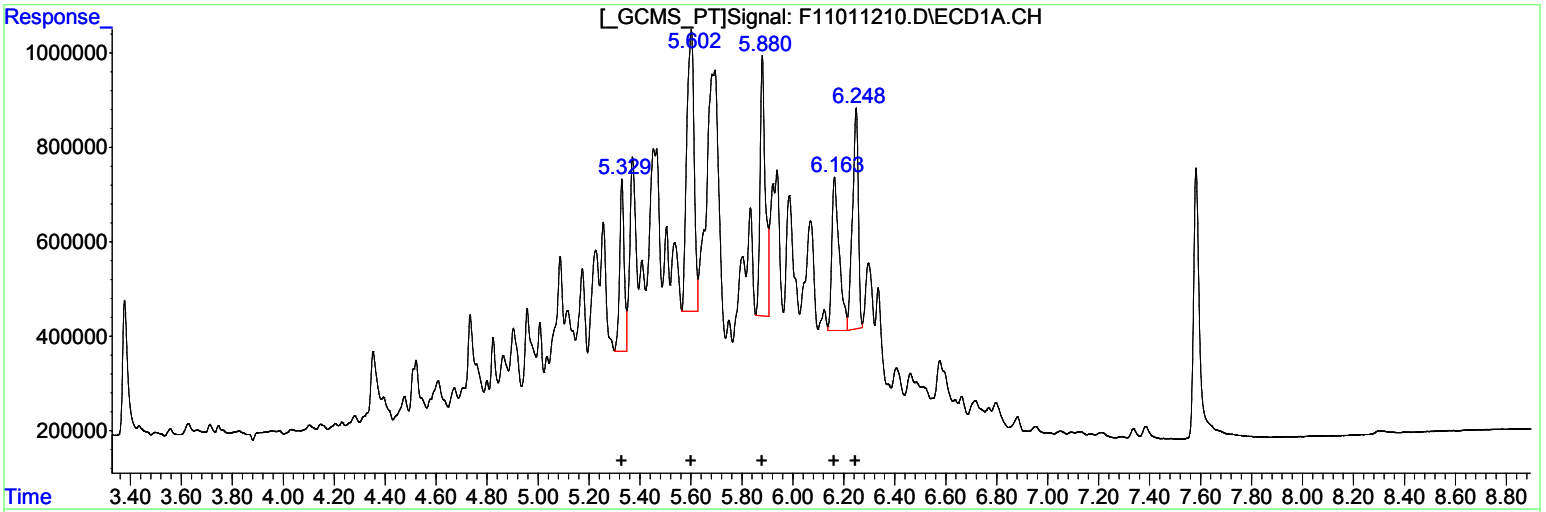
(+) = Expected Retention Time

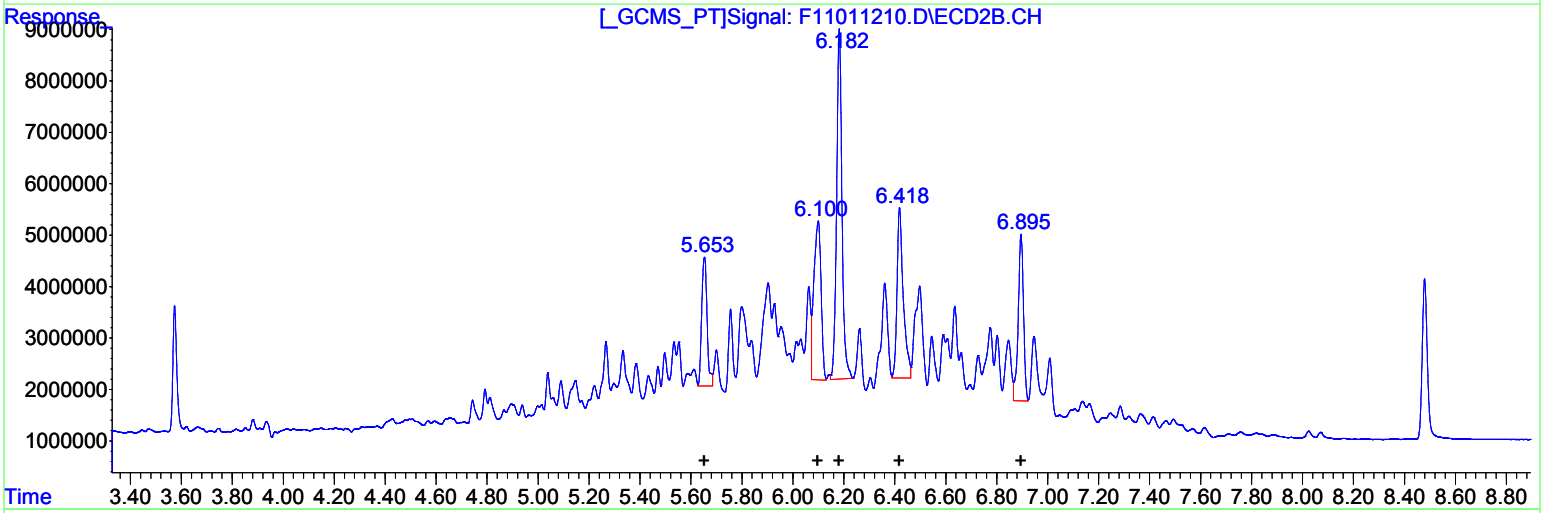
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011210.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Nov 2012 14:41
Operator : NT
Sample   : TOX-2
Misc   : ECD12065
ALS Vial : 10   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:47:38 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:47:33 2012
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

Volume Inj.   : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32   Signal #2 Info : 0.32





QEdit

(23) Toxaphene #2 (L2)

R.T.	Response	Conc
5.33	4550331	993.18
5.60	12011839	955.56
5.88	7907187	959.46
6.16	6737369	991.42
6.25	7411772	957.01

(23) Toxaphene #2 (L2)

R.T.	Response	Conc
5.65	36879361	953.12
6.10	60430370	950.07
6.18	99876741	910.91
6.42	56307427	895.30
6.90	46781063	929.20

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011211.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 14:59
Operator : NT
Sample : TOX-3
Misc : ECD12066
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:47:24 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:46:31 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
Target Compounds						
23) L2 Toxaphene	5.329	5.652	9532723	75481004	2081.163m	1925.099m
24) L2 Toxaphene-2	5.601	6.099	26268927	123.4E6	2093.624m	1904.449m
25) L2 Toxaphene-3	5.879	6.182	16817107	213.1E6	2039.434m	1905.224m
26) L2 Toxaphene-4	6.163	6.418	14278339	114.2E6	2101.026m	1765.701m
27) L2 Toxaphene-5	6.247	6.894	16035154	100.2E6	2072.520m	1952.453m
Sum Toxaphene			82932249	626.4E6	10387.767	9452.926
Average Toxaphene					2077.553	1890.585
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

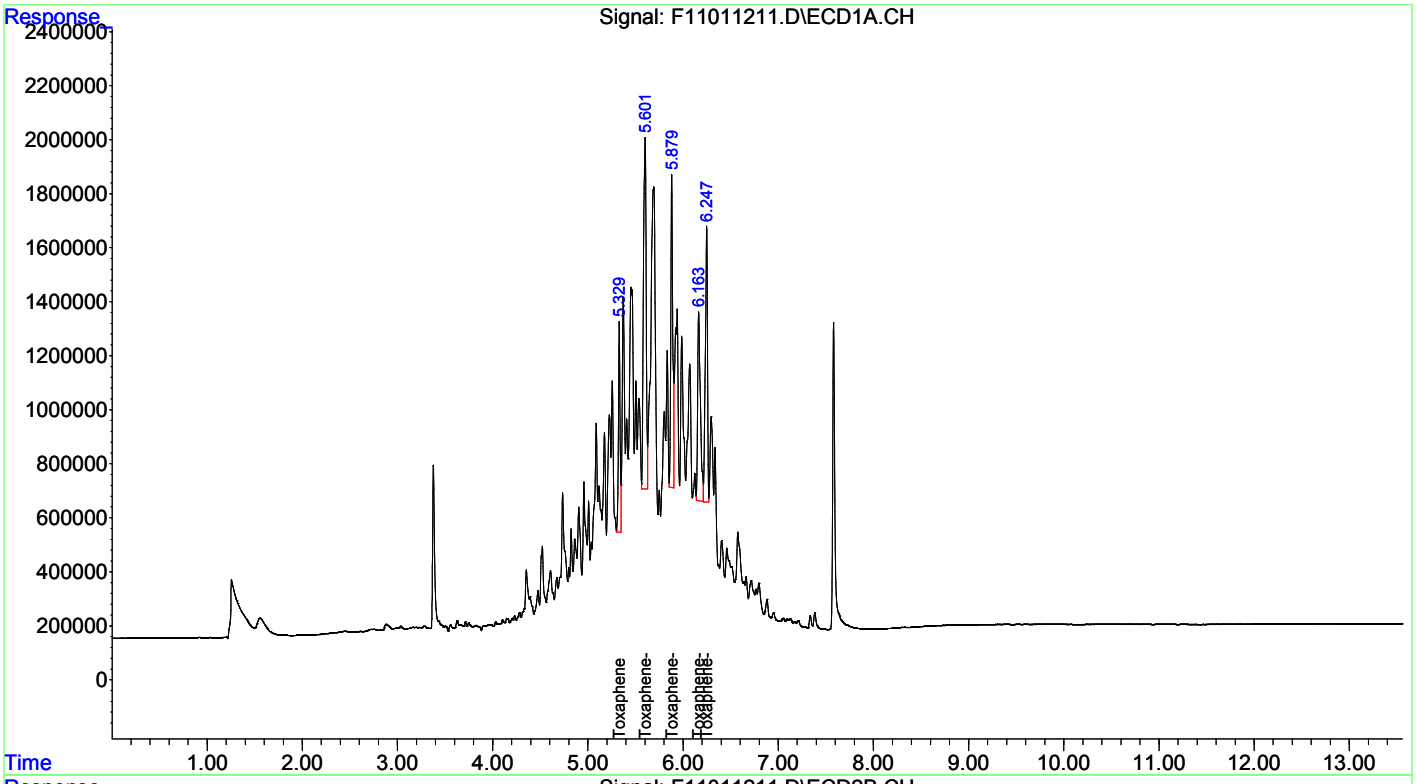
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

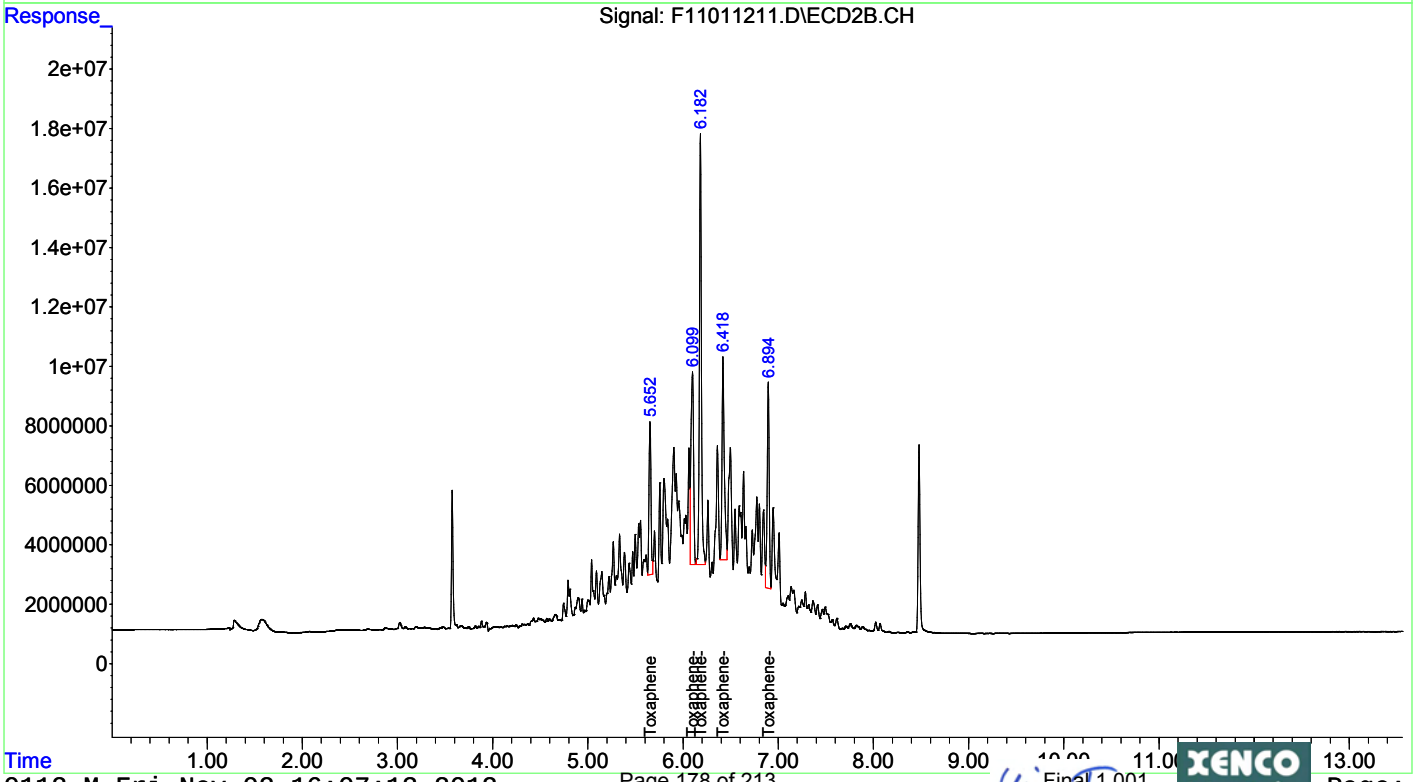
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011211.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 14:59
Operator : NT
Sample : TOX-3
Misc : ECD12066
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:47:24 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:46:31 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32



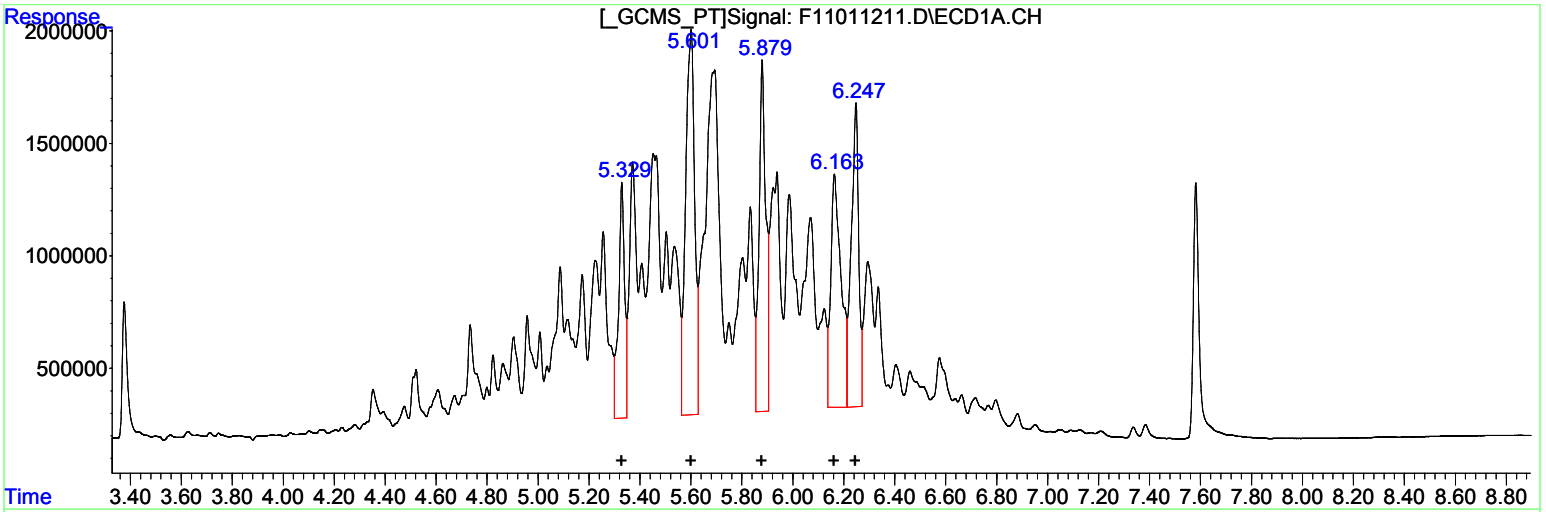


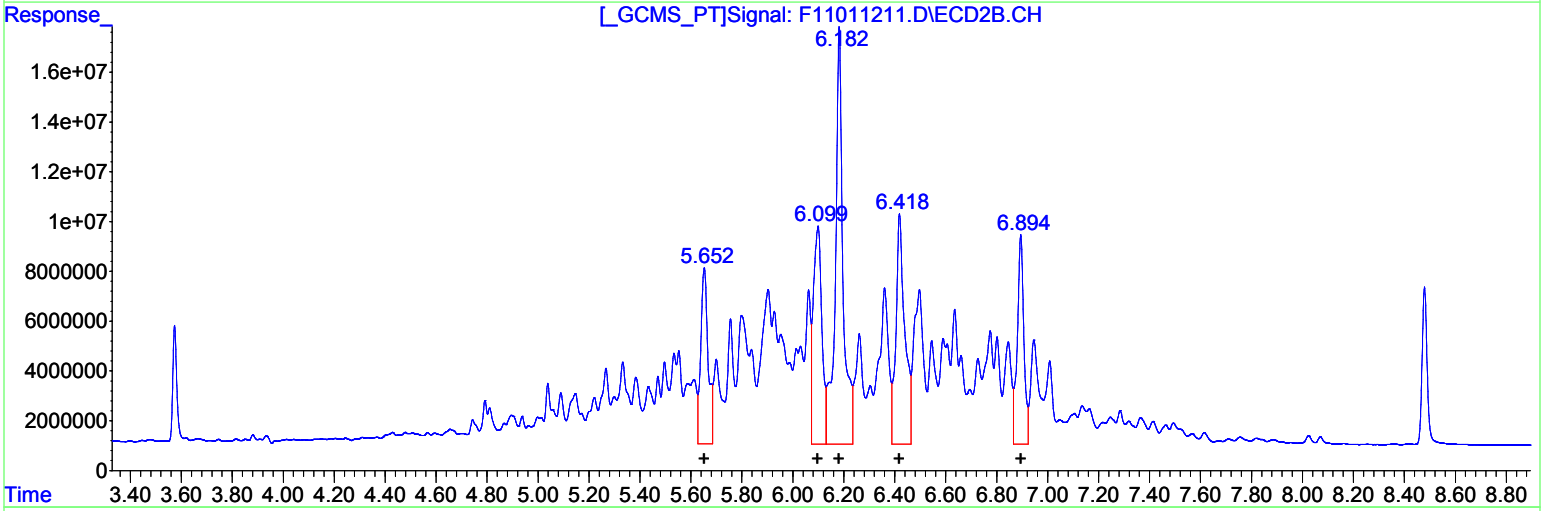
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011211.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Nov 2012 14:59
Operator : NT
Sample   : TOX-3
Misc   : ECD12066
ALS Vial : 11   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:46:36 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:46:31 2012
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

Volume Inj.   : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32   Signal #2 Info : 0.32





QEdit

(23) Toxaphene (L2)

R.T.	Response	Conc
5.33	17618378	3846.41
5.60	42237013	3366.27
5.88	29254874	3547.78
6.16	29608117	4356.77
6.25	27691263	3579.06

(23) Toxaphene #2 (L2)

R.T.	Response	Conc
5.65	141877250	3618.50
6.10	204263374	3152.72
6.18	354863671	3172.33
6.42	223543874	3455.53
6.89	151876663	2960.81

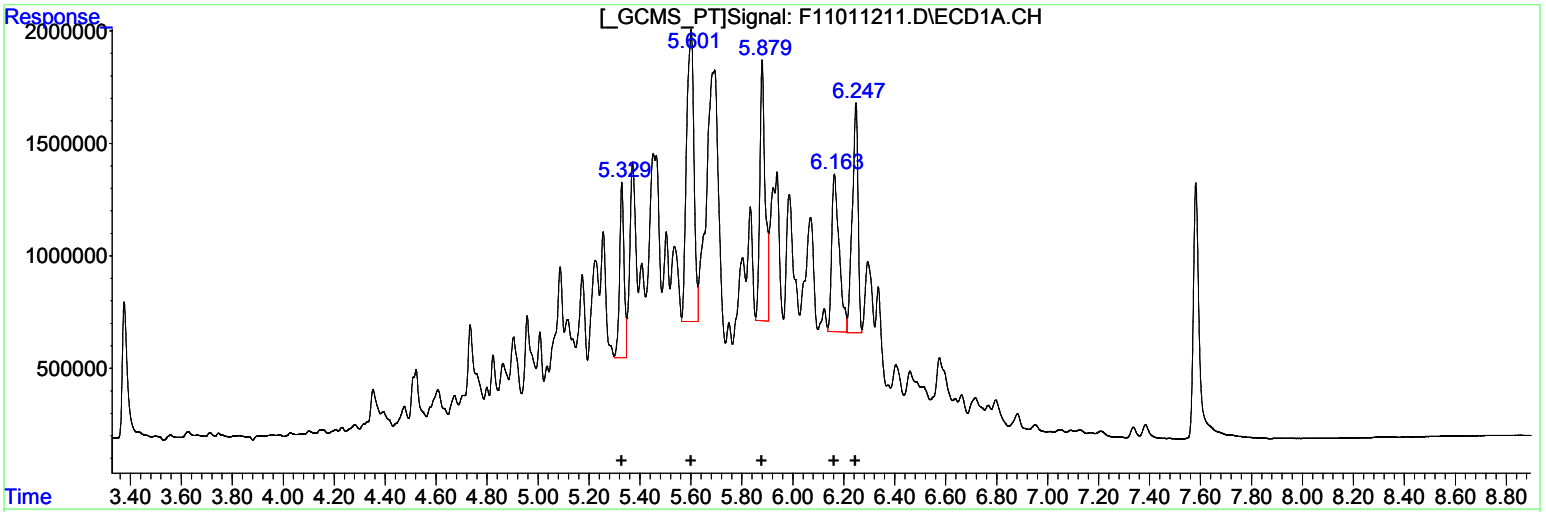
(+) = Expected Retention Time

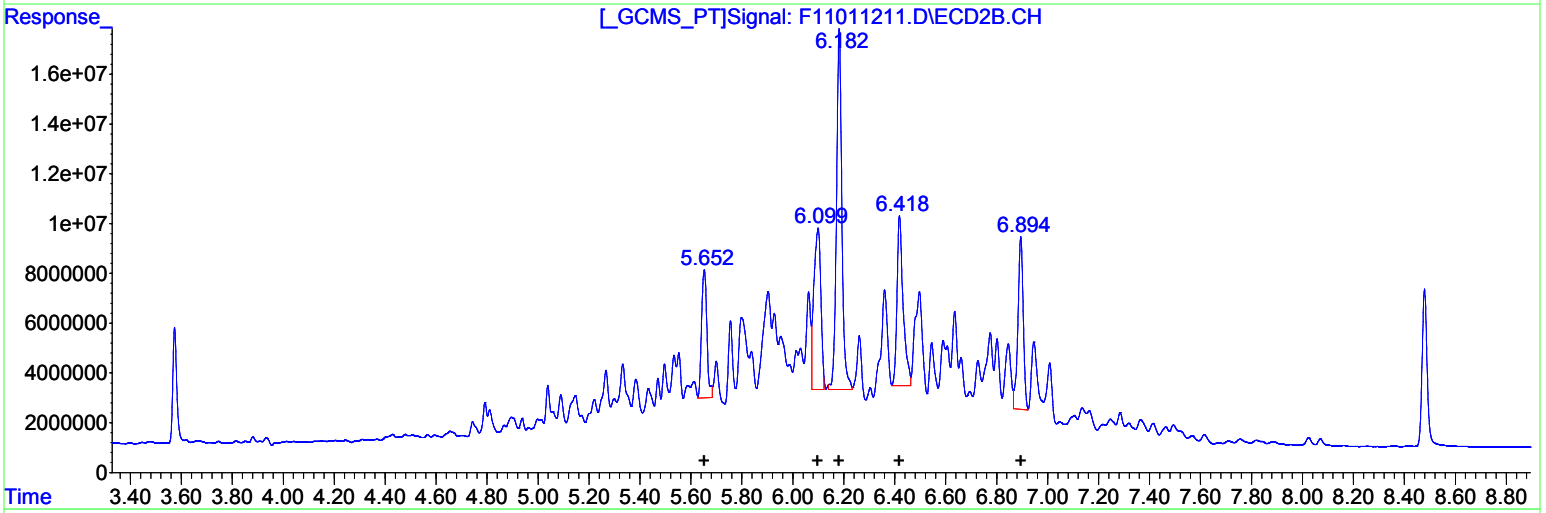
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011211.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Nov 2012 14:59
Operator : NT
Sample   : TOX-3
Misc   : ECD12066
ALS Vial : 11   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:46:36 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:46:31 2012
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

Volume Inj.   : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32   Signal #2 Info : 0.32





QEdit

(23) Toxaphene #2 (L2)

R.T.	Response	Conc
5.33	9532723	2081.16
5.60	26268927	2093.62
5.88	16817107	2039.43
6.16	14278339	2101.03
6.25	16035154	2072.52

(23) Toxaphene #2 (L2)

R.T.	Response	Conc
5.65	75481004	1925.10
6.10	123388532	1904.45
6.18	213122754	1905.22
6.42	114226114	1765.70
6.89	100152300	1952.45

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011212.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 15:16
Operator : NT
Sample : TOX-4
Misc : ECD12067
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:46:22 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:45:31 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
Target Compounds						
23) L2 Toxaphene	5.329	5.652	19126156	147.1E6	4168.555m	3634.157m
24) L2 Toxaphene-2	5.600	6.098	53333704	250.5E6	4249.629m	3770.102m
25) L2 Toxaphene-3	5.879	6.182	34896504	436.9E6	4214.873m	3811.702m
26) L2 Toxaphene-4	6.161	6.418	29550734	231.3E6	4332.897m	3504.577m
27) L2 Toxaphene-5	6.246	6.894	32916366	210.5E6	4209.236m	4025.343m
Sum Toxaphene			169.8E6	1276.2E6	21175.189	18745.880
Average Toxaphene					4235.038	3749.176
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000

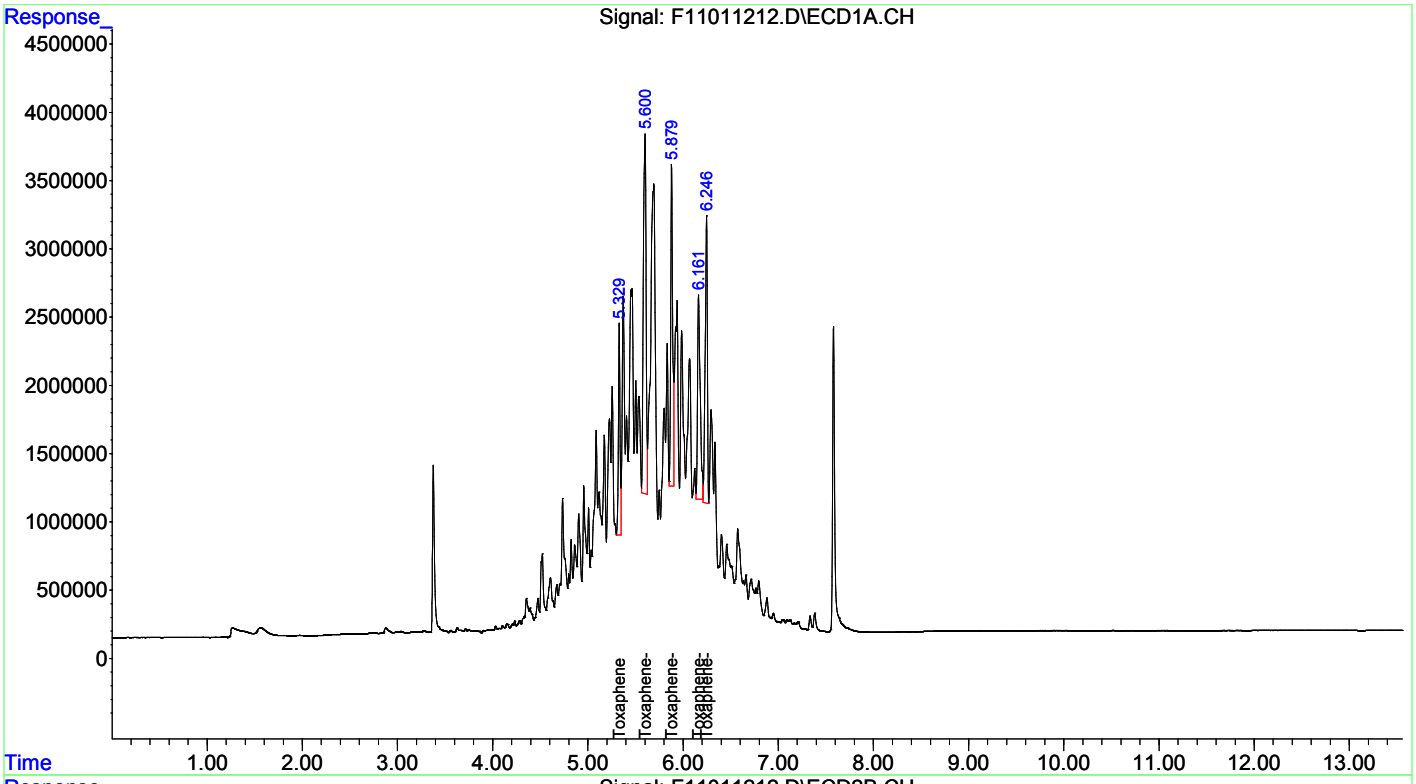
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

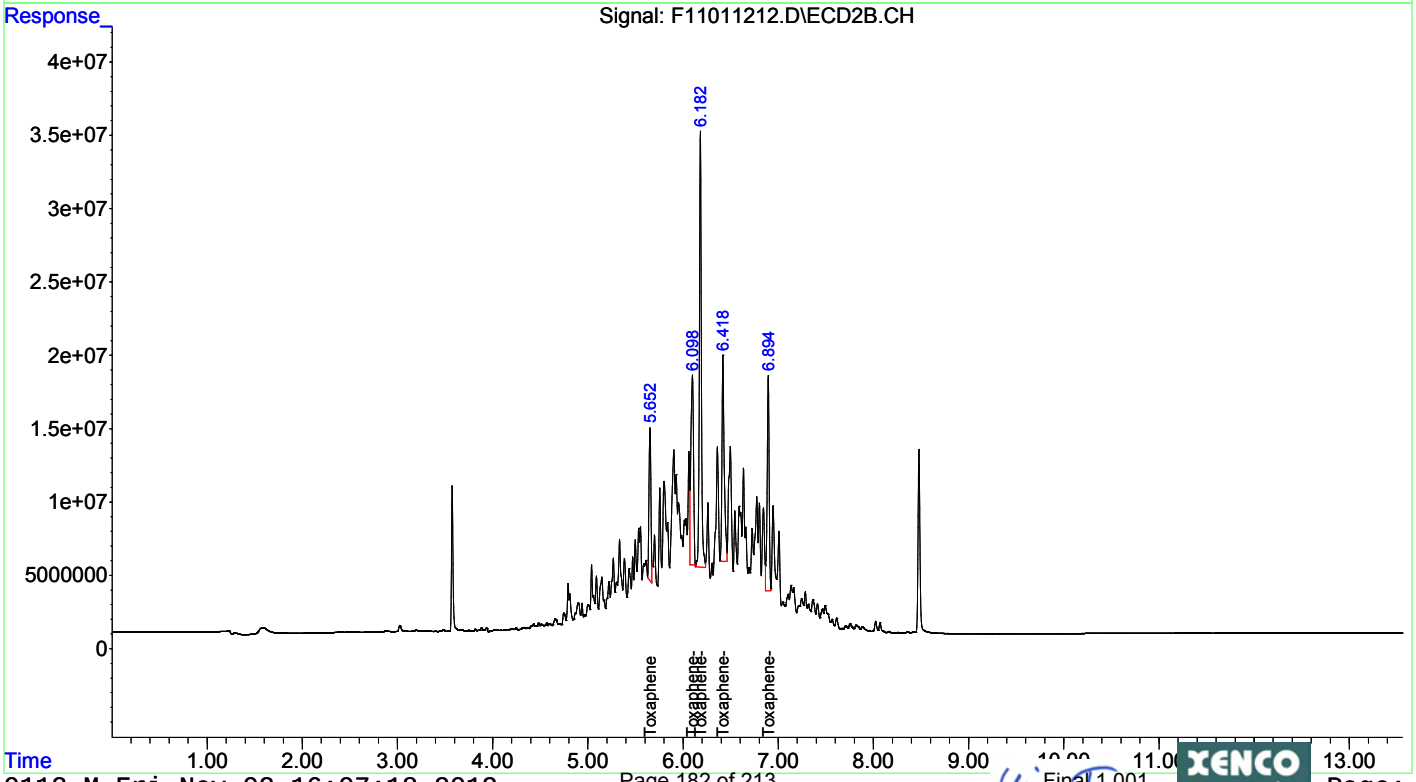
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011212.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 15:16
Operator : NT
Sample : TOX-4
Misc : ECD12067
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:46:22 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:45:31 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32



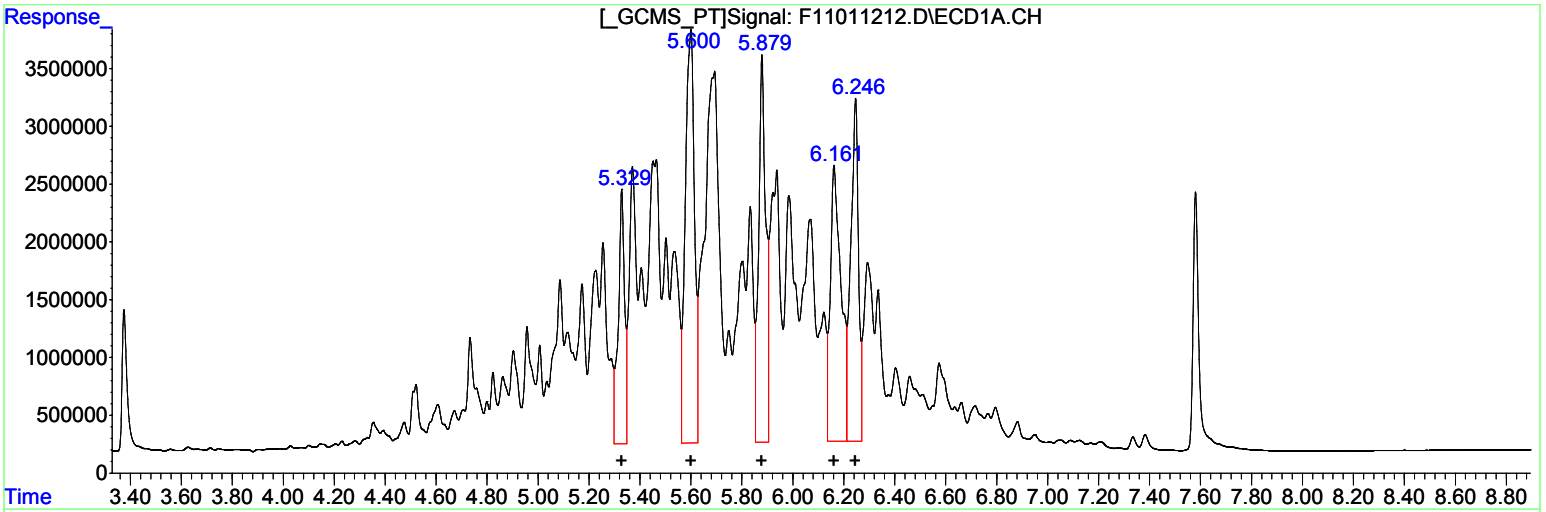


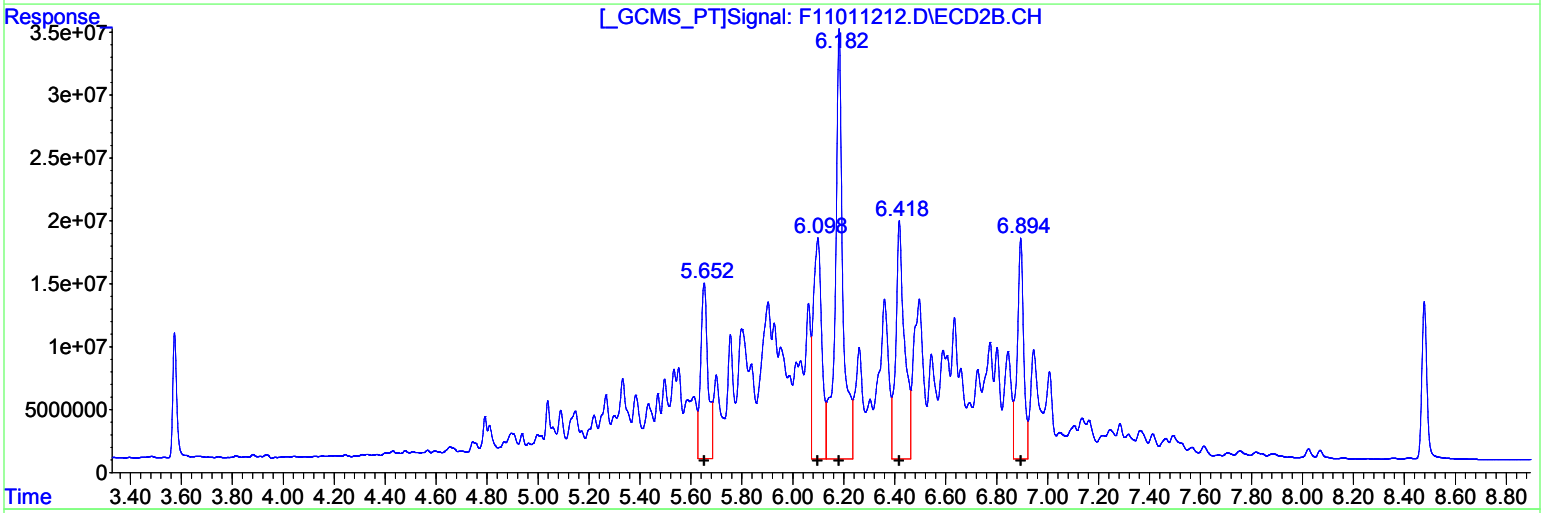
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011212.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 15:16
Operator : NT
Sample : TOX-4
Misc : ECD12067
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:45:36 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:45:31 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





QEdit

(23) Toxaphene (L2)

R.T.	Response	Conc
5.33	38136100	8311.78
5.60	89705647	7147.74
5.88	64978759	7848.27
6.16	70126583	10282.36
6.25	63251958	8088.45

(23) Toxaphene #2 (L2)

R.T.	Response	Conc
5.65	277228220	6850.86
6.10	410931920	6185.20
6.18	713758639	6227.84
6.42	449222135	6806.99
6.89	309562105	5919.12

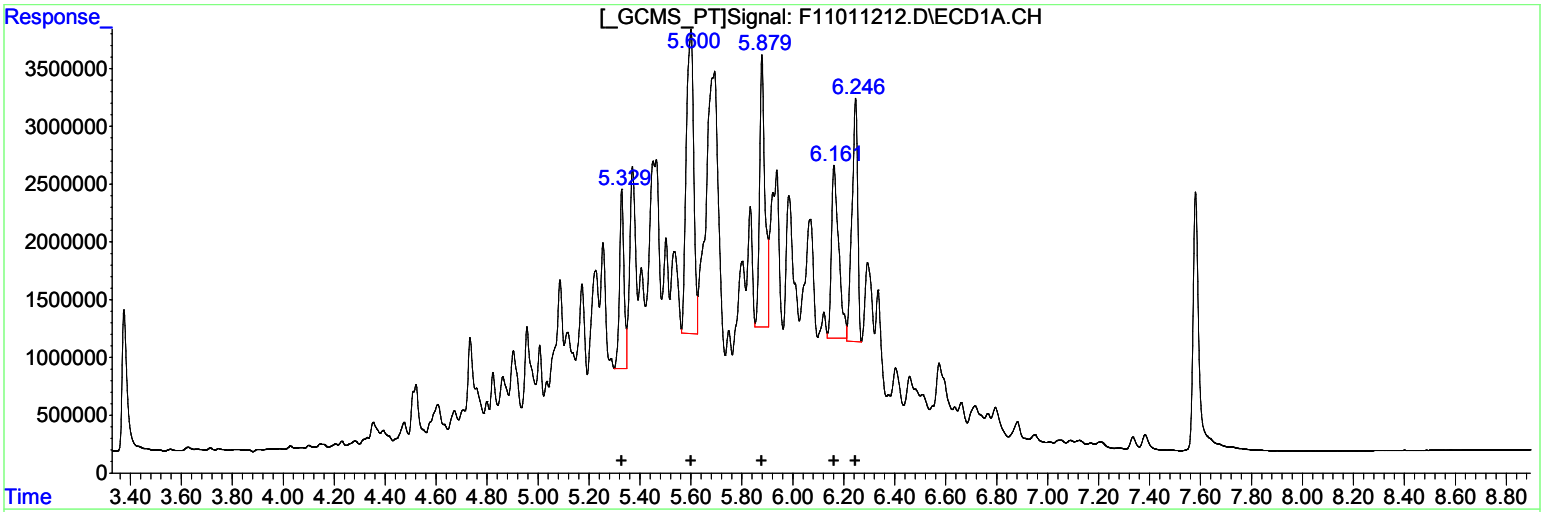
(+) = Expected Retention Time

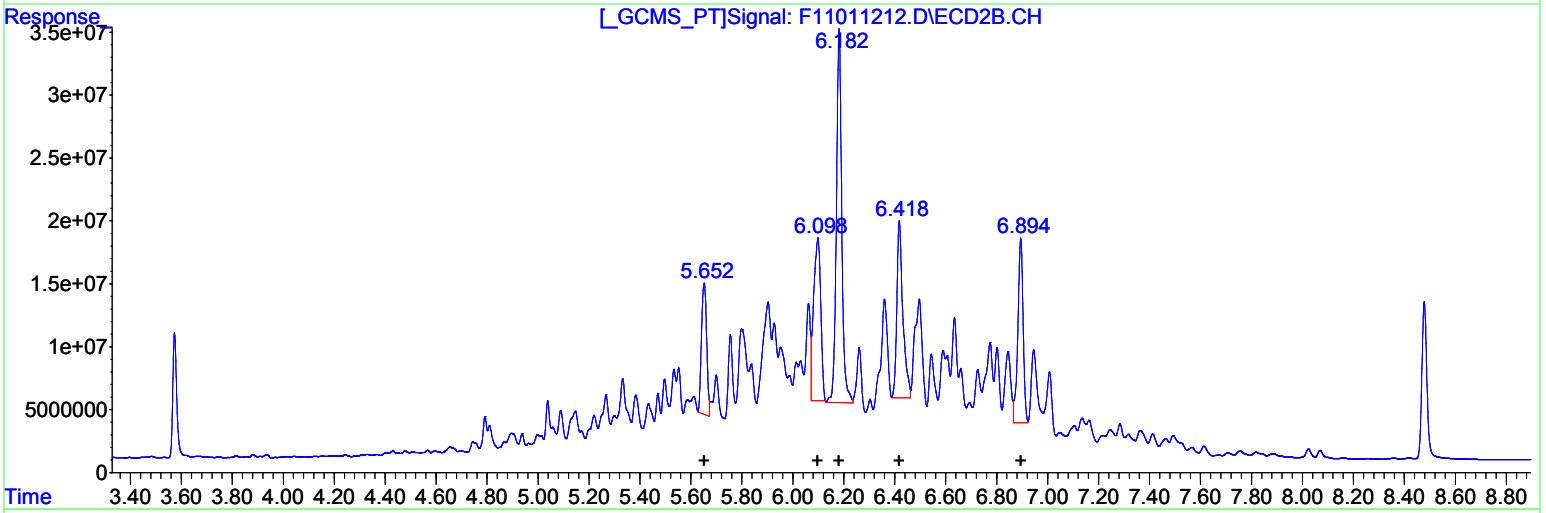
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011212.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Nov 2012 15:16
Operator : NT
Sample   : TOX-4
Misc   : ECD12067
ALS Vial : 12   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:45:36 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:45:31 2012
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

Volume Inj.   : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32   Signal #2 Info : 0.32





QEdit

(23) Toxaphene #2 (L2)

R.T.	Response	Conc
5.33	19126156	4168.55
5.60	53333704	4249.63
5.88	34896504	4214.87
6.16	29550734	4332.90
6.25	32916366	4209.24

(23) Toxaphene #2 (L2)

R.T.	Response	Conc
5.65	147060450	3634.16
6.10	250477855	3770.10
6.18	436850217	3811.70
6.42	231282035	3504.58
6.89	210519983	4025.34

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011213.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 15:34
Operator : NT
Sample : TOX-5
Misc : ECD12068
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:43:55 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Thu Nov 01 15:52:20 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
	Target Compounds						
23)	L2 Toxaphene	5.328	5.652	39943674	323.6E6	8640.129m	7671.612m
24)	L2 Toxaphene-2	5.600	6.098f	115.0E6	579.1E6	9076.451m	8418.929m
25)	L2 Toxaphene-3	5.878	6.182f	75975130	987.6E6	9291.108m	8316.366m
26)	L2 Toxaphene-4	6.161	6.418f	65388721	571.4E6	9671.332m	8366.199m
27)	L2 Toxaphene-5	6.246	6.894f	75057377	470.3E6	9327.207m	8684.452m
	Sum Toxaphene			371.4E6	2932.0E6	46006.227	41457.557
Average	Toxaphene					9201.245	8291.511
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

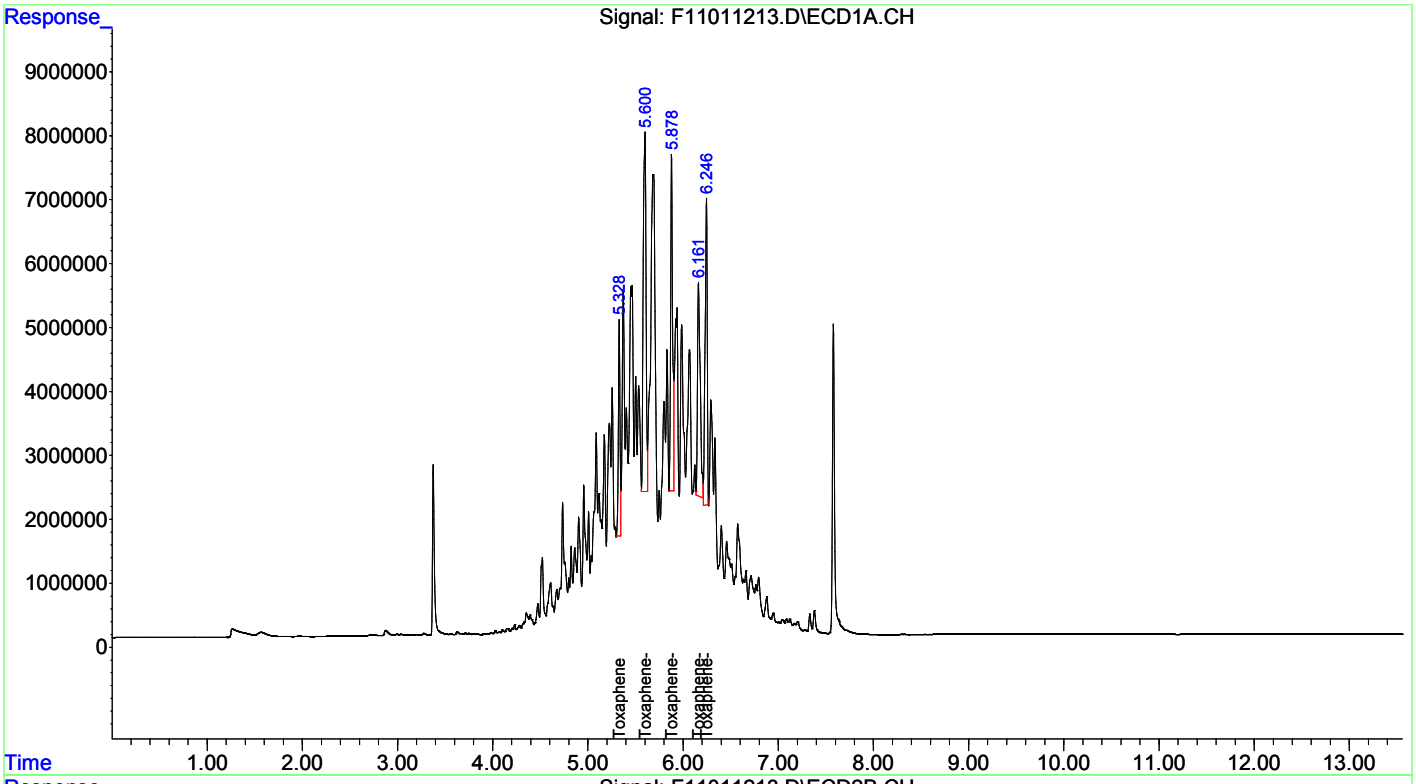
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

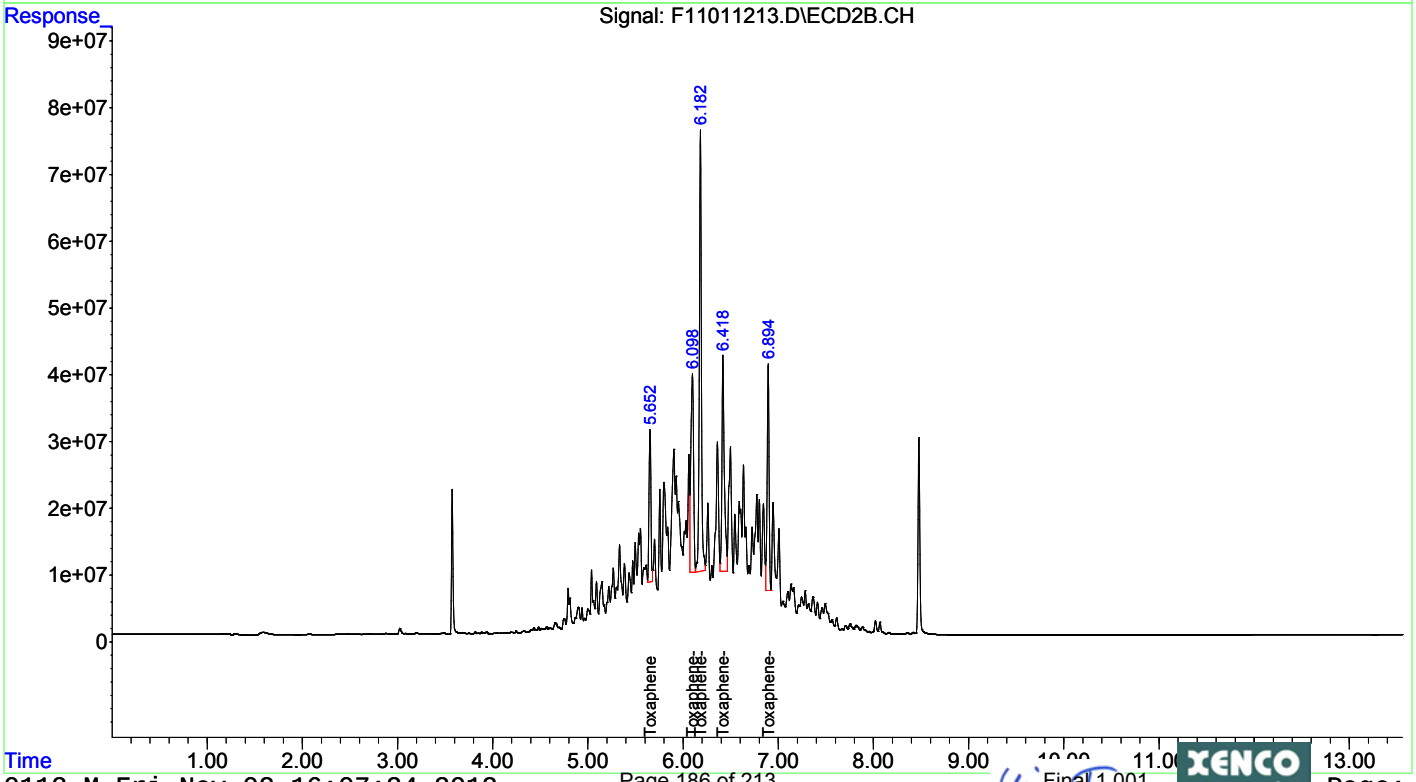
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011213.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 15:34
Operator : NT
Sample : TOX-5
Misc : ECD12068
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:43:55 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Thu Nov 01 15:52:20 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32



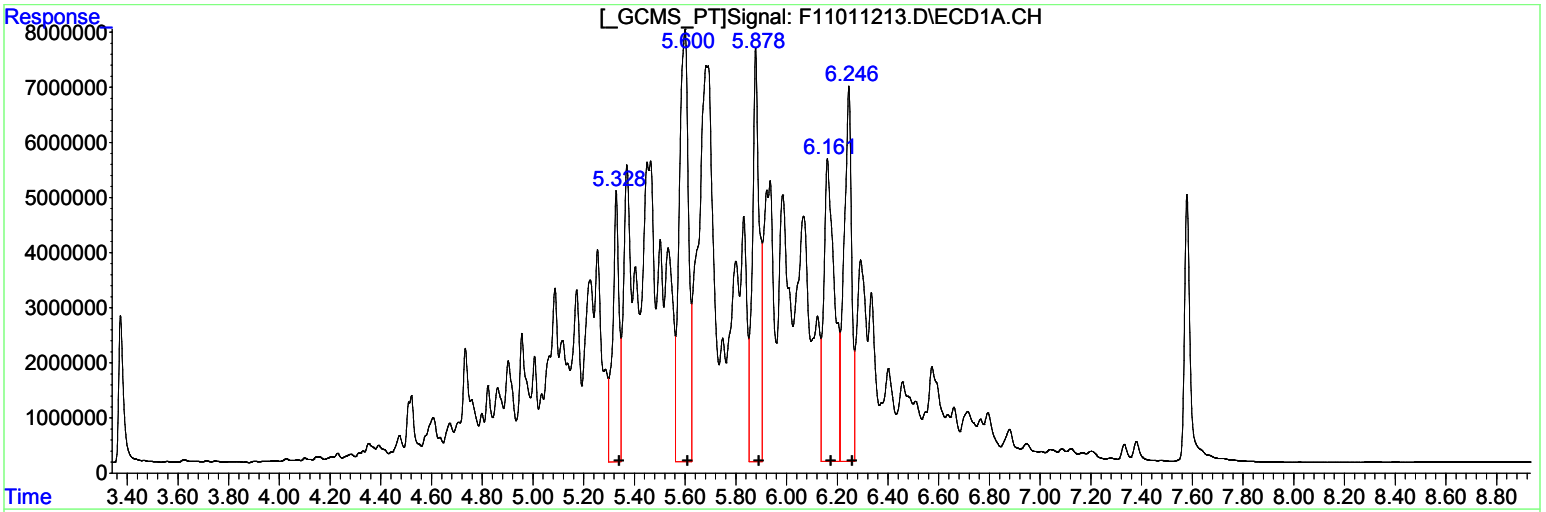


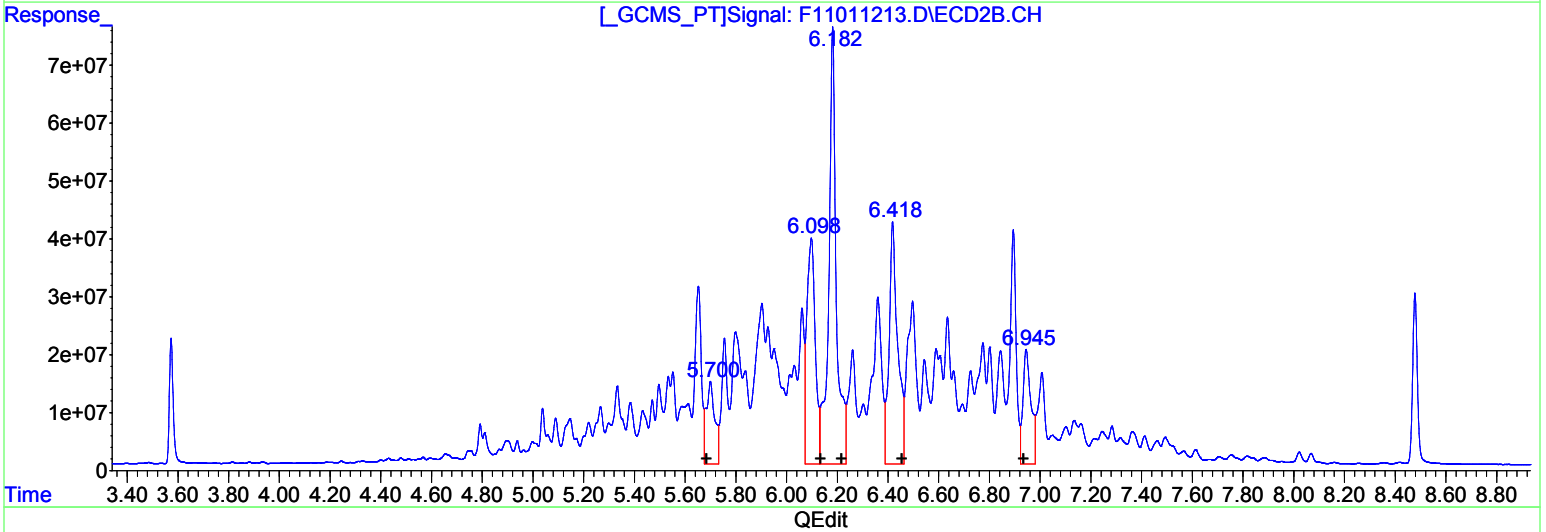
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011213.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Nov 2012 15:34
Operator : NT
Sample   : TOX-5
Misc   : ECD12068
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:42:35 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Thu Nov 01 15:52:20 2012
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

Volume Inj.   : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32   Signal #2 Info : 0.32





QEdit

(23) Toxaphene (L2)

R.T.	Response	Conc
5.33	86642863	18741.53
5.60	200228149	15803.45
5.88	147252044	18007.67
6.16	162138825	23981.18
6.25	145601796	18093.60

(23) Toxaphene #2 (L2)

R.T.	Response	Conc
5.70	335076834	7942.76
6.10	902943189	13126.25
6.18	1572685377	13242.71
6.42	994356707	14559.67
6.95	435010285	8033.64

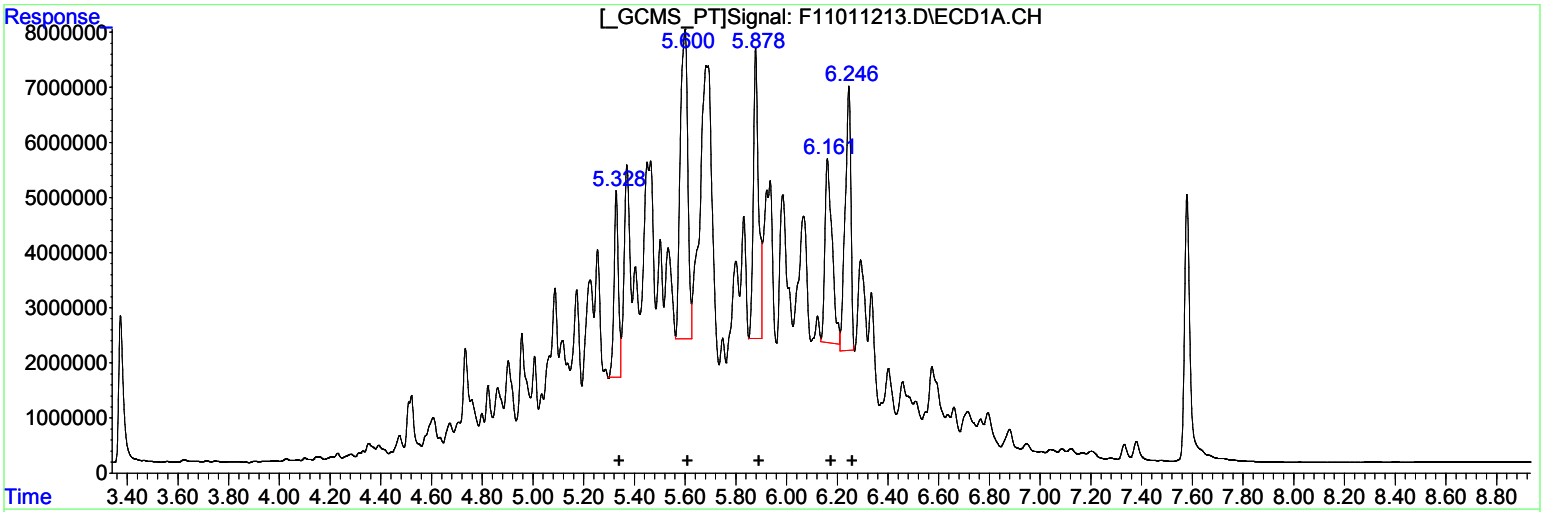
(+) = Expected Retention Time

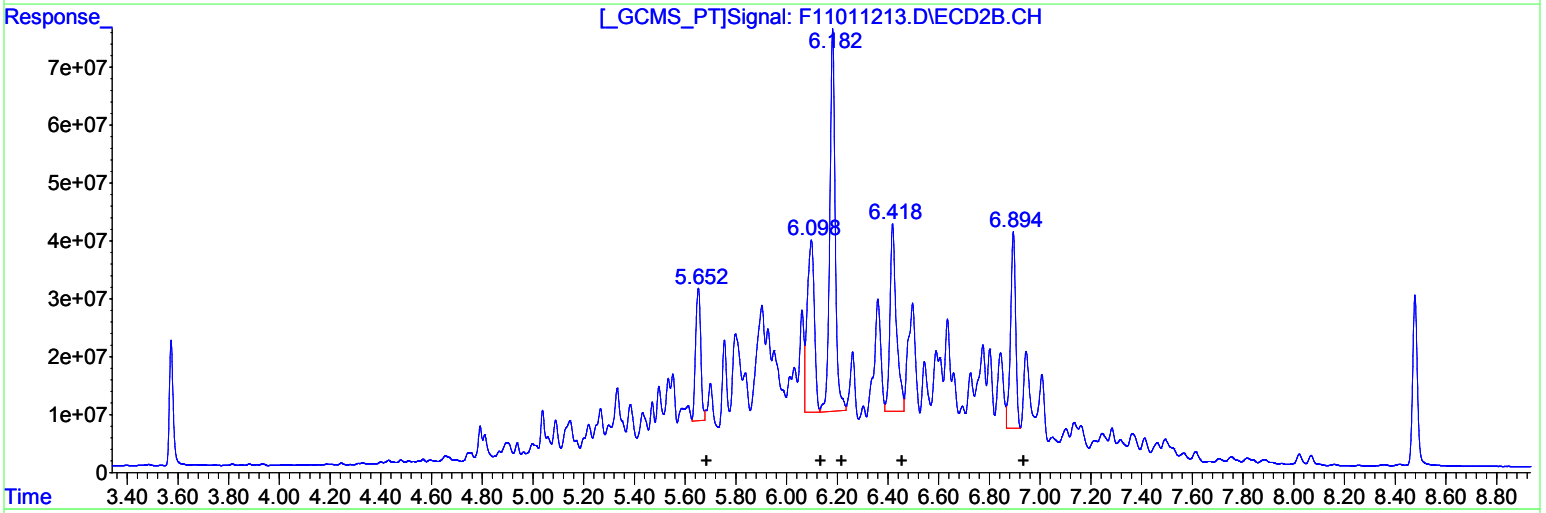
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011213.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 15:34
Operator : NT
Sample : TOX-5
Misc : ECD12068
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:42:35 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Thu Nov 01 15:52:20 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





QEdit

(23) Toxaphene (L2)

R.T.	Response	Conc
5.33	39943674	8640.13
5.60	114997697	9076.45
5.88	75975130	9291.11
6.16	65388721	9671.33
6.25	75057377	9327.21

(23) Toxaphene #2 (L2)

R.T.	Response	Conc
5.65	323638270	7671.61
6.10	579130738	8418.93
6.18	987639432	8316.37
6.42	571371765	8366.20
6.89	470250876	8684.45

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011214.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 15:52
Operator : NT
Sample : TOX-6
Misc : ECD12069
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:45:18 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:44:12 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
	Target Compounds						
23)	L2 Toxaphene	5.329	5.652	835698	7107033	181.650m	171.635m
24)	L2 Toxaphene-2	5.603	6.099	2085590	10960671	164.382m	161.855m
25)	L2 Toxaphene-3	5.881	6.182	1488630	18770927	181.198m	161.045m
26)	L2 Toxaphene-4	6.164	6.418	1057189	12417493	155.285m	183.478m
27)	L2 Toxaphene-5	6.250	6.896	1277970	8208038	160.021m	155.182m
	Sum Toxaphene			6745076	57464162	842.536	833.194
Average	Toxaphene					168.507	166.639
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

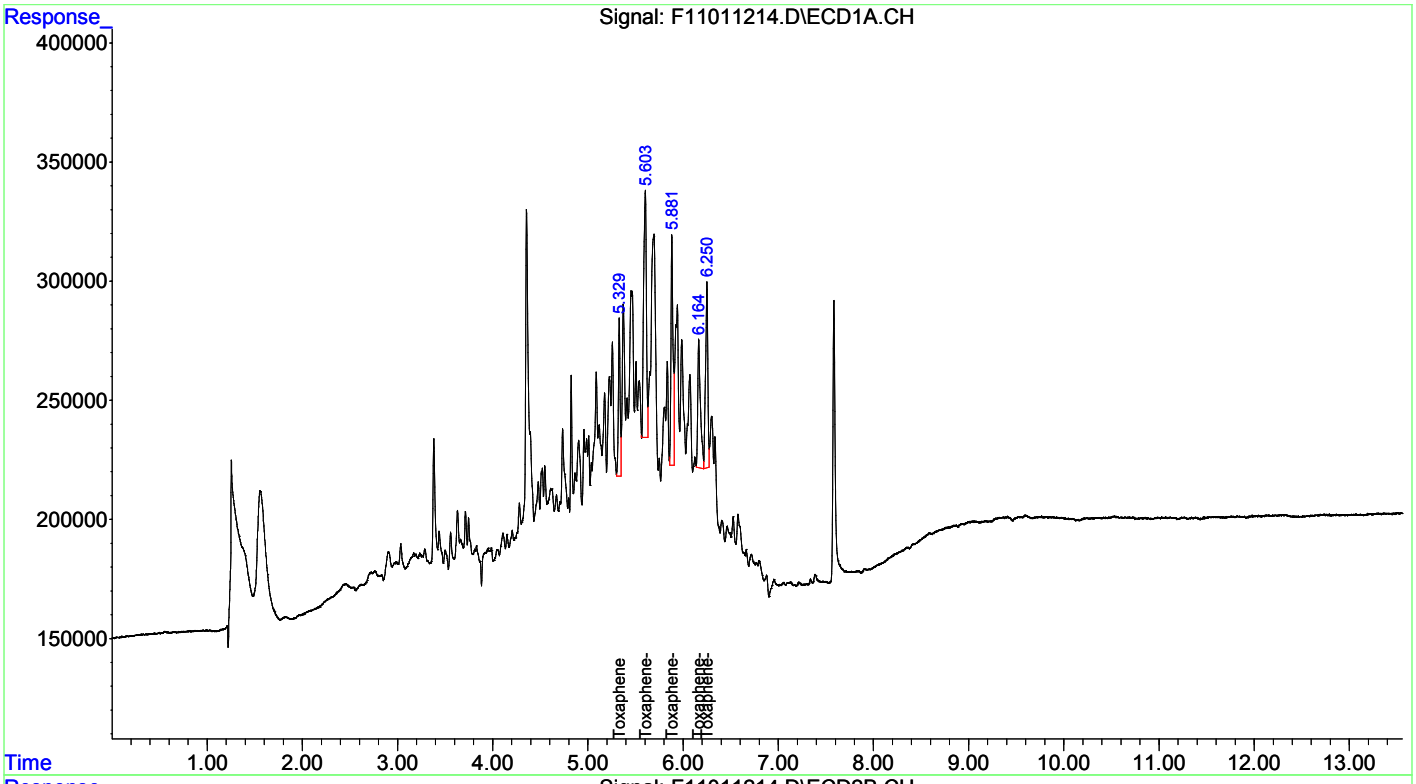
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

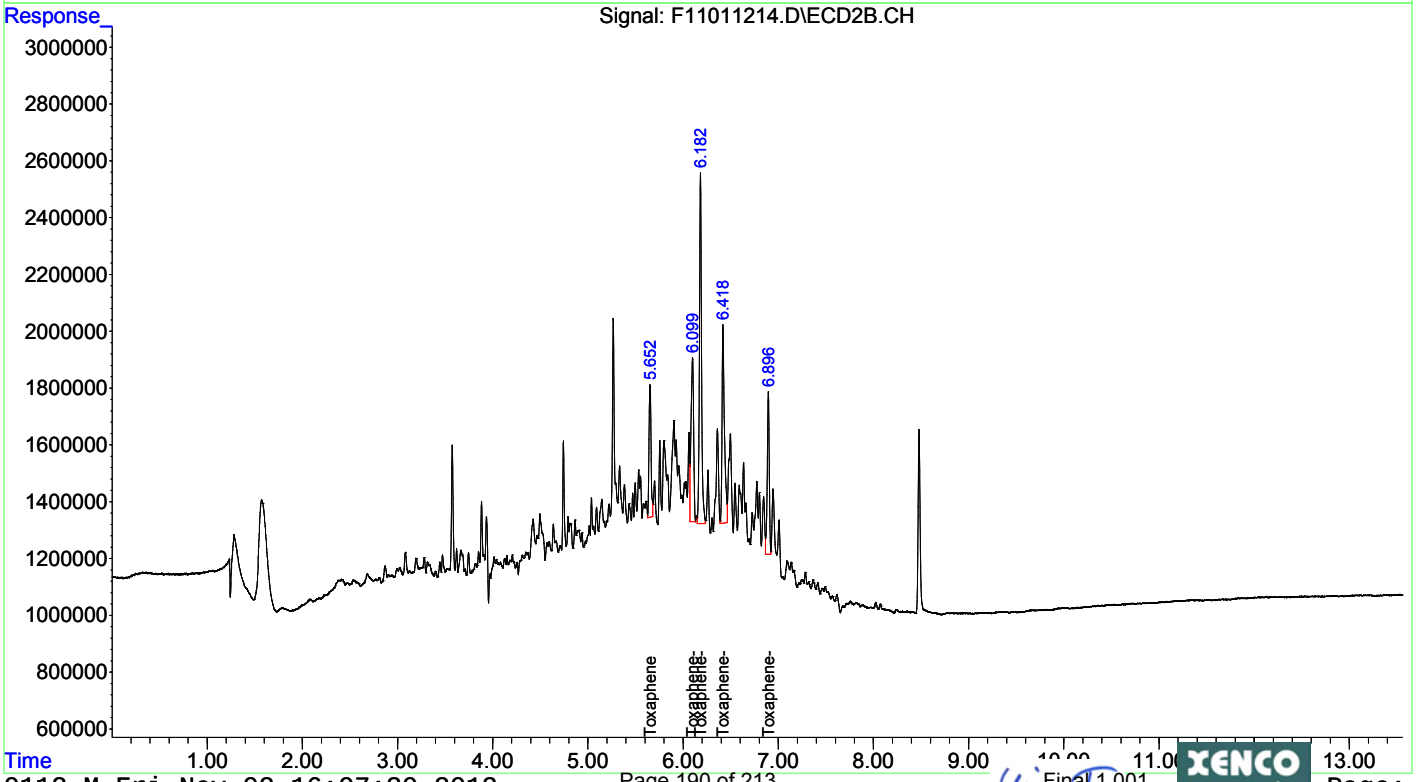
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011214.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 15:52
Operator : NT
Sample : TOX-6
Misc : ECD12069
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:45:18 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:44:12 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32



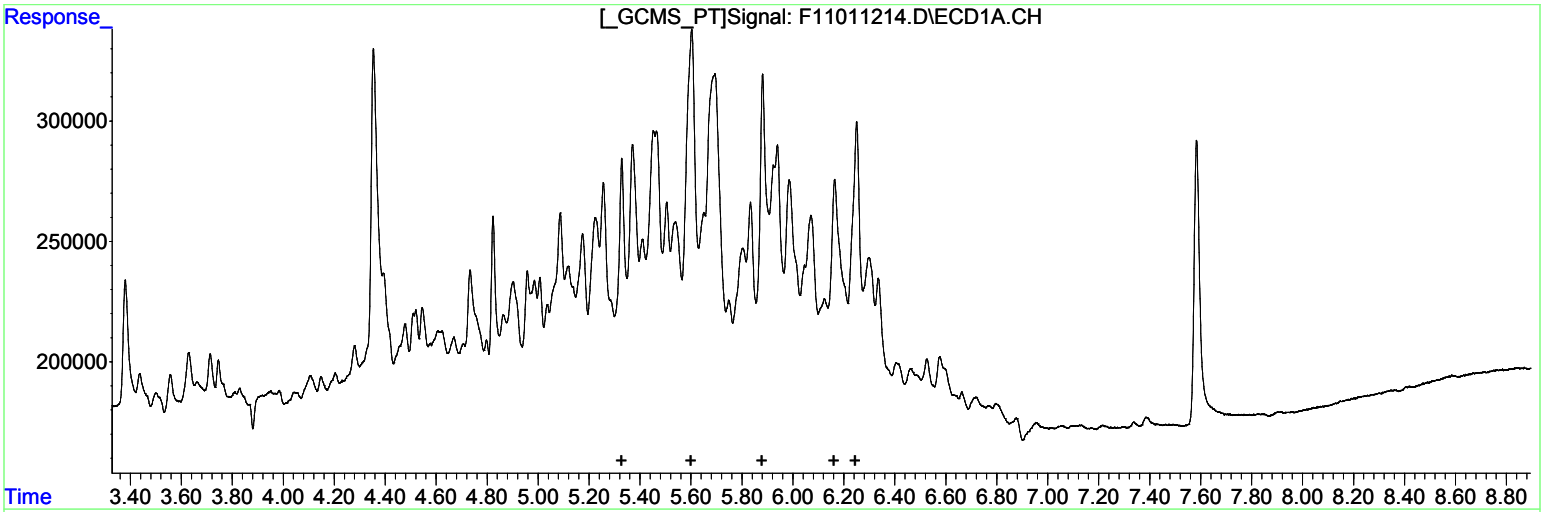


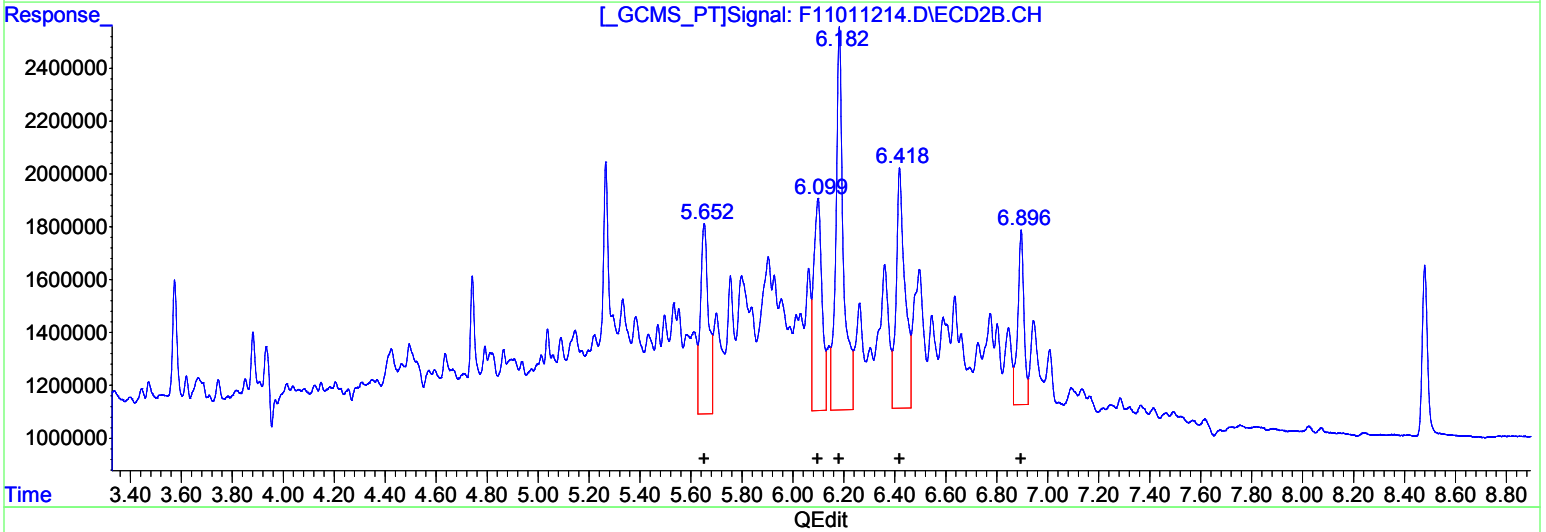
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011214.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Nov 2012 15:52
Operator : NT
Sample   : TOX-6
Misc   : ECD12069
ALS Vial : 14   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:44:19 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:44:12 2012
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

Volume Inj.   : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32   Signal #2 Info : 0.32





QEdit

(23) Toxaphene (L2)

R.T.	Response	Conc
0.00	0	0.00
0.00	0	0.00
0.00	0	0.00
0.00	0	0.00
0.00	0	0.00

(23) Toxaphene #2 (L2)

R.T.	Response	Conc
5.65	15964794	385.55
6.10	18501121	273.20
6.18	30237474	259.42
6.42	21839561	322.70
6.90	11216308	212.06

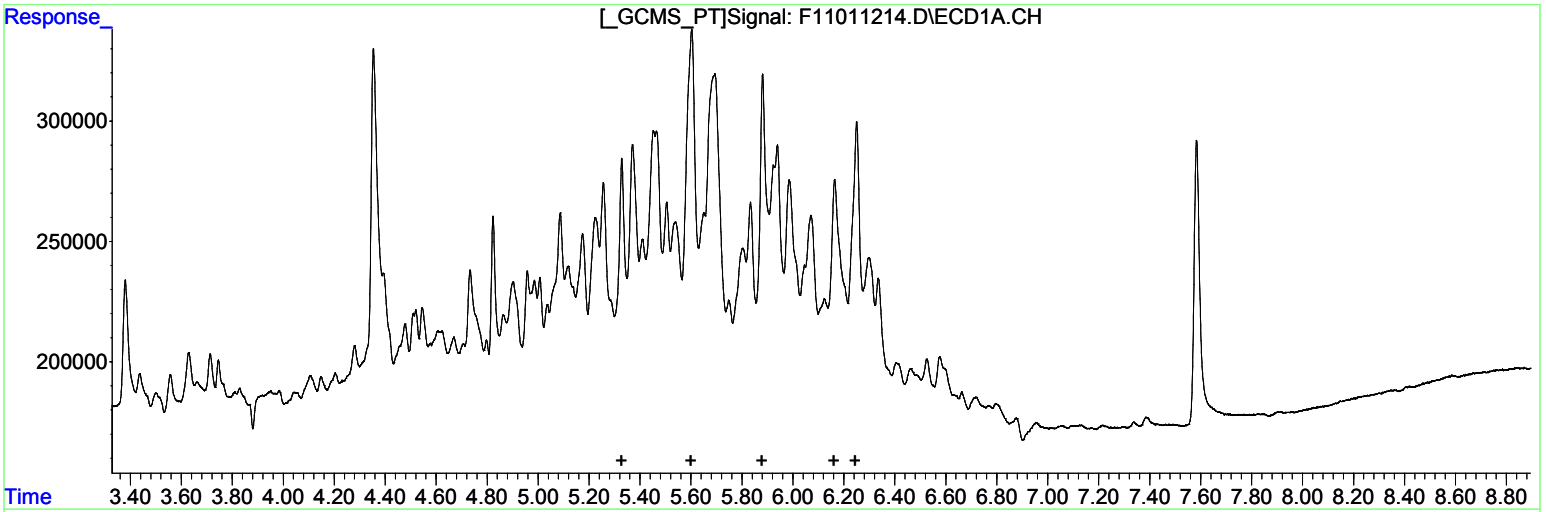
(+) = Expected Retention Time

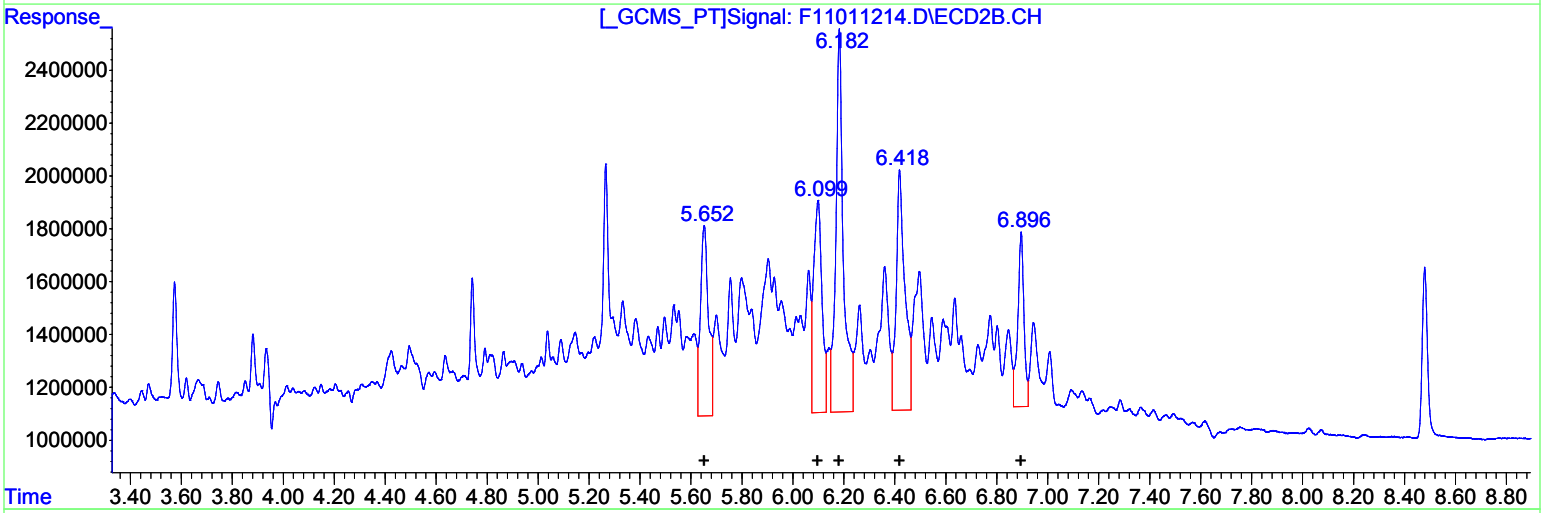
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011214.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Nov 2012 15:52
Operator : NT
Sample   : TOX-6
Misc   : ECD12069
ALS Vial : 14   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:44:19 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:44:12 2012
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

Volume Inj.   : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32   Signal #2 Info : 0.32





(23) Toxaphene (L2)

R.T.	Response	Conc
0.00	0	0.00
0.00	0	0.00
0.00	0	0.00
0.00	0	0.00
0.00	0	0.00

(23) Toxaphene #2 (L2)

R.T.	Response	Conc
5.65	15964794	385.55
6.10	18501121	273.20
6.18	30237474	259.42
6.42	21839561	322.70
6.90	11216308	212.06

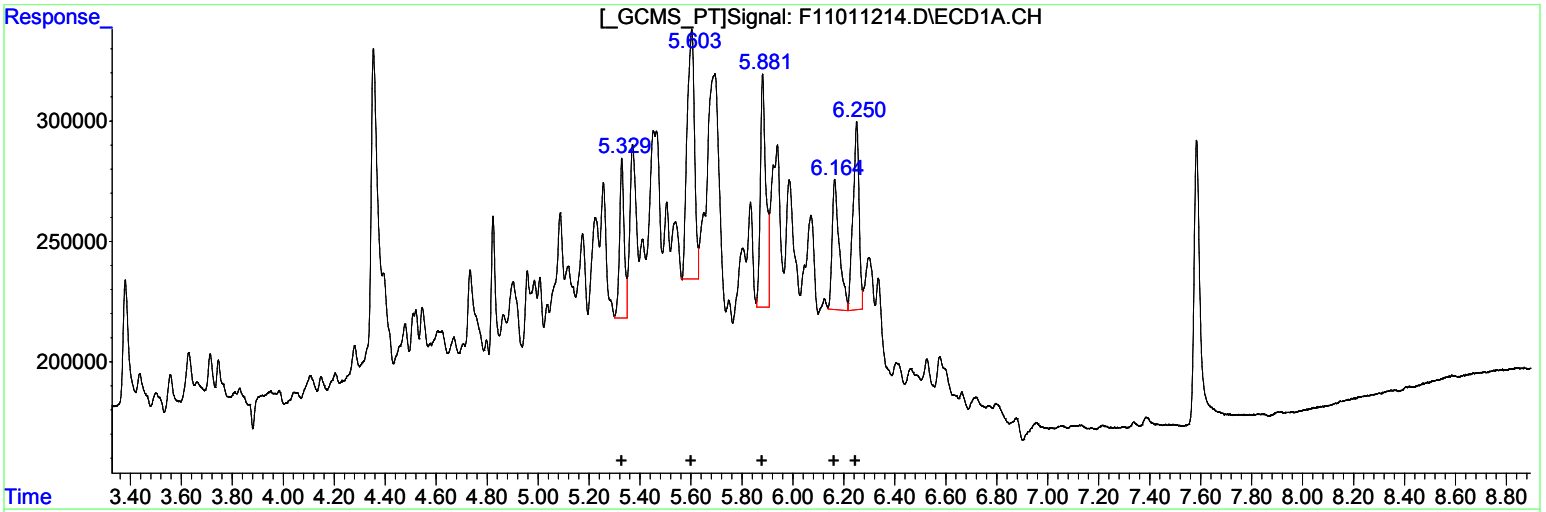
(+) = Expected Retention Time

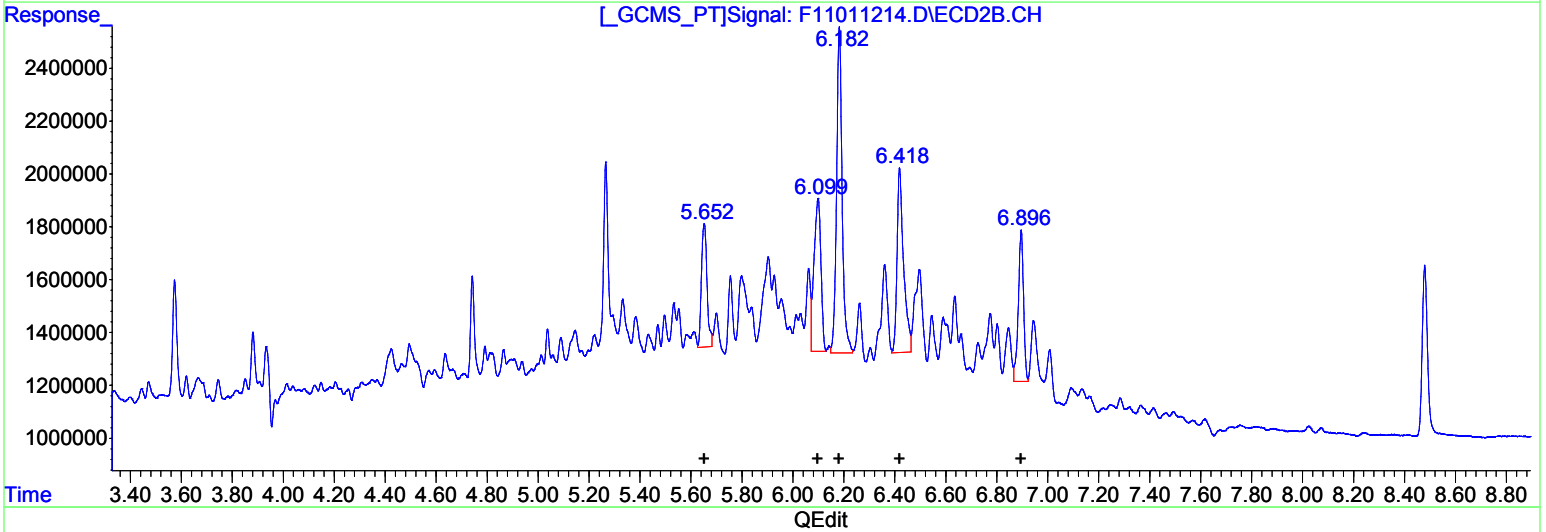
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011214.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Nov 2012 15:52
Operator : NT
Sample   : TOX-6
Misc   : ECD12069
ALS Vial : 14   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:44:19 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:44:12 2012
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

Volume Inj.   : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32   Signal #2 Info : 0.32





(23) Toxaphene #2 (L2)

R.T.	Response	Conc
5.33	835698	181.65
5.60	2085590	164.38
5.88	1488630	181.20
6.16	1057189	155.29
6.25	1277970	160.02

(23) Toxaphene #2 (L2)

R.T.	Response	Conc
5.65	7107033	171.64
6.10	10960671	161.85
6.18	18770927	161.04
6.42	12417493	183.48
6.90	8208038	155.18

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011215.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 16:09
Operator : NT
Sample : TOX-3 ICV
Misc : ECD12077
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:50:38 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:49:24 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
1) S	Tetrachlo...	3.378	3.574	8482033	54800450	18.233	19.981
	Spiked Amount	50.000	Range 30 - 50		Recovery =	36.47%	39.96%
22) S	Decachlor...	7.583	8.479	18007478	91462426	37.503	37.966
	Spiked Amount	50.000			Recovery =	75.01%	75.93%
	Target Compounds						
23) L2	Toxaphene	5.329	5.652	9728123	72740861	2128.376m	1975.363m
24) L2	Toxaphene-2	5.601	6.098	25057686	125.1E6	2020.502m	2045.942m
25) L2	Toxaphene-3	5.879	6.181	16108185	217.0E6	1969.252m	2080.063m
26) L2	Toxaphene-4	6.162	6.418	13258015	113.5E6	1988.458m	1891.081m
27) L2	Toxaphene-5	6.248	6.894	15079436	101.9E6	1991.558m	2090.588m
	Sum Toxaphene			79231446	630.2E6	10098.146	10083.037
Average	Toxaphene					2019.629	2016.607
	Sum Chlordane			0	0	N.D.	N.D.
Average	Chlordane					0.000	0.000

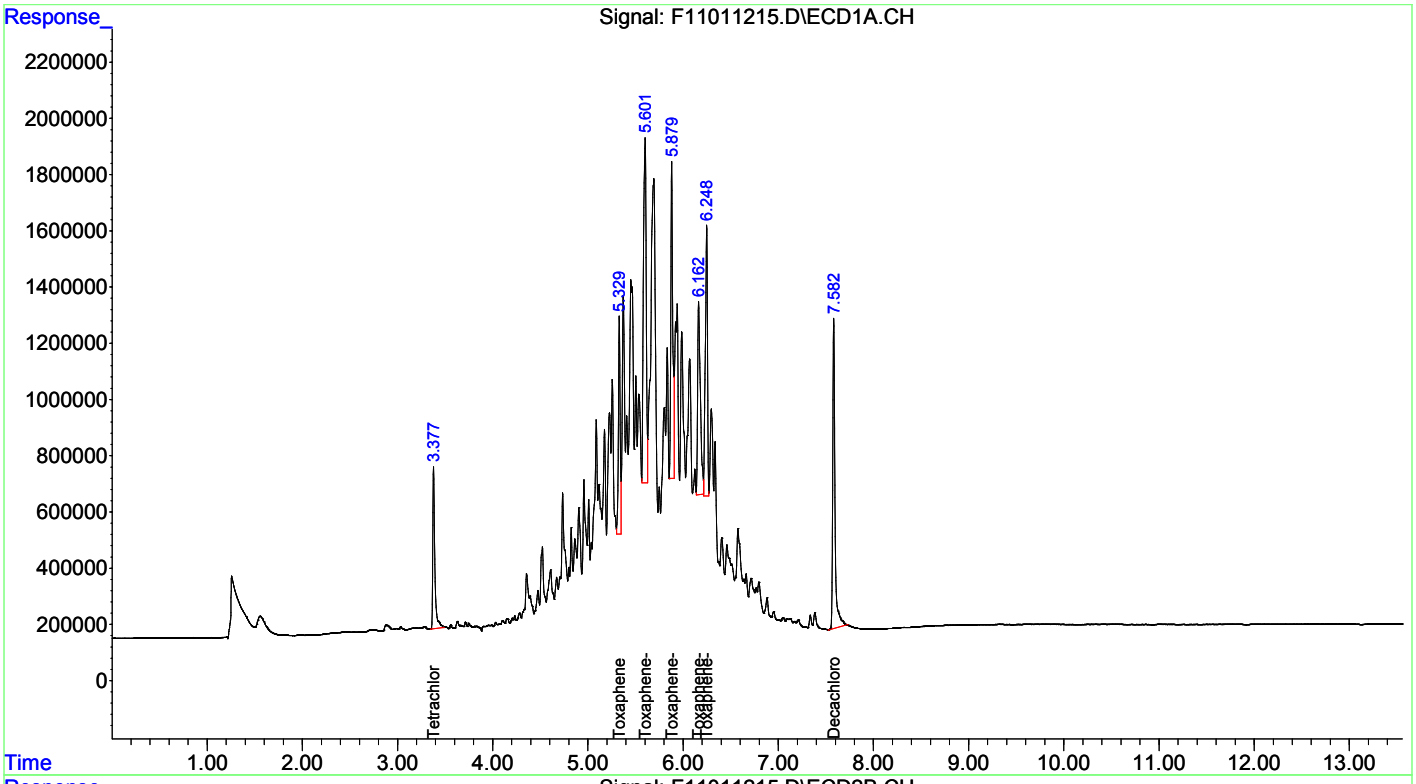
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

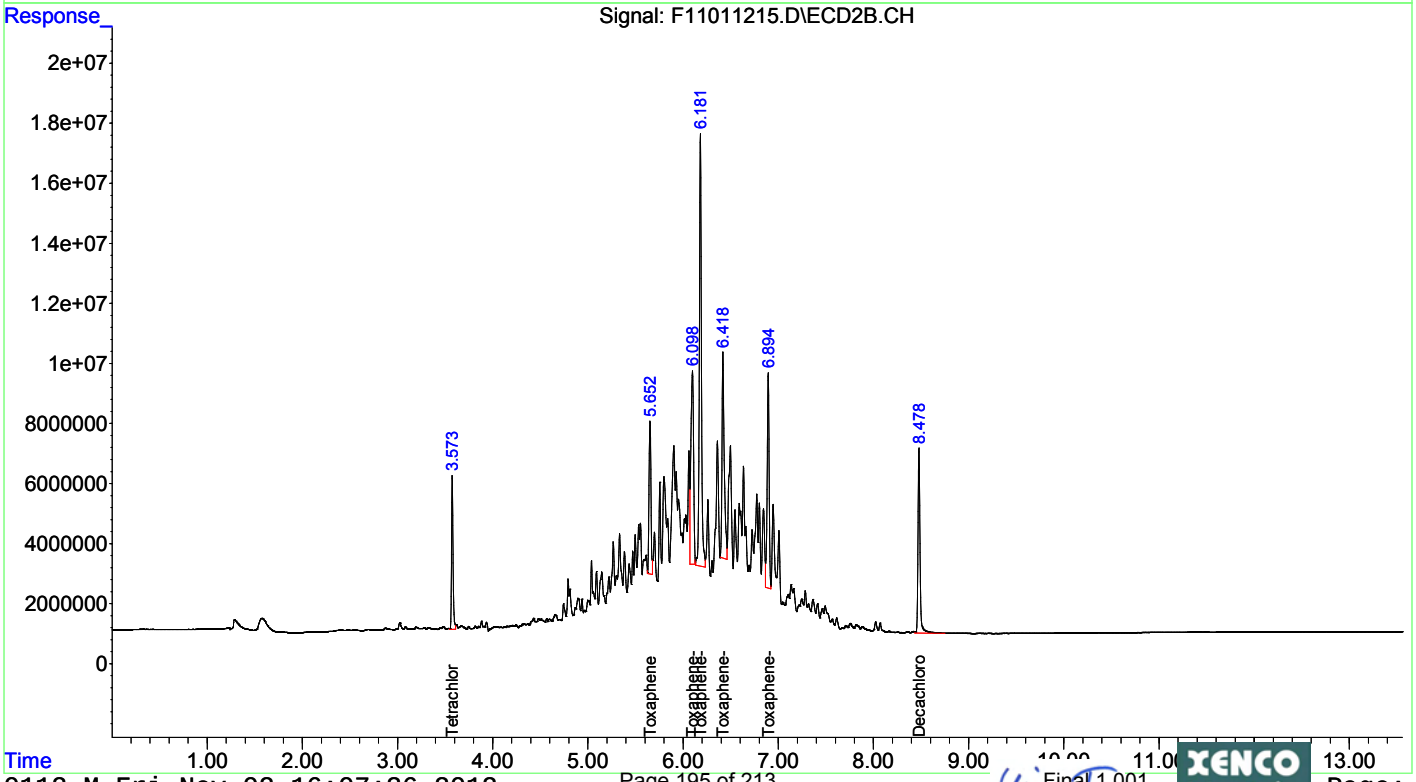
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011215.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 16:09
Operator : NT
Sample : TOX-3 ICV
Misc : ECD12077
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:50:38 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:49:24 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32



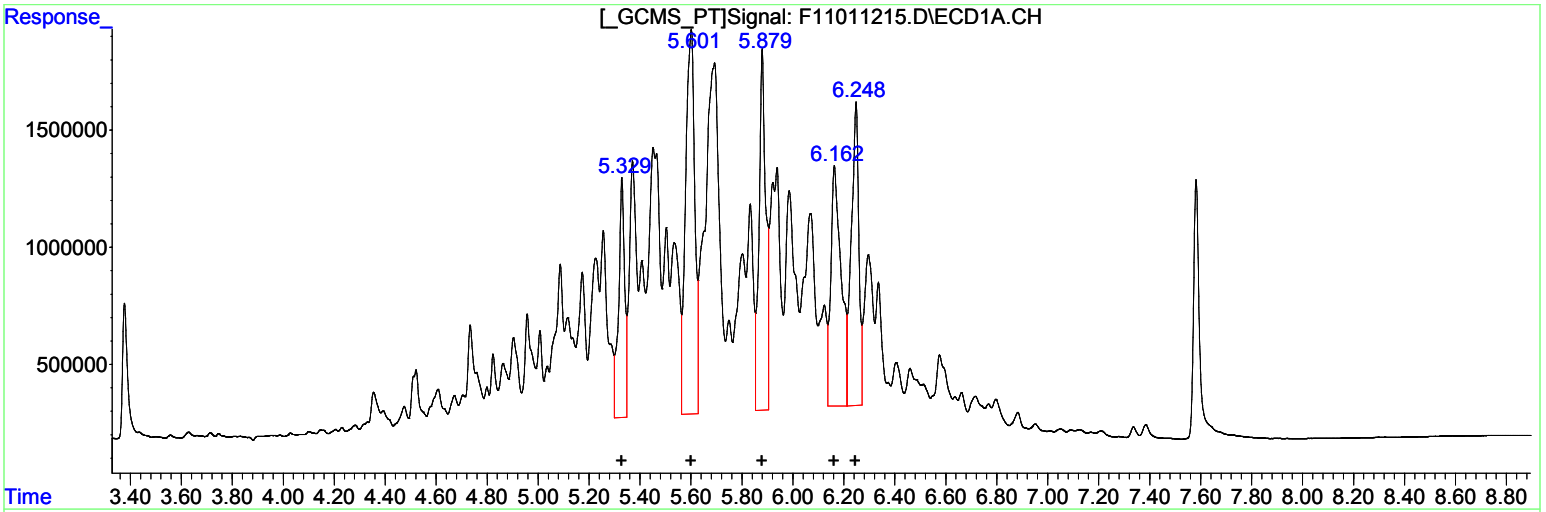


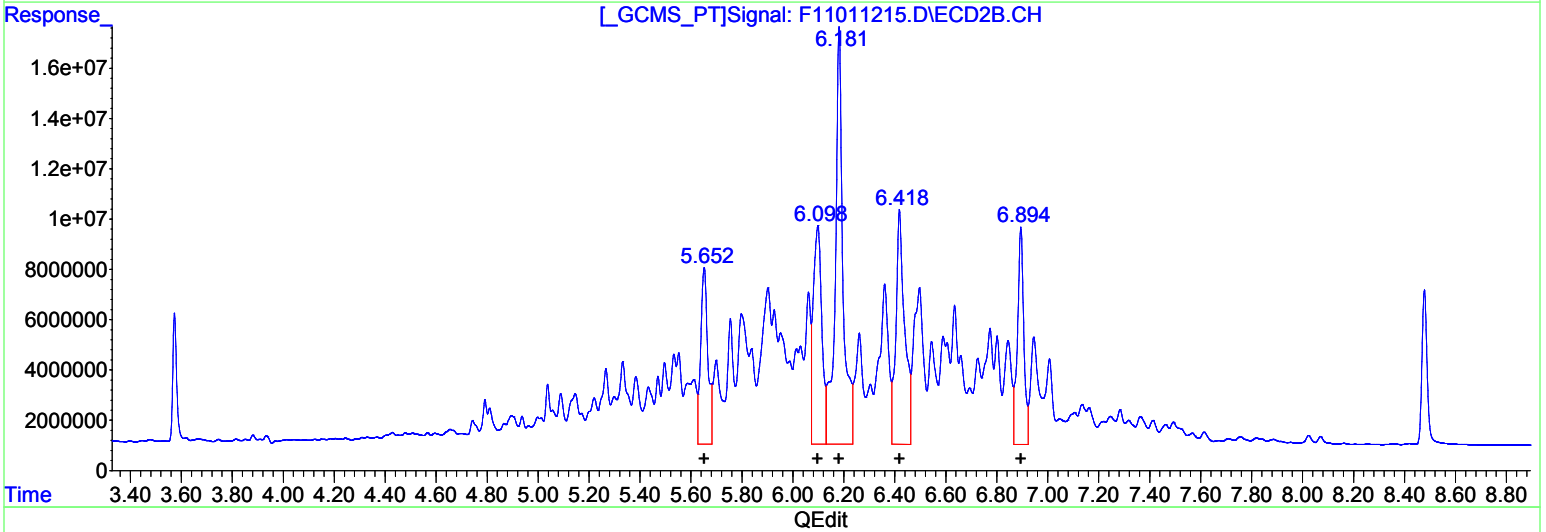
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011215.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Nov 2012 16:09
Operator : NT
Sample   : TOX-3 ICV
Misc   : ECD12077
ALS Vial : 15   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:49:49 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:49:24 2012
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

Volume Inj.   : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32   Signal #2 Info : 0.32





QEdit

(23) Toxaphene (L2)

R.T.	Response	Conc
5.33	17166408	3755.77
5.60	41165151	3319.31
5.88	28637259	3500.95
6.16	29114132	4366.58
6.25	26902436	3553.03

(23) Toxaphene #2 (L2)

R.T.	Response	Conc
5.65	138856161	3770.80
6.10	203969378	3334.73
6.18	355002245	3403.32
6.42	224778238	3745.96
6.89	152493303	3128.34

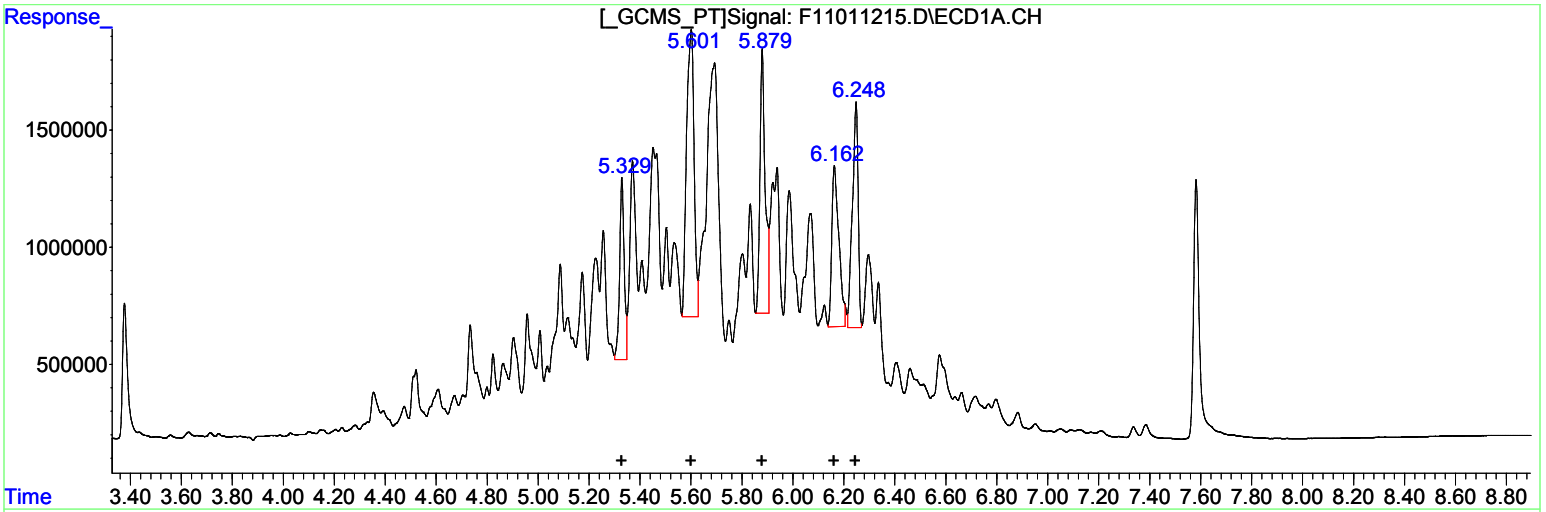
(+) = Expected Retention Time

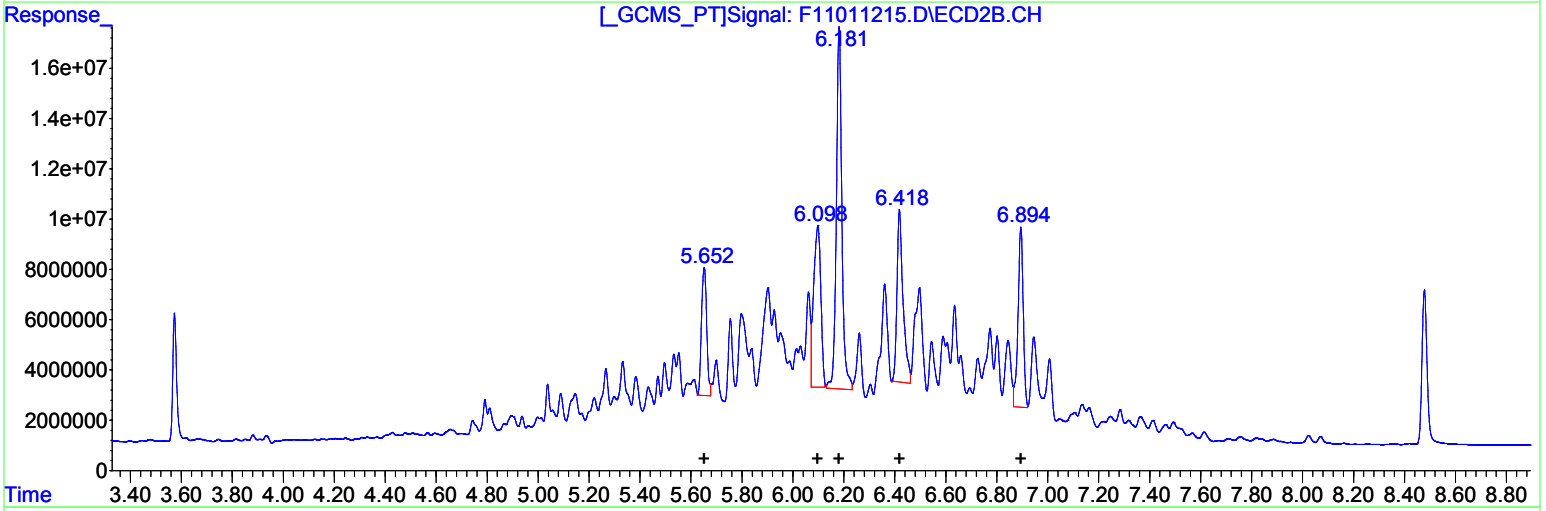
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011215.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Nov 2012 16:09
Operator : NT
Sample   : TOX-3 ICV
Misc   : ECD12077
ALS Vial : 15   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:49:49 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:49:24 2012
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

Volume Inj.   : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32   Signal #2 Info : 0.32





QEdit

(23) Toxaphene #2 (L2)

R.T.	Response	Conc
5.33	9728123	2128.38
5.60	25057686	2020.50
5.88	16108185	1969.25
6.16	13258015	1988.46
6.25	15079436	1991.56

(23) Toxaphene #2 (L2)

R.T.	Response	Conc
5.65	72740861	1975.36
6.10	125140459	2045.94
6.18	216972352	2080.06
6.42	113475261	1891.08
6.89	101907191	2090.59

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011216.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 16:27
Operator : NT
Sample : CHLOR-1
Misc : ECD12070
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:54:45 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:54:20 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
	Target Compounds						
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
28) L1	Chlordane	4.152	4.400	965094	6111063	49.082	45.037
29) L1	Chlordane-2	4.207	4.502	1627845	11749808	47.326	47.848
30) L1	Chlordane-3	4.483	4.826	1145819	6503608	48.499m	47.785
31) L1	Chlordane-4	4.891	5.294	3193436	21437612	46.750	48.945
32) L1	Chlordane-5	4.983	5.406	4674627	19878893	46.590	49.449
	Sum Chlordane			11606821	65680985	238.248	239.063
Average	Chlordane					47.650	47.813

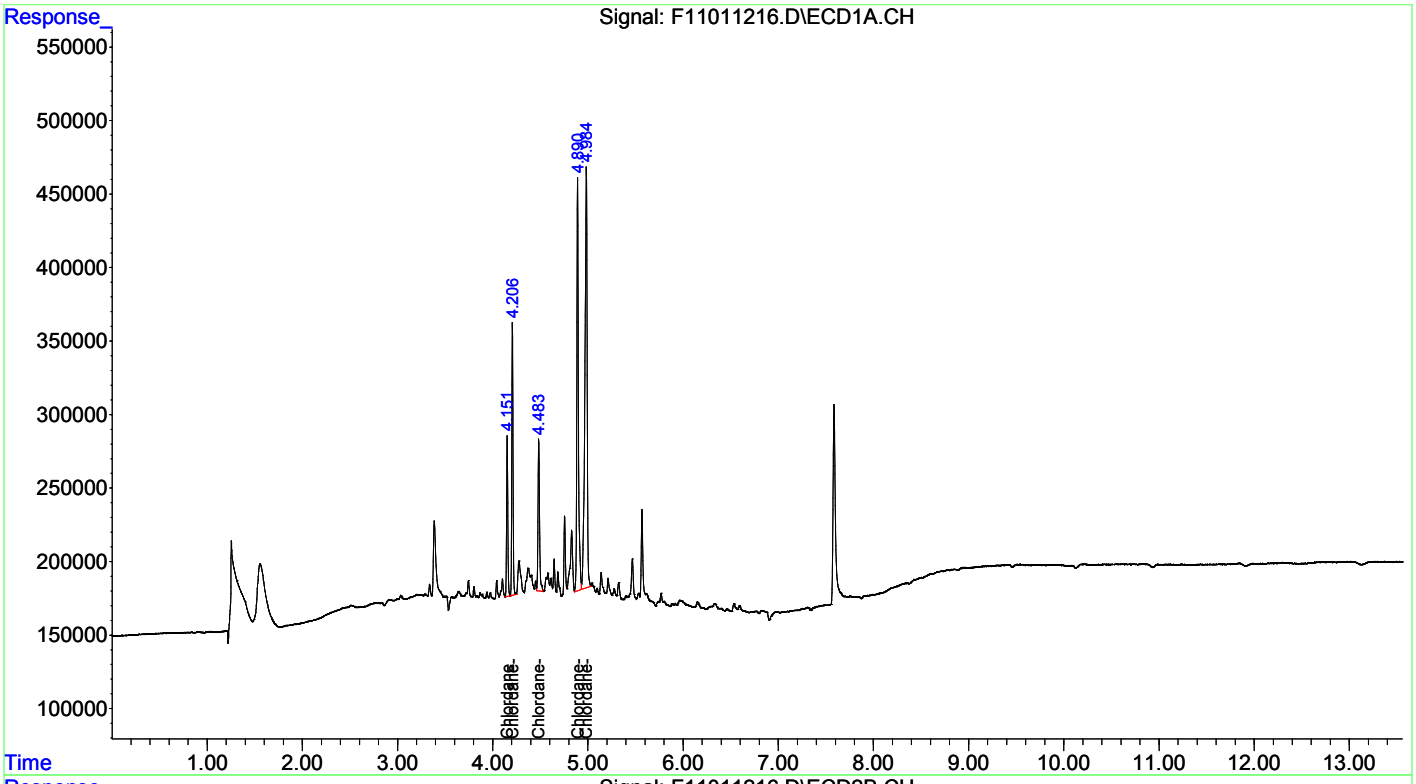
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

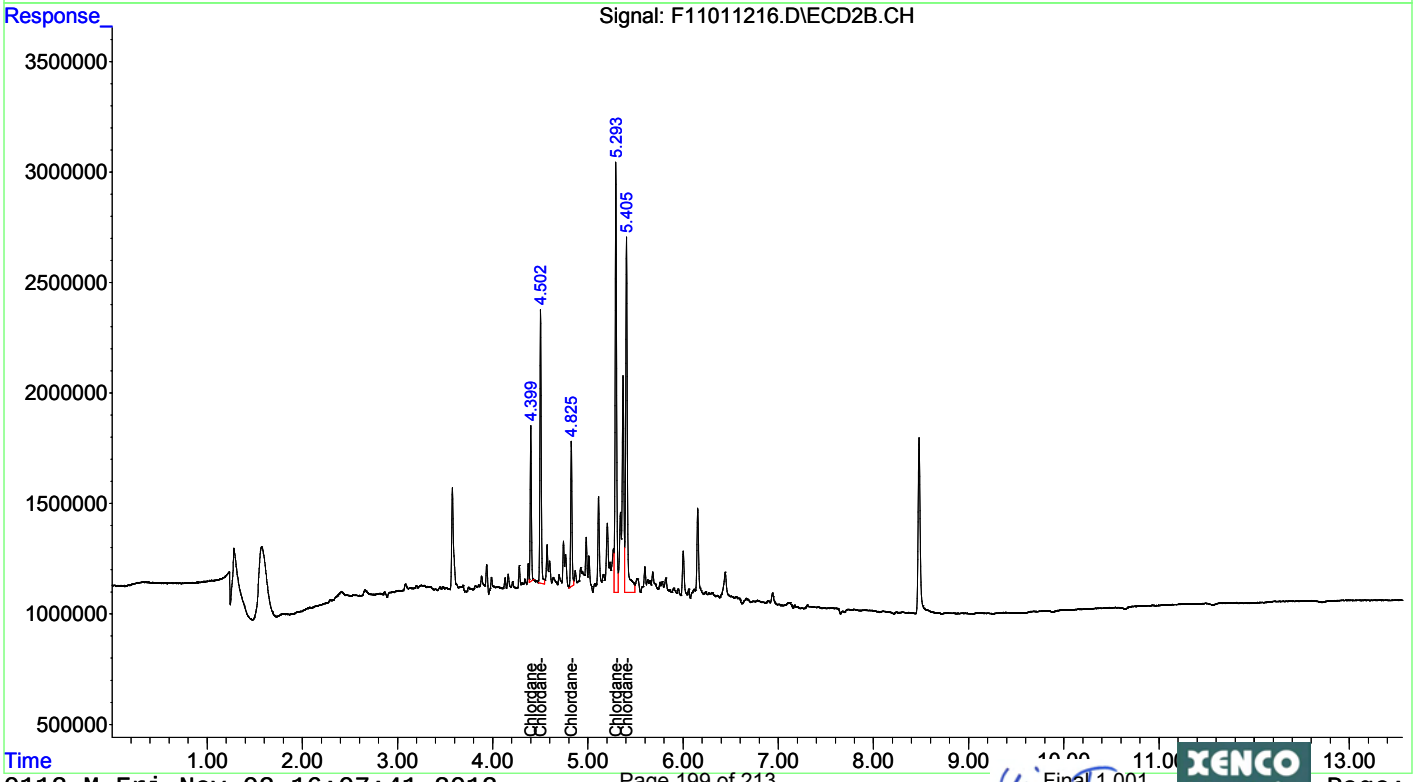
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011216.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 16:27
Operator : NT
Sample : CHLOR-1
Misc : ECD12070
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:54:45 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:54:20 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32



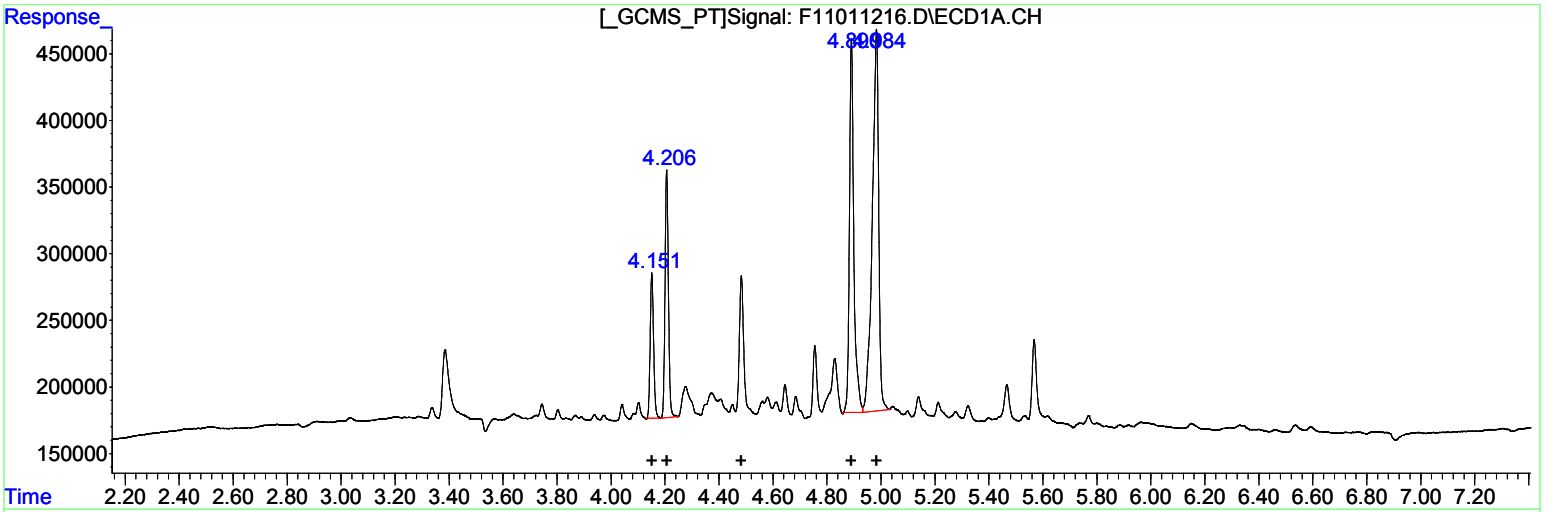


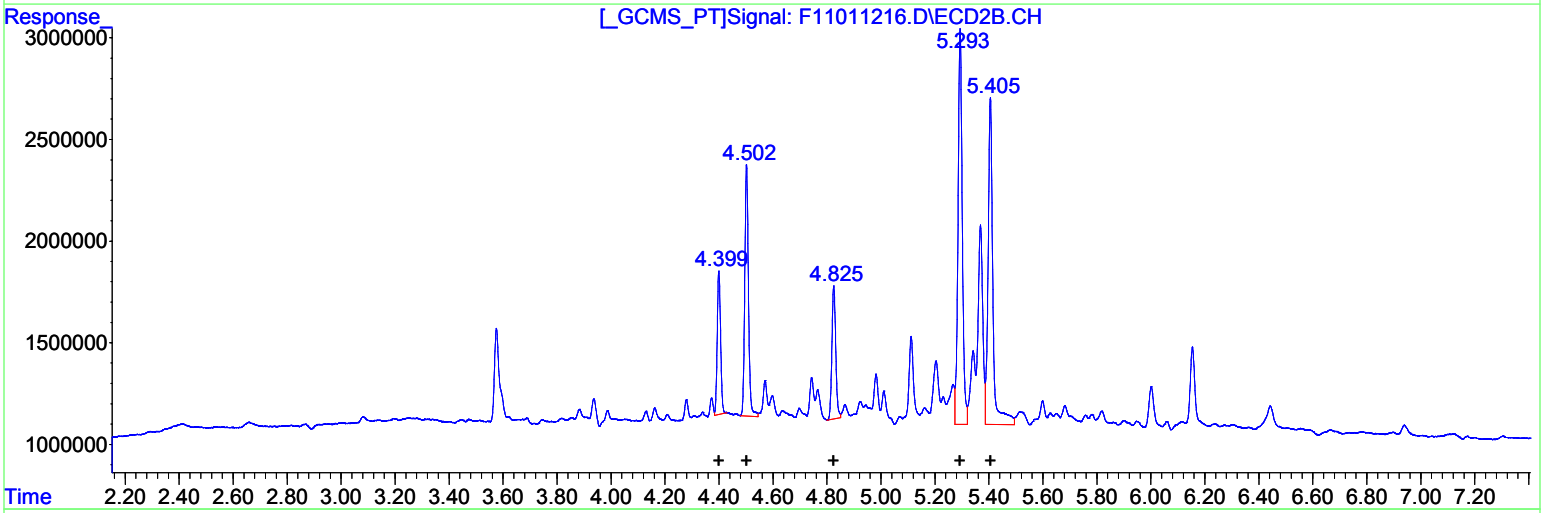
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011216.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 16:27
Operator : NT
Sample : CHLOR-1
Misc : ECD12070
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:54:25 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:54:20 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





QEdit

(28) Chlordane (L1)

R.T.	Response	Conc
4.15	965094	49.08
4.21	1627845	47.33
0.00	0	0.00
4.89	3193436	46.75
4.98	4674627	46.59

(28) Chlordane #2 (L1)

R.T.	Response	Conc
4.40	6111063	45.04
4.50	11749808	47.85
4.83	6503608	47.79
5.29	21437612	48.94
5.41	19878893	49.45

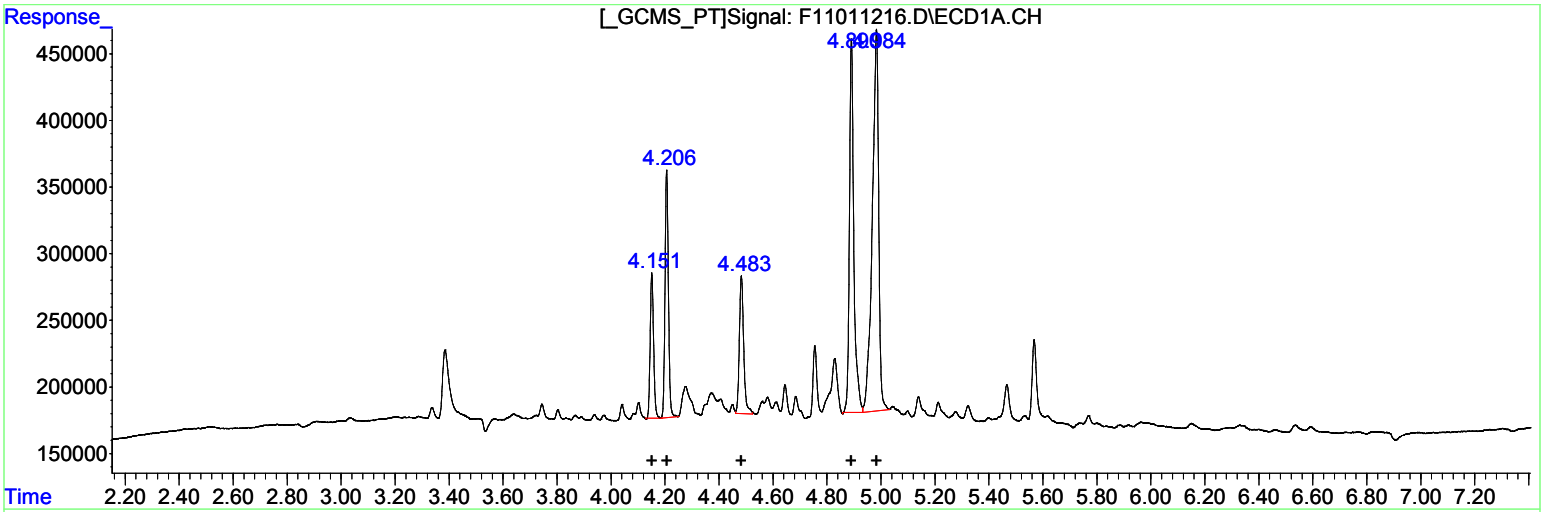
(+) = Expected Retention Time

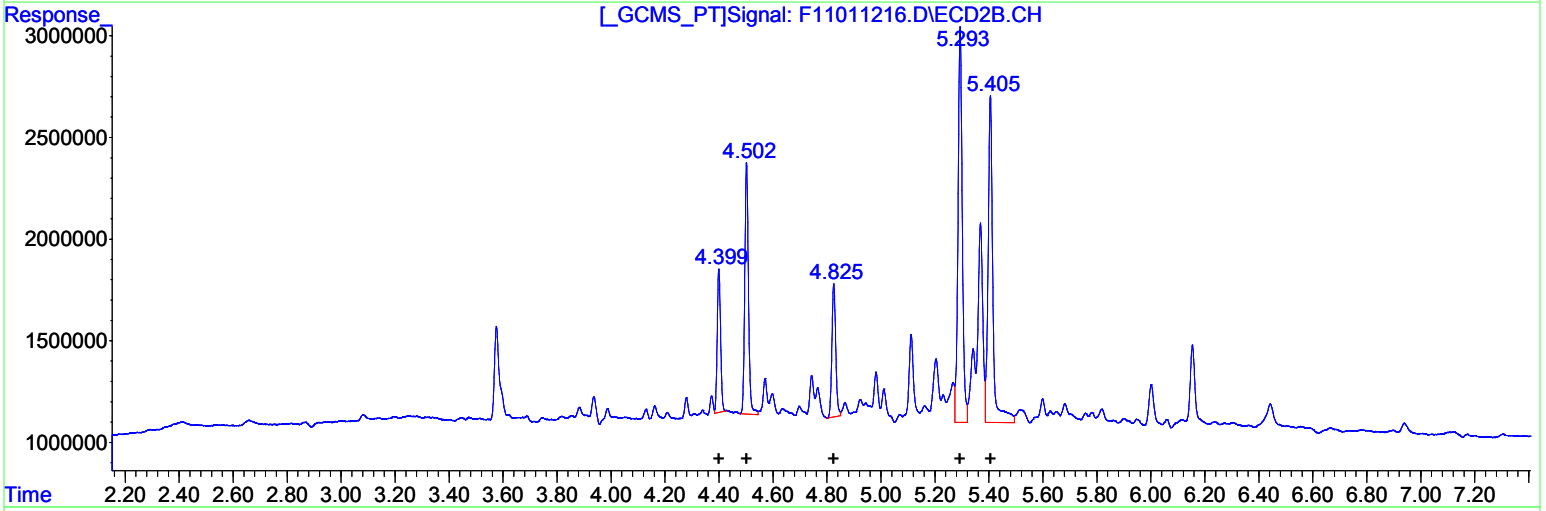
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011216.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Nov 2012 16:27
Operator : NT
Sample   : CHLOR-1
Misc   : ECD12070
ALS Vial : 16   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:54:25 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:54:20 2012
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

Volume Inj.   : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32   Signal #2 Info : 0.32





QEdit

(28) Chlordane #2 (L1)

R.T.	Response	Conc
4.15	965094	49.08
4.21	1627845	47.33
4.48	1145819	48.50
4.89	3193436	46.75
4.98	4674627	46.59

(28) Chlordane #2 (L1)

R.T.	Response	Conc
4.40	6111063	45.04
4.50	11749808	47.85
4.83	6503608	47.79
5.29	21437612	48.94
5.41	19878893	49.45

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011217.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 16:45
Operator : NT
Sample : CHLOR-2
Misc : ECD12071
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:54:12 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:53:57 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
	Target Compounds						
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
28) L1	Chlordane	4.151	4.400	1836886	12001145	92.460	85.486
29) L1	Chlordane-2	4.206	4.502	3135940	21944274	90.754	87.428
30) L1	Chlordane-3	4.483	4.825	2094759	12268390	87.326	87.349
31) L1	Chlordane-4	4.891	5.294	6291359	39441536	91.004	87.433
32) L1	Chlordane-5	4.983	5.406	9548534	35635625	94.005	85.743
	Sum Chlordane			22907479	121.3E6	455.549	433.439
Average	Chlordane					91.110	86.688

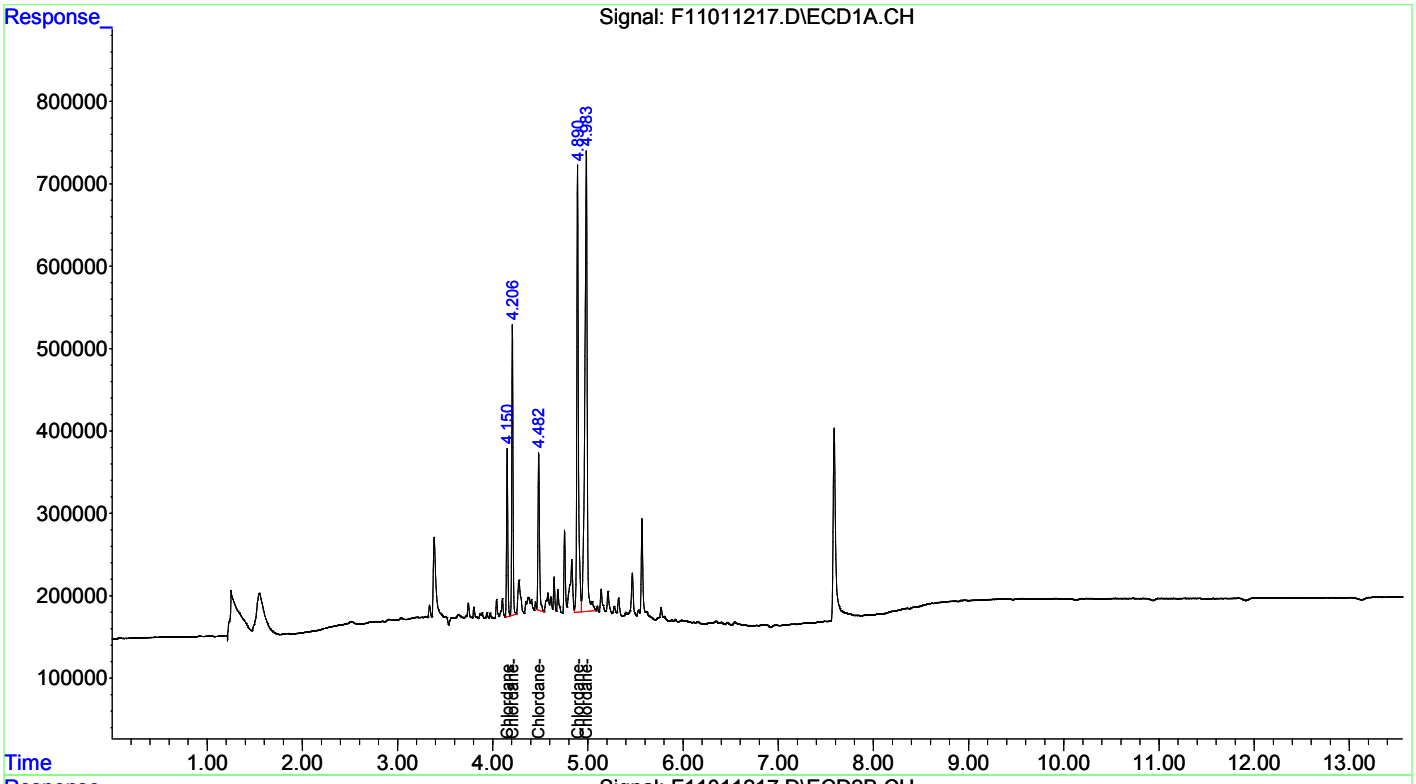
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

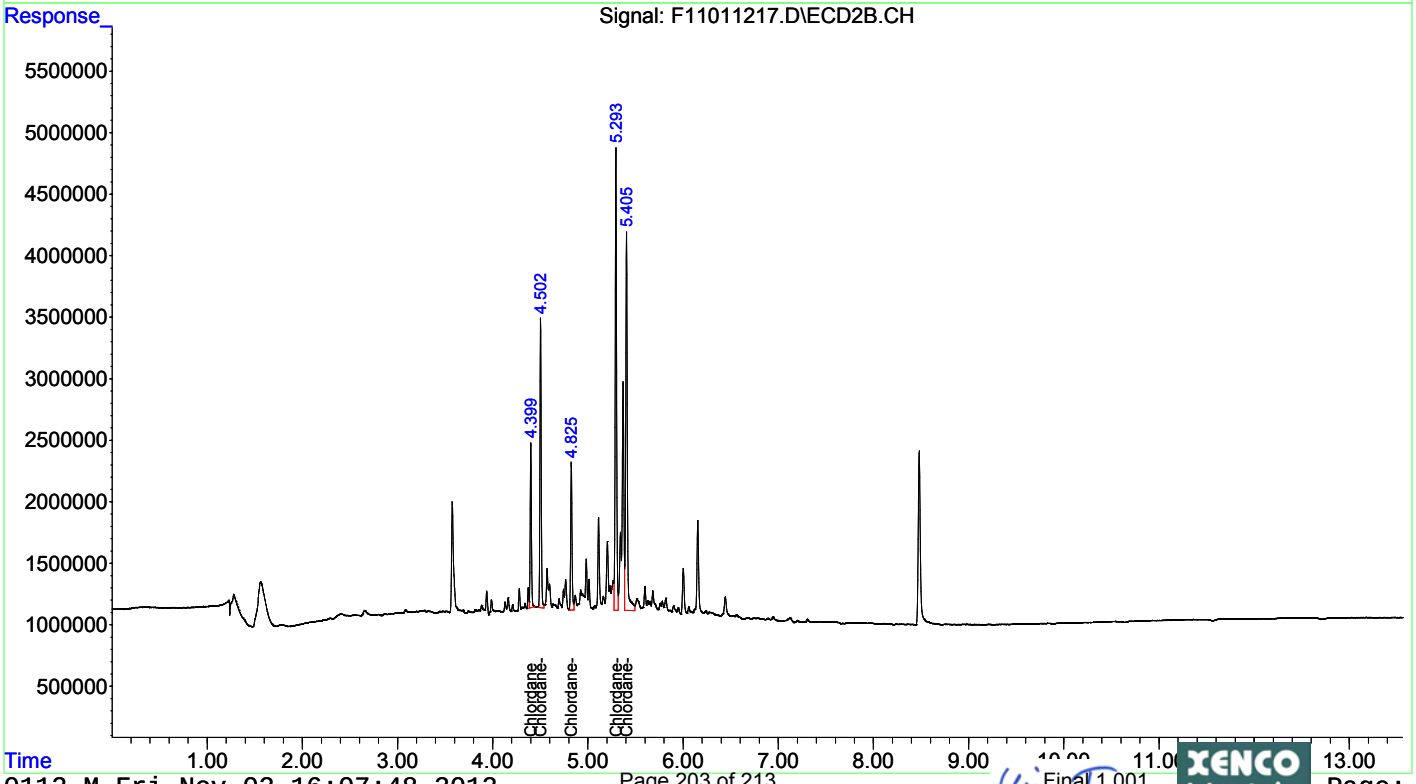
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011217.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 16:45
Operator : NT
Sample : CHLOR-2
Misc : ECD12071
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:54:12 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:53:57 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011218.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 17:02
Operator : NT
Sample : CHLOR-3
Misc : ECD12072
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:53:50 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:53:34 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
	Target Compounds						
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
28)	L1 Chlordane	4.151	4.400	3894674	24965151	193.906	170.646
29)	L1 Chlordane-2	4.207	4.503	6923165	46352350	198.596	178.642
30)	L1 Chlordane-3	4.483	4.826	4692514	25330052	193.511	173.673
31)	L1 Chlordane-4	4.891	5.294	13398001	85172563	191.422	183.372
32)	L1 Chlordane-5	4.983	5.406	19517171	77796450	189.994	181.345
	Sum Chlordane			48425525	259.6E6	967.430	887.678
Average	Chlordane					193.486	177.536

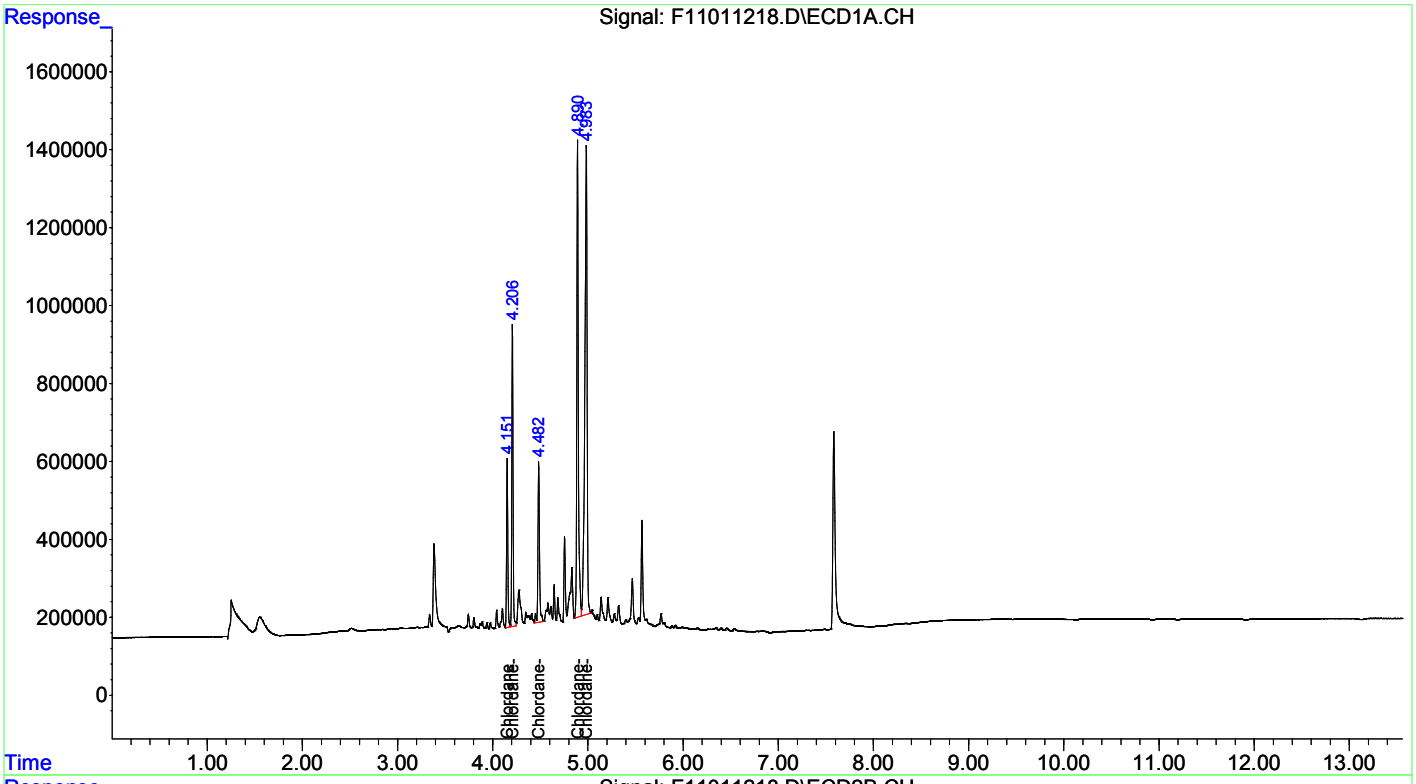
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

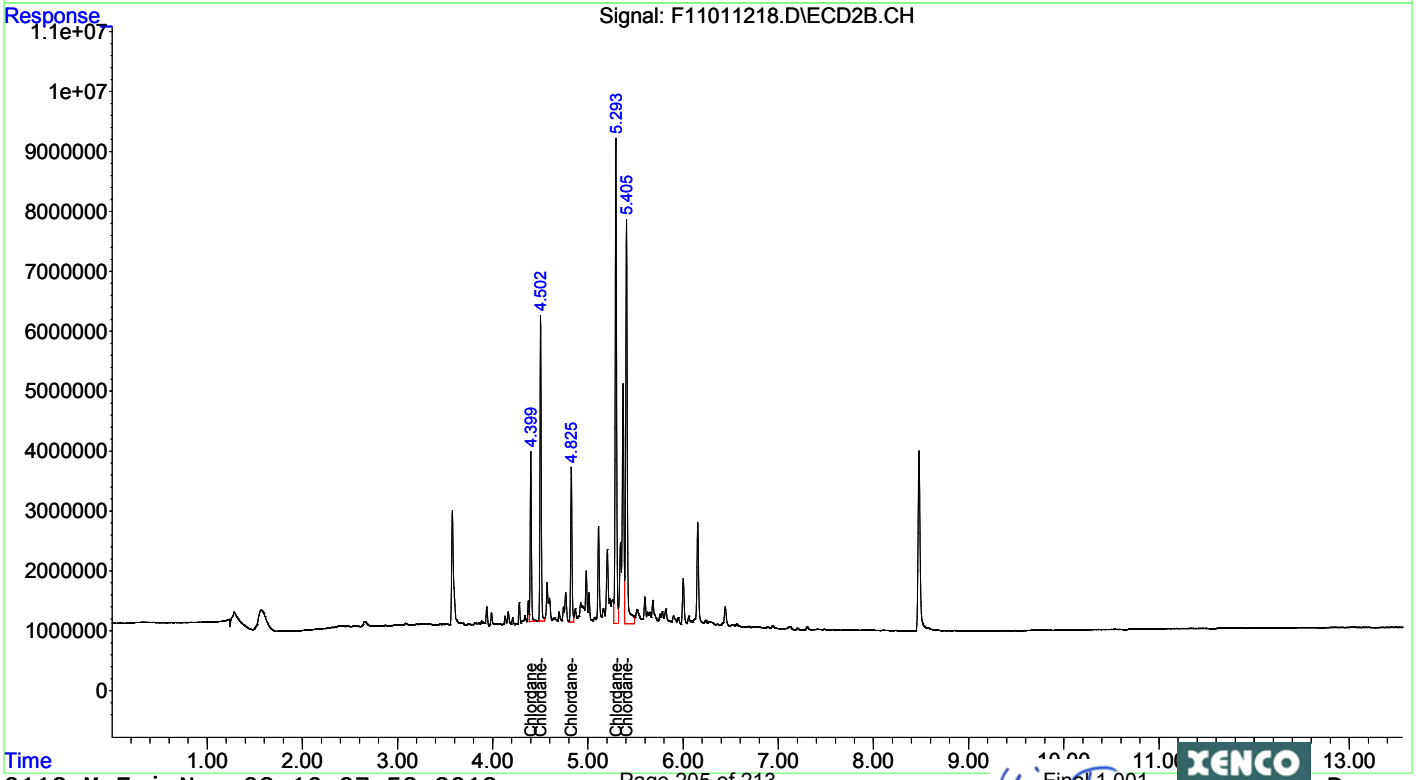
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011218.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 17:02
Operator : NT
Sample : CHLOR-3
Misc : ECD12072
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:53:50 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:53:34 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011219.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 17:20
Operator : NT
Sample : CHLOR-4
Misc : ECD12073
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:53:27 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:53:10 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
	Target Compounds						
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
28)	L1 Chlordane	4.152	4.400	5834336	40347617	287.354	267.078
29)	L1 Chlordane-2	4.207	4.502	10431049	72849481	297.715	273.996
30)	L1 Chlordane-3	4.483	4.825	6811376	39492956	278.082	262.316
31)	L1 Chlordane-4	4.891	5.293	19785487	127.0E6	279.190	266.081
32)	L1 Chlordane-5	4.983	5.406	28763859	117.6E6	276.764	266.075
	Sum Chlordane			71626106	397.3E6	1419.105	1335.545
Average	Chlordane					283.821	267.109

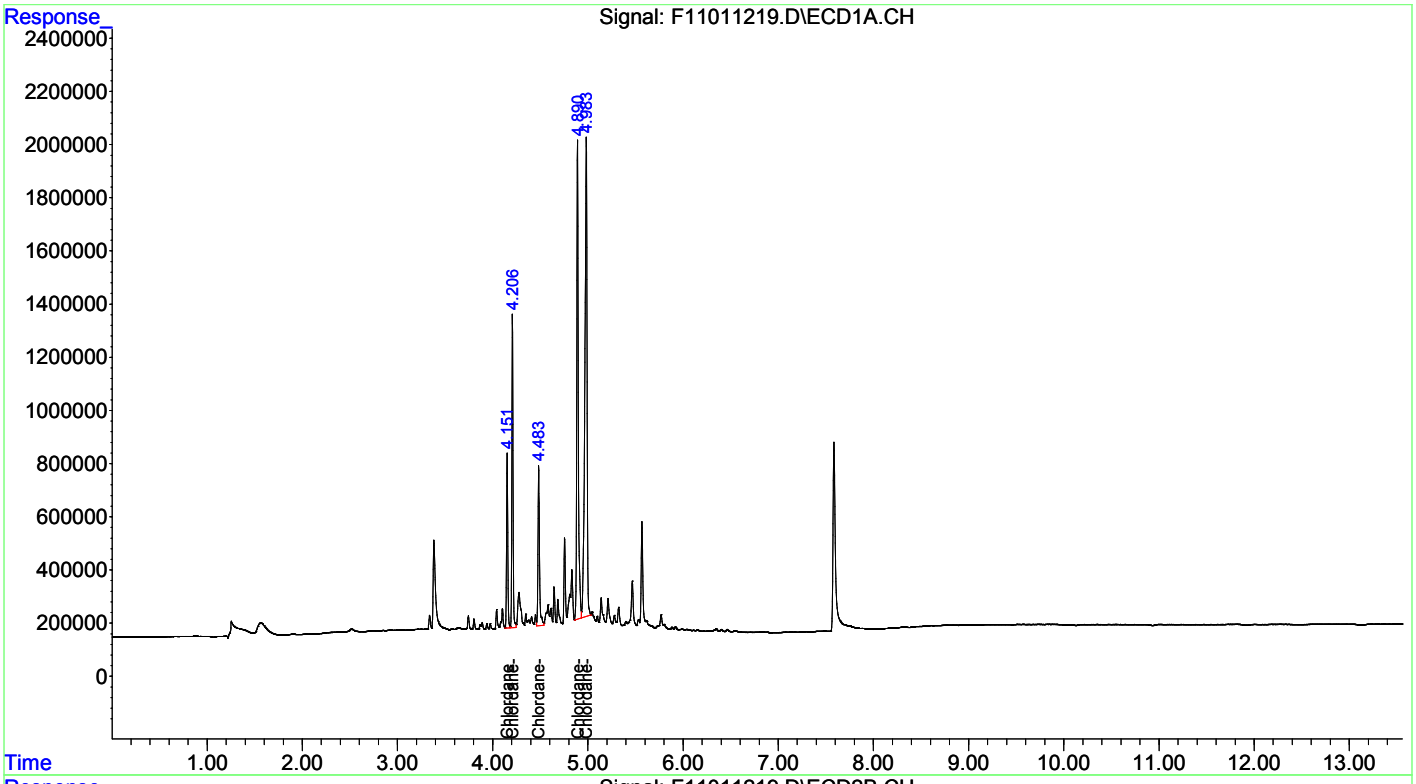
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

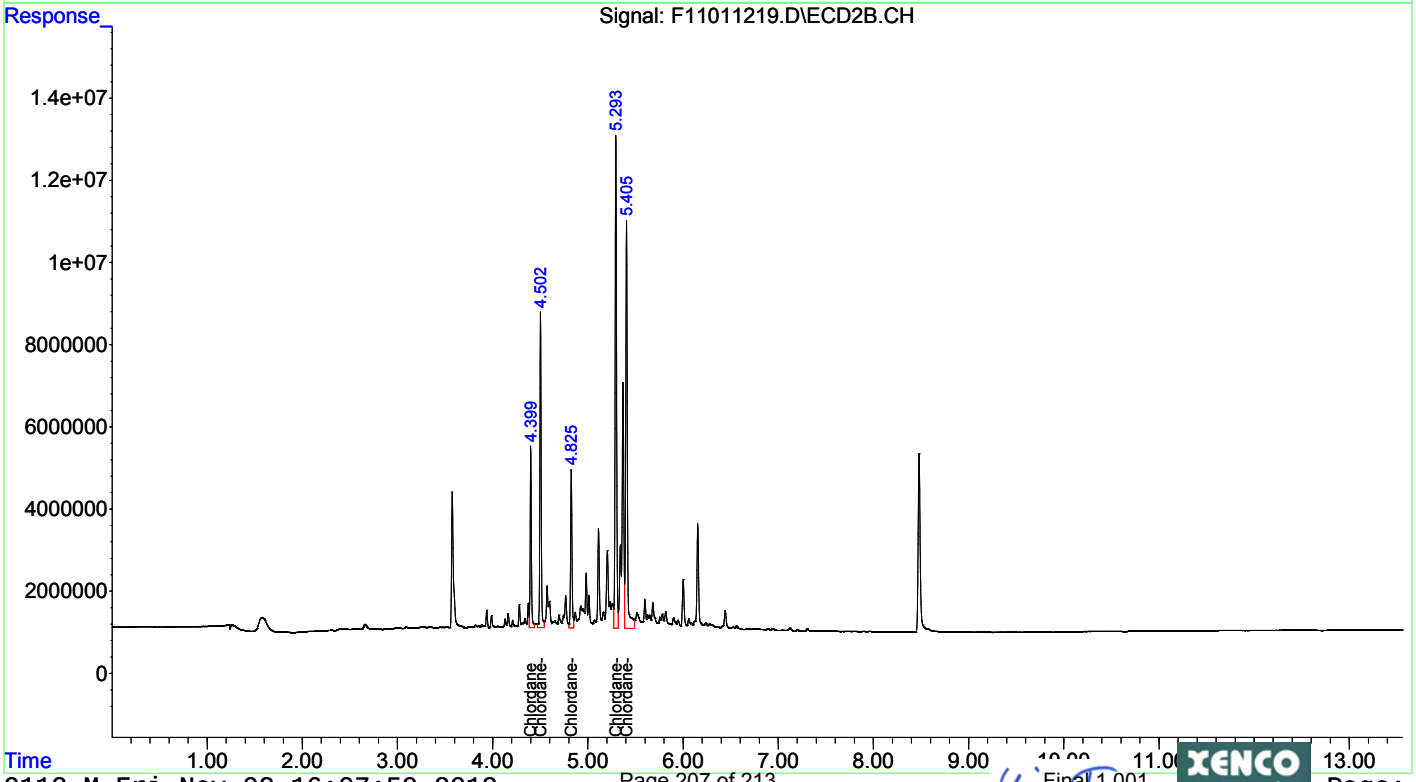
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011219.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 17:20
Operator : NT
Sample : CHLOR-4
Misc : ECD12073
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:53:27 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:53:10 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011220.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 17:37
Operator : NT
Sample : CHLOR-5
Misc : ECD12074
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:53:02 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:52:46 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
	Target Compounds						
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
28)	L1 Chlordane	4.152	4.400	8046468	55317049	393.214	357.049
29)	L1 Chlordane-2	4.207	4.503	14420666	101.1E6	410.554	374.463
30)	L1 Chlordane-3	4.483	4.826	9528807	53923210	385.796	349.081
31)	L1 Chlordane-4	4.891	5.294	28620985	173.5E6	400.179	354.798
32)	L1 Chlordane-5	4.983	5.406	41889827	160.6E6	399.554	354.420
	Sum Chlordane			102.5E6	544.5E6	1989.296	1789.811
Average	Chlordane					397.859	357.962

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011220.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 17:37
Operator : NT
Sample : CHLOR-5
Misc : ECD12074
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:53:02 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:52:46 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
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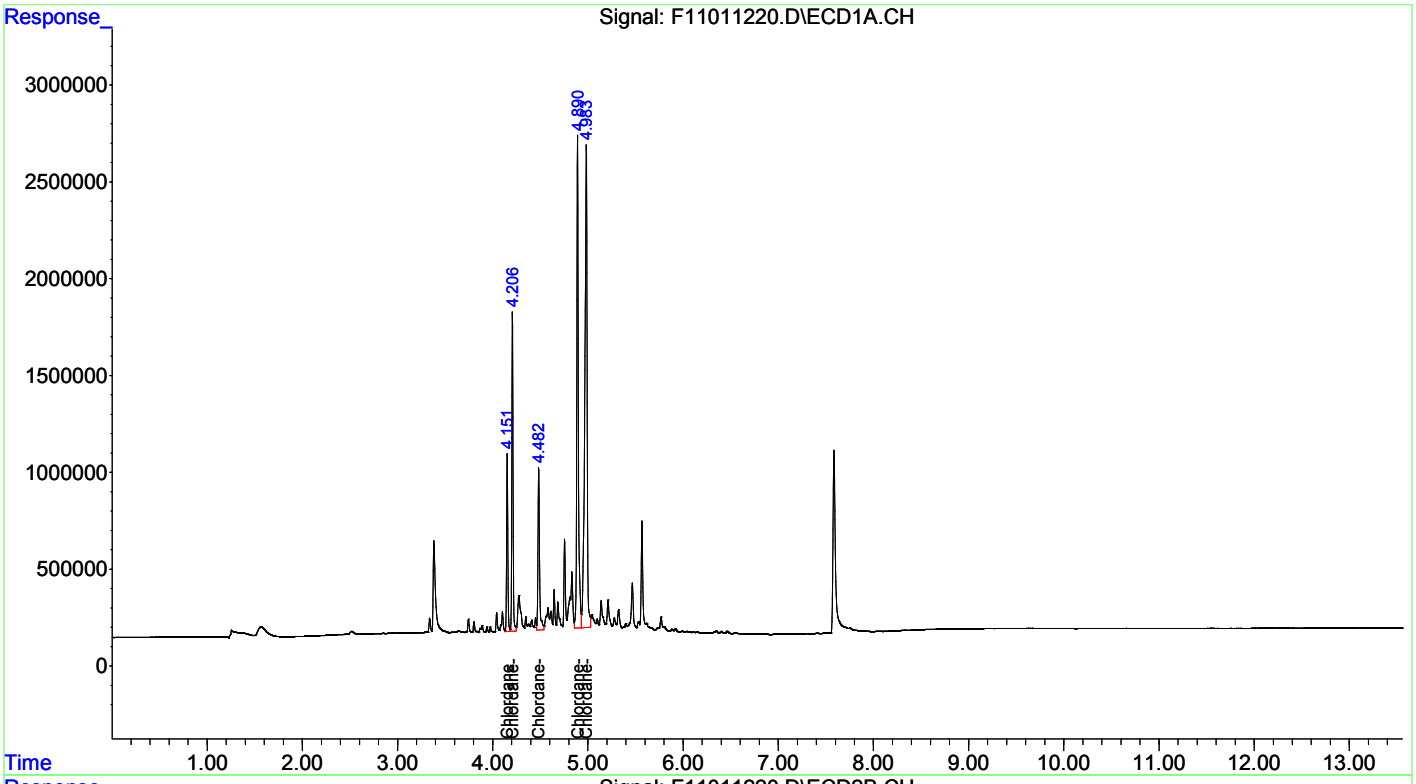
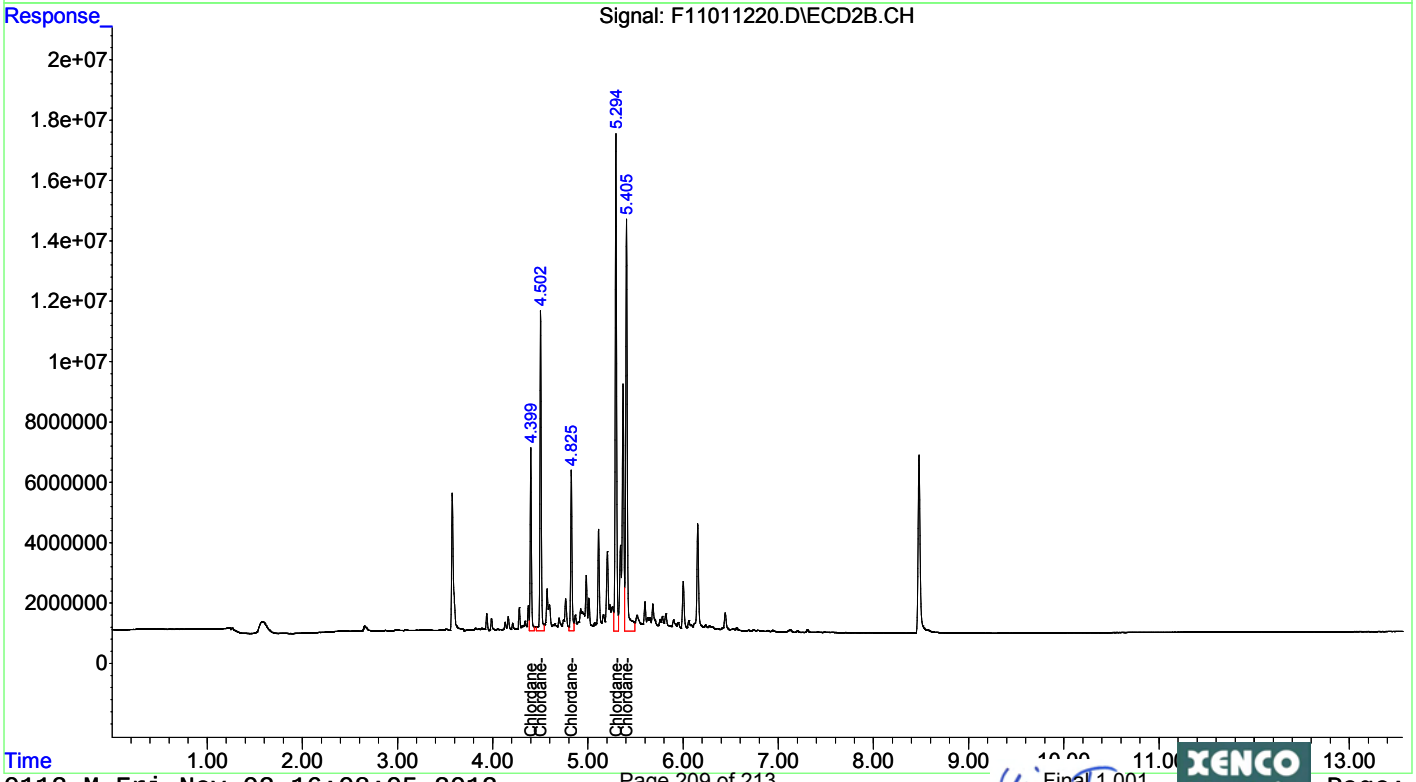
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011221.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 17:55
Operator : NT
Sample : CHLOR-6
Misc : ECD12075
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:52:39 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:52:21 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	System Monitoring Compounds						
	Target Compounds						
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
28)	L1 Chlordane	4.151	4.399	12102517	82675526	591.425	533.637
29)	L1 Chlordane-2	4.207	4.502	21621724	151.0E6	615.566	559.087
30)	L1 Chlordane-3	4.482	4.825	14590706	81632705	590.739	528.463
31)	L1 Chlordane-4	4.890	5.293	44635371	268.1E6	624.092	552.555
32)	L1 Chlordane-5	4.983	5.405	65176285	246.5E6	621.665	544.157
	Sum Chlordane			158.1E6	829.9E6	3043.487	2717.900
Average	Chlordane					608.697	543.580

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011221.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 17:55
Operator : NT
Sample : CHLOR-6
Misc : ECD12075
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:52:39 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
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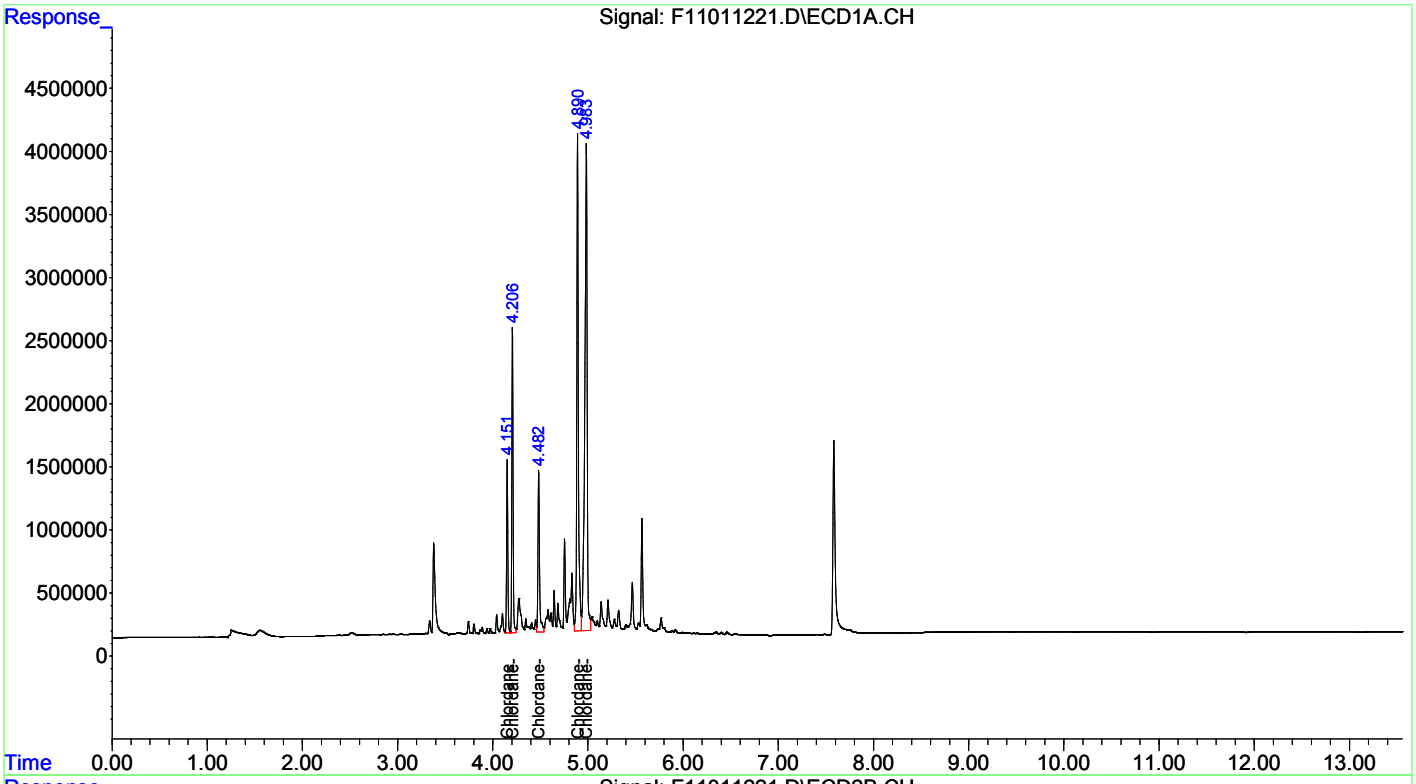
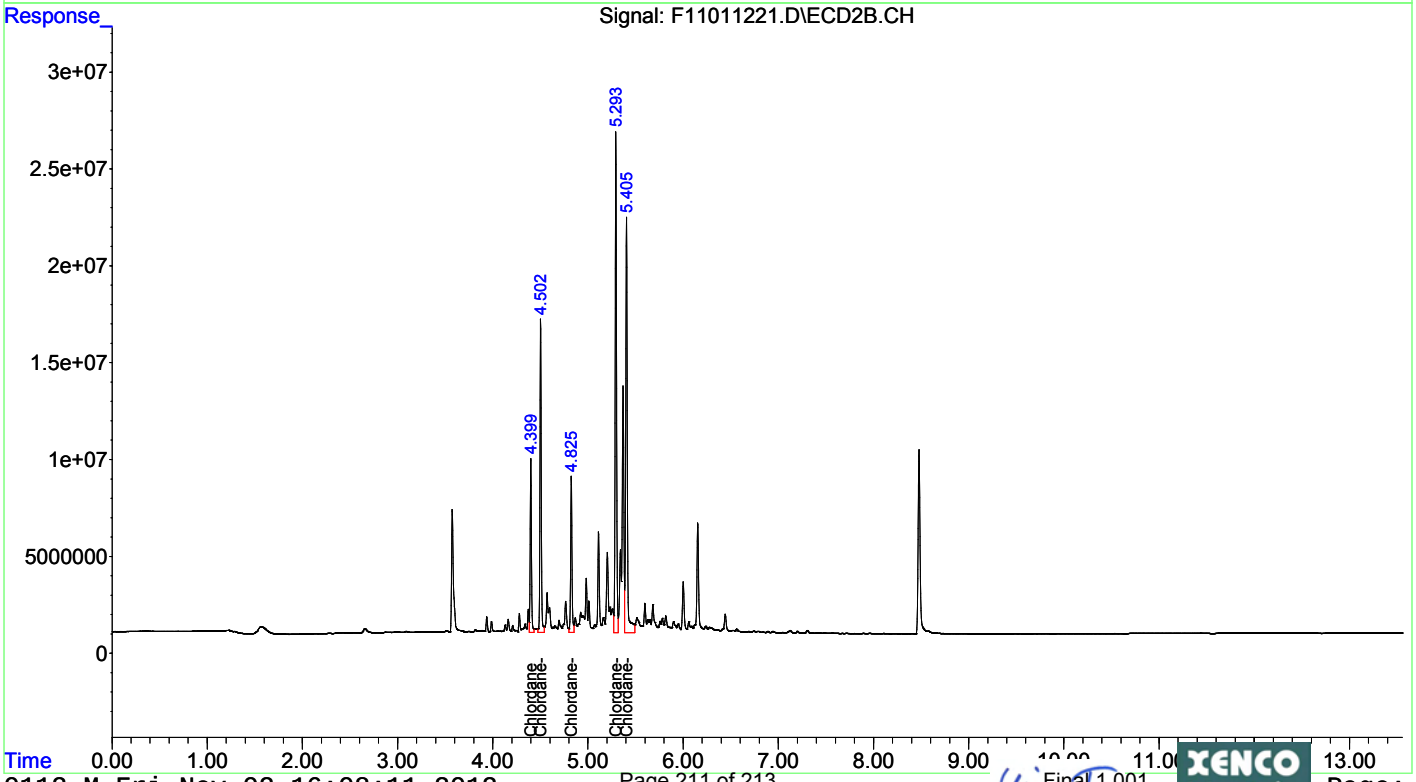
QLast Update : Fri Nov 02 10:52:21 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011222.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 18:13
Operator : NT
Sample : CHLOR-3 ICV
Misc : ECD12076
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:55:31 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:54:59 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S Tetrachlo...	3.385	3.575	3803408	29707736	8.176	10.832 #
Spiked Amount	50.000	Range 30 - 50		Recovery =	16.35%#	21.66%#
22) S Decachlor...	7.586	8.480	8628599	45825853	17.970	19.022
Spiked Amount	50.000			Recovery =	35.94%	38.04%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
28) L1 Chlordane	4.152	4.401	3943409	25696474	202.436	198.266
29) L1 Chlordane-2	4.207	4.503	6994285	46982027	204.322	196.660
30) L1 Chlordane-3	4.483	4.826	4531996	25685857	196.799	197.100
31) L1 Chlordane-4	4.891	5.294	13511197	86501195	199.836	203.277
32) L1 Chlordane-5	4.983	5.406	19687386	78919064	198.263	201.733
Sum Chlordane			48668273	263.8E6	1001.656	997.037
Average Chlordane					200.331	199.407

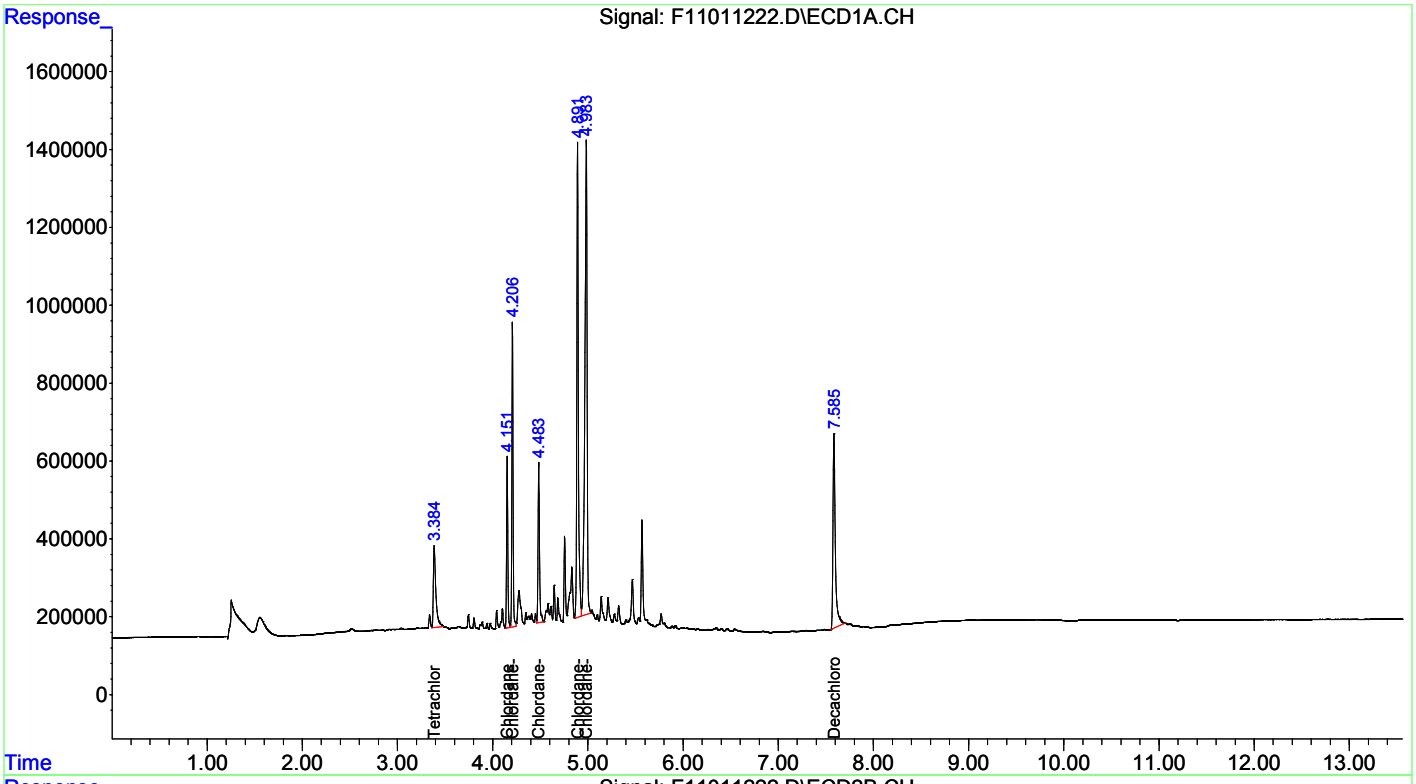
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

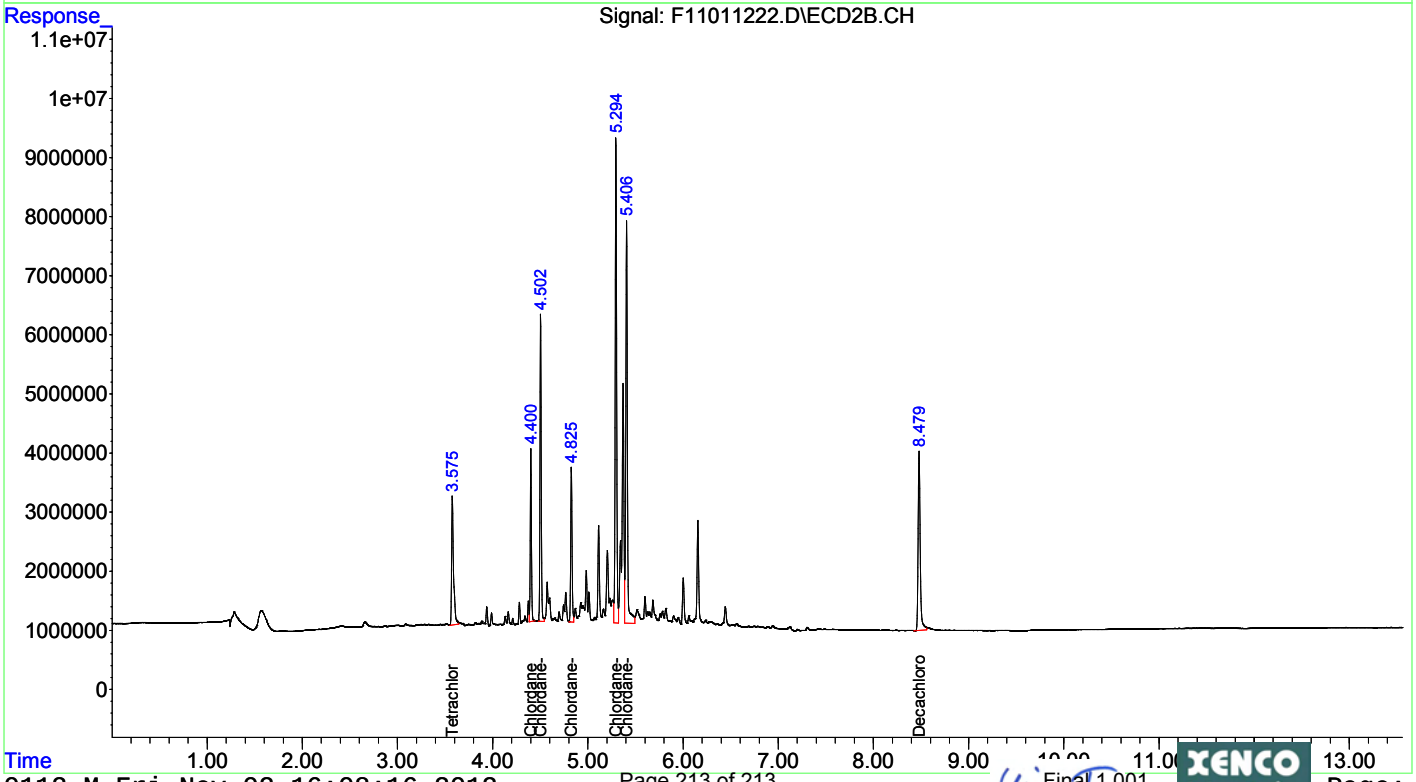
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2012\F110112\
Data File : F11011222.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Nov 2012 18:13
Operator : NT
Sample : CHLOR-3 ICV
Misc : ECD12076
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 02 10:55:31 2012
Quant Method : C:\msdchem\1\METHODS\QUANT\PE110112.M
Quant Title : EPA: SW8081B/608 PESTICIDES 07/31/12 (A-125)
QLast Update : Fri Nov 02 10:54:59 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 0.5 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 Signal #2 Info : 0.32





APPENDIX E

ENVIRONMENTAL INTERNATIONAL CORPORATION
161 Kimball Bridge Road, Suite 100, Alpharetta, GA 30009
Phone: 770-772-7100, Fax: 770-772-0555
Website:www.eicusa.com

October 28, 2013

Ms. Natalie Dawn
Georgia Ports Authority
PO Box 2406
Savannah, Georgia 31402

Re: Report on Second Quarter 2013 VIRP Quarterly MNA Groundwater Monitoring Event, GPA Bainbridge Terminal, HSI Site No. 10071, Bainbridge, Georgia

File: 400007 - 4.5

Dear Ms. Dawn:

On November 2, 2012, the Georgia Environmental Protection Division (EPD) approved a "Voluntary Investigation and Remediation Plan (VIRP)" that was prepared by Environmental International Corporation (EIC) for the above referenced site on behalf of Georgia Ports Authority (GPA). During the first quarter of 2013, GPA retained EIC to implement the scope of work defined in the VIRP. The plan specified a groundwater monitoring program to define the vertical and horizontal extent of constituents of concern (COC) and to determine the potential for Monitored Natural Attenuation (MNA) of the COCs. During the first year, the groundwater monitoring program entails quarterly groundwater monitoring events. Subsequently, groundwater monitoring will be performed on a semi-annual basis. This report presents the results of the second groundwater monitoring event conducted during the Second Quarter of 2013.

The VIRP program entails collecting groundwater samples for analysis from monitoring wells at the site as well as at offsite locations hydraulically up-gradient and side-gradient of the site. During this event, EIC collected 20 groundwater samples from a total of 22 accessible monitoring wells. Monitoring wells MW-13 and MW-15 were dry and therefore unable to be sampled. MW-3 was located, however was not sampled pending the installation of an access road or trail to this well and the redevelopment of this well.

The analytical data from the second quarterly groundwater monitoring event of 2013 was compared with that of the first quarterly (baseline) groundwater monitoring event of 2013 (EIC, 2013b) to track the trends of the prevailing extent of COCs. Such analysis is essential in establishing trends to verify whether natural attenuation of COCs is in progress and to determine if changes to the remedial strategy are required. The trend analysis is also useful in verifying if remedial objectives meet Site Specific Type 4 Risk Reduction Standards (RRS) established in the VIRP, and assists in delineating the horizontal extent of COCs to meet the Type 1 RRS, also established in the VIRP. Trends in COCs degradation rates and plume stability will be determined from the data collected

during this groundwater monitoring event and subsequent quarterly reports.

1.0 PROJECT OBJECTIVES

In the VIRP, EIC proposed to collect groundwater samples from all accessible monitoring wells illustrated in Figure 1. This current groundwater monitoring program has established a new baseline. Therefore, the data from multiple groundwater monitoring events will be compared by spatial and temporal analysis. This will assist GPA in meeting the following goals set forth in the VIRP. These include:

- Perform quarterly site-wide groundwater monitoring events for COC analysis from wells located both within the pesticides footprint as well as outside this footprint followed by semi-annual monitoring events, to establish a baseline horizontal and vertical extent of the prevailing contaminant plume.
- Conduct a well inventory to document the conditions and locations of all accessible site wells, including MW-3 and MW-9 that had been reported as "not-found" during previous investigations. If located, EIC will repair, or, if necessary, replace and properly abandon unusable monitoring wells.
- Re-evaluate the top-of-casing and ground elevation for MW-10, MW-16, MW-20, MW-21, and MW-22.
- Determine if the prevailing groundwater COCs meet or are trending towards meeting the established RRS by periodically performing a two-dimensional concentration/time analysis.
- Review plume stability.
- Track MNA by monitoring the groundwater contaminants within the existing plume.
- Select a fate and transport model to evaluate the effectiveness of the MNA program in compliance with site-specific RRS.
- Based on the observed trends, make further decisions on whether to continue with natural attenuation to reach remedial end points or to evaluate other enhancement measures.

The following sections outline the tasks performed by EIC to meet these objectives.

2.0 GROUNDWATER MONITORING FIELD PROGRAM

To meet the project objectives, EIC attempted to conduct groundwater monitoring of all accessible monitoring wells within and outside the known contaminant plumes. These include wells, MW-1, MW-1A, MW-2, MW-4U, MW-5A, MW-5D, MW-6, MW-7, MW-8, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, and MW-22. During groundwater monitoring activities, however, monitoring wells MW-13 and MW-15 were found to be dry. As such, no groundwater samples were able to be collected from these two monitoring wells. As mentioned previously, MW-3 was not sampled pending the installation of an access road or trail and redevelopment.

During the period from June 3, 2013 through June 7, 2013, EIC collected groundwater samples from a total of 21 wells and submitted the samples for laboratory analysis. The following sections describe EIC's sampling technical approach.

2.1 GROUNDWATER MONITORING PROTOCOL

The groundwater monitoring program was conducted in accordance with the current U.S. EPA groundwater sampling procedure "Field Branches Quality System and Technical Procedures" (FBQSTP) per the 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).

2.2 SITE ACCESS

Prior to EIC's site visit, EIC coordinated with the GPA to collect groundwater samples from on-site wells and coordinated with GPA in gaining access from Agrium to collect groundwater samples from off-site wells, MW-15, MW-16, MW-18, MW-19, MW-20, and MW-21. EIC also contacted the Georgia Department of Transportation (DOT) in obtaining permission to access monitoring well MW-22 which is located on the north right-of-way of Georgia State Highway 253/Spring Creek Road.

2.3 FIELD PROCEDURES

2.3.1 Groundwater Gauging

EIC gauged each well with a pressure transducer to determine the depth to groundwater and utilized the top-of-casing (TOC) elevations to determine the groundwater elevation. The initial gauging data is tabulated in Table 1.

2.3.2 Groundwater Sampling

Prior to initiating field sampling activities on June 3, 2013, GPA placed a 55-gallon drum to containerize purged groundwater in the 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 shipper noted as "Georgia Ports Authority", contents noted as "IDW Well Purge Water", and accumulation date noted as "6/5/2013". EIC utilized a peristaltic pump for purging and sampling. Disposable 1/4-inch inner diameter 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. Based on both the depth to groundwater (determined during gauging), the field measured difference between the height of the well TOC relative to the ground surface (stick-up height), and the depth to the screened interval of each well

(based on historical well logs), EIC determined the depth to set the Teflon-lined tubing intake. 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 to the depth of the 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 3 consecutive readings were within ± 0.1 for pH, ± 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 A). Groundwater quality field parameters after stabilization and prior to sample collection are summarized in Table 2. It should be noted that at 5 of the wells, turbidity levels of 10 NTUs or lower could not be reached after reasonable attempts were made prior to sampling the wells. EIC also recorded field activities in a field book.

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 containers ("coolers") 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. The 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 analysis of methane, ethane, and ethene gases via EPA Method RSK-175. The laboratory report is included as Attachment B.

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 from June 3, 2013 through June 5, 2013. EIC hand-delivered the remaining samples, for all the aforementioned analyses, to the laboratory on June 7, 2013. At the end of sampling activities, the 55-gallon drum containing investigation derived waste (IDW) purge water was sealed by EIC.

3.0 QUALITY ASSURANCE AND QUALITY CONTROL

During the groundwater sampling process, EIC collected additional samples for quality assurance and validation of analytical results. One additional sample was collected from each of wells, MW-19 and MW-22, for organochlorine pesticides laboratory matrix spike analysis via EPA method

8081B/3660B. Additionally, EIC collected one complete duplicate sample set from well MW-10 and one complete sample set of equipment blank by pumping de-ionized water through a 10-foot length of Teflon-lined tubing and approximately 8-inches of silicone tubing, for analysis via EPA methods, 8081B/3660B, 9060A, 6010C, 9056A, and RSK-175. 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. All sample bottles were properly sealed and labeled in the field.

In the duplicate MW-10 sample, alpha-, beta-, delta-, and gamma-BHC constituents were all above the detection limits as occurred with the actual MW-10 sample. The duplicate sample results were slightly higher than the original sample results. The difference between the constituent concentrations of the two samples ranged from 0.098 µg/L for gamma-BHC to 1.98 µg/L for beta-BHC. All of the analytical results for the equipment blank were below the detection limit, except for total organic carbon with a relatively low concentration of 0.653 J µg/L. The source of the total organic carbon constituent was not determined.

To prevent cross-contamination, dedicated disposable Teflon-lined tubing and silicone tubing were used to collect all samples. EIC's pressure transducer 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 water quality parameters instrument, the parameter sensors, and the flow-through cell were decontaminated by disassembling and cleaning with pressurized DI water.

4.0 DATA EVALUATION

EIC conducted an evaluation of the data compiled from field sampling and laboratory analysis to determine the current groundwater potentiometric surface and the horizontal extent of the prevailing contaminant plume.

4.1 GROUNDWATER POTENTIOMETRIC MAP

From gauging data summarized in Table 1, EIC prepared a groundwater potentiometric surface map (Figure 2). In general, groundwater flows southeast towards the Flint River. Comparing Figure 2 to the baseline potentiometric surface of March 2013, in the June 2013 potentiometric surface, there is a trough feature beginning in the vicinity of MW-11 and extending towards the southeast to the vicinity of MW-6, however, there were no apparent trough features in the March 2013 potentiometric surface. From MW-6, the trough is less prominent but continues southward where it reaches the vicinity of MW-17. In comparing the groundwater potentiometric surface of June 2013 to those of April 2012 and March 2013, the potentiometric surface in June 2013 was approximately one half of a foot higher than it was in April 2012 and approximately 1.5 feet lower than it was in March 2013.

4.2 HORIZONTAL EXTENT OF CONTAMINANT PLUMES

Table 3 summarizes the results of the analysis of organochlorine pesticides from both, the current groundwater sampling program and historical data. Pesticide contamination analysis included the primary COC, benzenehexachloride (BHC) (consisting of isomers alpha-BHC, beta-BHC, delta-BHC - and gamma-BHC (Lindane)), 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.

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

4.2.1 Alpha-BHC Plume

Referring to Figure 3, the highest concentrations of alpha-BHC occurred at MW-6 (1.23 µg/L), followed sequentially by MW-22 (0.833 µg/L) and MW-10 (0.427 µg/L). As such, the horizontal distribution of the alpha-BHC plume primarily extends north to south from the areas of MW-10 and MW-22 to MW-8, and extends west to east between the vicinity of the RSW building to MW-15. The long axis of the primary plume is partially aligned with the trough axis of the groundwater potentiometric surface, as described in Section 5.1.
The concentration of the alpha-BHC plume in general has decreased as compared to the concentrations depicted in the alpha-BHC contour map of March 2013 (EIC, 2013b – Figure 3), however, the southern extent of the plume above RRS (which in March 2013 was approximately 50 feet north of MW-5D) has extended past MW-5A to reach approximately 150 feet south of MW-5D. Referring to Figure 3, it is apparent that the horizontal delineation of the alpha-BHC plume is defined, except to the north beyond Spring Creek Road.

4.2.2 Beta-BHC Plume

Referring to Figure 4, the highest concentrations of beta-BHC occurred at MW-22 (31.7 µg/L), followed sequentially by MW-10 (5.79 µg/L), MW-5A (4.20 µg/L), and MW-20 (4.15 µg/L). As such, the 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 slightly north of MW-8, and extends west to east between the RSW and well MW-16. This indicates that the long axis of the primary plume is aligned parallel to the direction of groundwater flow (Figure 2).

It is interesting to note that the highest BHC concentration representing beta-BHC continues to be found at MW-22, located immediately down-gradient of the Georgia Gulf Sulfur (GGS) property north of Spring Creek Road and hydraulically up-gradient of GPA.

In June 2013, well MW-13 was dry so was not sampled, however, the Beta-BHC concentration was above the RRS limit at MW-13 during the March 2013 monitoring event. As such, it is presumed that the same plume surrounding MW-13 in March 2013 remains in the area of MW-13. EIC will further evaluate the source that contributed to this isolated plume.

In comparison to the concentrations depicted in beta-BHC contour map of March 2013 (EIC, 2013b – Figure 4), the concentrations of the June 2013 beta-BHC plume have in general slightly increased; especially at monitoring well MW-22. Referring to Figure 4, it appears that the horizontal delineation of the beta-BHC plume is defined, except to the north beyond Spring Creek Road and to the south toward the Flint River.

4.2.3 Delta-BHC Plume

Referring to Figure 5, the highest concentrations of delta-BHC occurred at MW-22 (1.79 µg/L), followed sequentially by MW-6 (1.69 µg/L), MW-5D (0.567 µg/L), MW-10 (0.372 µg/L), and MW-5A (0.348 µg/L). As such, the horizontal distribution of the delta-BHC plume extends north to south from the area of MW-22 and MW-10 to the vicinity of MW-8 and extends west to east from near the location of the former MW-9 and the R.S.W. building to the vicinity of MW-15 and MW-20. The long axis of the plume is partially aligned with the trough axis of the groundwater potentiometric surface (Figure 2), similarly to the alpha and beta-BHC plumes.

The southern extent of the delta-BHC plume above RRS has shifted southward towards the Flint River reaching approximately halfway between wells MW-8 and MW-12, as compared to the delta-BHC plume extent of March 2013 (EIC, 2013b – Figure 5). Referring to Figure 5, it is apparent that the horizontal delineation of the delta-BHC plume is complete, except to the north beyond Spring Creek Road.

4.2.4 Inorganic Parameters

Referring to Table 4, it is apparent that high concentrations of nitrates remain present at several off-site wells located on the Agrium property since March 2013. Referring to the nitrate concentrations of March 2013, the highest concentration of nitrates occurred in the vicinity of monitoring well MW-15. However, since MW-15 was dry during the June 2013 groundwater monitoring event, no samples could be taken to compare the nitrate concentrations between the two events. Presumably, the peak plume remains in the vicinity of MW-15. Referring to Table 4, in June 2013, the highest concentration of nitrate from the available wells occurred at MW-18 (138 µg/L), followed sequentially by MW-19 (96.1 µg/L) and MW-5D (30.2 µg/L).

Referring to Table 4, relatively high concentrations of sulfate remained present on GPA property in the vicinity of the RSW, Warehouse 1 (WH1), Warehouse 2 (WH2), and Warehouse 3 (WH3) buildings. Relatively high concentrations of sulfate were also present in the north parcel located immediately down-gradient of the Georgia Gulf Sulfur property. The highest concentrations of sulfate occurred at MW-6 (687 µg/L), followed sequentially by MW-10 (468 µg/L), MW-1A (465 µg/L), and MW-1(411 µg/L). As sulfate is also present to the north and up-gradient beyond Spring

Creek Road, the source of the sulfate is apparently north of 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 VERTICAL EXTENT OF CONTAMINANT PLUMES

There are two deep wells at the site, namely MW-14 and MW-17, as defined by EIC, as they have screened intervals at or deeper than 50 feet below ground surface (bgs). According to historical well construction logs, the depth to the top and bottom of the screened interval in monitoring wells MW-14 and MW-17 are from 67 to 72 feet bgs and from 50 to 60 feet bgs, respectively. EIC has therefore utilized the aforementioned wells to monitor vertical migration of COCs.

Referring to Table 3, following historical trends, the concentrations of alpha-BHC, beta-BHC, and delta-BHC at MW-14 and MW-17, have remained below the RRS. Utilizing subsequent groundwater monitoring event data, EIC will evaluate and ascertain the trends in the vertical extent of COCs and present its findings in future reports.

4.4 BHC PLUME STABILITY

As discussed in Section 6.2, the horizontal extent and concentrations of the alpha-BHC, beta-BHC, and delta-BHC plumes, have slightly increased and migrated closer to the Flint River, as compared to plumes in March 2013. EIC will continue to evaluate data from subsequent groundwater monitoring events to determine the stability of these plumes.

5.0 CONCLUSIONS

Based on the results of the second VIRP groundwater monitoring program, in comparison to the data from the March 2013 groundwater monitoring event, the overall horizontal extent of the BHC plume appears to be slightly increasing in horizontal extent and in concentration. It is apparent, however, that a portion of the BHC plumes extends into the Agrium property to the east of GPA property. The highest BHC concentration, as represented by beta-BHC, was observed at MW-22, a well immediately down-gradient of the GGS property and located hydraulically up-gradient of GPA. Regarding the vertical extent of the BHC plume, at deep wells, MW-14 and MW-17, the concentrations of the BHC isomers continue to remain below the RRS, following historical trends. EIC will continue to evaluate the horizontal and vertical trends in COCs utilizing subsequent groundwater monitoring event data.

6.0 RECOMMENDATIONS

- Re-develop monitoring well MW-15;
- Install an access road from accessible areas to MW-3; and
- Conduct well rehabilitation of all damaged wells (EIC, 2013a).

7.0 REFERENCES

Environmental International Corporation (EIC), 2012. "*VIRP Application, BHC Remediation*", Bainbridge, Georgia, July 31, 2012.

EIC, 2013a. "*First VIRP Semi-annual Progress Report, Georgia Ports Authority – Bainbridge Terminal, HIS Site No. 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19, Bainbridge, Decatur County, Georgia"*. Bainbridge, Georgia, May 9, 2013.

EIC, 2013b. *"Report on First Quarter 2013 (Baseline) VIRP Quarterly MNA Ground Water Monitoring Event, GPA Bainbridge Terminal, Bainbridge, Georgia"*. Bainbridge, Georgia, October, 2013.

EIC, 2013c. *"June 2013 Land Survey Report, GPA Bainbridge Terminal, Bainbridge, Georgia"* Bainbridge, Georgia, October, 2013.

Georgia Environmental Protection Division (EPD), 2012a. *Letter from GA EPD to GPA, "Voluntary Investigation and Remediation Plan (VIRP) and Application, July 25, 2012, Georgia Ports Authority – Bainbridge Terminal, Hazardous Site Inventory Number 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19".* November 2, 2012.

EPD, 2012b. *Letter from GA EPD to GPA, "Voluntary Investigation and Remediation Plan (VIRP) and Application, July 25, 2012, Comment Letter, Georgia Ports Authority – Bainbridge Terminal, Hazardous Site Inventory Number 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19".* November 2, 2012.

U. S. Environmental Protection Agency (EPA), 2013. *Groundwater Sampling, Operating Procedure, Number SESDPROC-301-R3, Region 4, U.S. Environmental Protection Agency, Science and Ecosystem Support Division, Athens, Georgia.* March 6, 2013.

Ms. Natalie Dawn
Georgia Ports Authority

We appreciate the opportunity to have served you on your project needs. If you have any questions, please call or e-mail me.

Sincerely,
ENVIRONMENTAL INTERNATIONAL CORPORATION

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

Cc: Alan Sanders, EIC

TABLES

Table 1: Well Gauging Data for June 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	27.15	78.09	re-marked gauging point on high side of TOC, gauged from mark
MW-1A (2)	105.36	27.27	78.09	gauged from high side of TOC on side towards the nearby railroad
MW-2 (2)	99.70	20.89	78.81	gauged from mark on high east side of TOC
MW-3 * (2)	97.13	NM	NM	located well utilizing licensed surveyors, well culd not be gauged due to no established path to well
MW-4U (2)	103.54	25.35	78.19	gauged from mark on high side of TOC
MW-5A (2)	96.48	18.96	77.52	gauged from north side of TOC
MW-5D (2)	95.93	18.35	77.58	gauged from mark on high side of TOC
MW-6 (2)	102.06	24.38	77.68	gauged from high side of TOC
MW-7 (2)	98.16	19.99	78.17	gauged from mark on the high south side of TOC
MW-8 (2)	93.39	16.02	77.37	marked gauging point on north side of TOC. Gauged from mark
MW-9 ** (2)	NA	NA	NA	did not locate well utilizing licensed surveyors
MW-10 * (2)	100.02	21.87	78.15	gauged from mark on TOC towards Spring Creek Road
MW-11 (2)	100.92	22.71	78.21	gauged from mark on TOC towards Spring Creek Road
MW-12 (2)	93.89	17.00	76.89	marked gauging point on north side of TOC, gauged from mark
MW-13 *[3] (2)	93.35	16.57	< 76.78	marked gauging point on high side of TOC, gauged from mark, well was dry, so DTB was measured
MW-14 (2)	101.91	25.39	76.52	gauged from north side of TOC
MW-15 *[3] (2)	98.03	20.11	< 77.92	marked gauging point on north side of TOC, gauged from mark, well was dry, so DTB was measured
MW-16 * (2)	97.17	18.97	78.20	gauged from mark on TOC towards Spring Creek Road
MW-17 (2)	93.50	16.07	77.43	gauged from mark on high east side of TOC
MW-18 (2)	95.48	17.65	77.83	gauged from mark on north side of TOC
MW-19 (2)	96.54	18.80	77.74	marked gauging point on north side of TOC, gauged from mark
MW-20 * (2)	96.61	18.49	78.12	gauged from mark on TOC towards Spring Creek Road
MW-21 * (2)	97.58	19.50	78.08	marked gauging point towards Spring Creek Road on TOC, gauged from mark
MW-22 * (2)	98.90	20.78	78.12	marked gauging point mark on TOC opposite Spring Creek Road

Notes:

All DTW measurements were recorded prior to purging using a Solinst Interface Meter, Model:122

*TOC elevations were based on survey conducted by Donaldson, Garrett, & Associates, Inc. on 6/20/2013.
** Well Not Located
*[3] Groundwater surface elevation lies below well bottom elevation

TOC = Top of Casing
DTW = Depth to Water below TOC
DTB = Depth to Bottom below TOC
NM = Not Measured
NA = Not Applicable

Table 2: Groundwater Quality Field Parameters Summary for June 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
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
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
MW-3 (2)	3/28/2013	NL	NL	NL	NL	NL	NL
	6/4/2013	NS	NS	NS	NS	NS	NS
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
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
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	6.7	0.54
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
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
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
MW-9 (2)	3/25/2013	NL	NL	NL	NL	NL	NL
	6/5/2013	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
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
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
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
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

Table 2: Groundwater Quality Field Parameters Summary for June 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-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
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
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
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
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
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
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
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

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 6/3/2013 to 6/6/2013, 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 3: Groundwater Data Summary Table for June 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	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/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	0.0510 U	**0.1 J**	0.051 U	0.0510 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	0.00150 U	0.000900 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	0.00170 U	0.00150 U	0.000900 U	0.000700 U	0.00190 U	0.00200 U	0.000700 U	0.00200 U	0.00100 U	0.00320 U	0.00140 U	0.00190 U	0.00210 U	0.00220 U	0.00210 U	0.0100 U	0.00220 U	0.00150 U	0.00110 U	0.00130 U	0.215 U
MW-1A	7/13/2011	0.0510 U	0.0510 U	0.0510 U	0.0510 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	0.00150 U	0.000900 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	**1.25**	**1.31**	**1.71**	0.000700 U	0.00190 U	0.00200 U	0.000700 U	0.00200 U	0.00100 U	0.00320 U	0.00140 U	0.00190 U	0.00210 U	0.00220 U	0.00210 U	0.0100 U	0.00220 U	0.00150 U	0.00110 U	0.0013 U	0.215 U
MW-2	7/14/2011	0.0500 U	0.05 U	**0.05**	0.0500 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	0.000900 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	0.00170 U	0.00150 U	0.000900 U	0.000700 U	0.00190 U	0.00200 U	0.000700 U	0.00200 U	0.00100 U	0.00320 U	0.00140 U	0.00190 U	0.00210 U	0.00220 U	0.00210 U	0.0100 U	0.00220 U	0.00150 U	0.00110 U	0.00130 U	0.215 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	NL
	6/3/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4U	3/28/2013	0.0017 U	0.0015 U	0.000900 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	0.00170 U	0.00150 U	0.000900 U	0.000700 U	0.00190 U	0.00200 U	0.000700 U	0.00200 U	0.00100 U	0.00320 U	0.00140 U	0.00190 U	0.00210 U	0.00220 U	0.00210 U	0.0100 U	0.00220 U	0.00150 U	0.00110 U	0.00130 U	0.215 U
MW-5A	7/15/2011	**0.1300**	**1.41**	**0.559**	**0.1000 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	**0.4300 J**	**15.6 UBL**	**1.6 UBL**	**0.2230 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	**0.0220 J**	**5.1 ***	**0.09**	**0.0190 J**	0.0049 U	**0.080**	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	0.0049 U	0.0049 U	**0.19**	0.98 U
	3/26/2013	**0.0995**	**2.34**	**0.242**	**0.0760**	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**	**4.20**	**0.348**	**0.113**	0.00190 U	**0.0782**	0.000700 U	0.00200 U	**5.41**	0.00320 U	0.00140 U	0.00190 U	0.00210 U	0.00220 U	0.00210 U	0.0100 U	0.00220 U	0.00150 U	0.00110 U	**0.122**	0.215 U
MW-5D	7/1/2011	**1.0000**	**8.7**	**3.7**	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	4/15/2008	**0.1900**	**12**	**0.86**	**0.0810**	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	**1.1800 J**	**23.3**	**4.7**	**0.5380 J**	2.02 U	**2.020** 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	0.5000 U	**8.61**	**0.47 J**	**0.5380 J**	0.5 U	**0.5** U	0.5 U	0.5 U	**5.60**	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	**0.6600**	**6.00 UBL**	**2.10 UBL**	**0.5440**	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	**0.7200**	**5.20 ***	**2.50 ***	**0.6800**	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	0.00980 U	0.0098 U	0.01 U	0.0049 U	0.0049 U	0.01 U	0.98 U
	3/26/2013	0.0017 U	**0.119**	0.000900 U	0.0007 U	0.0019 U	0.002 U	0.0007 U	0.002 U	0.001 U	0.00320 U	0.00140 U	0.00190 U	0.00210 U	0.0022 U	0.0021 U	0.010 U	0.00220	0.00150 U	0.0011 U	0.00130 U	0.215 U
	6/4/2013	**0.215**	**2.49**	**0.567**	0.225	0.00190 U	0.00200 U	0.00700 U	0.00200 U	0.00100 U	0.00320 U	0.00140 U	0.00190 U	0.00210 U	0.00220 U	0.00210 U	0.0100 U	0.00220	0.00150 U	0.00110 U	0.00130 U	0.215 U
MW-6	9/1/2001	**1.8400**	**1.39**	**2.22**	**0.3100**	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	8/1/2002	**1.2000**	**1.0**	**3.6**	**0.1100**	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	4/14/2008	**1.7000**	**1.1**	**3.5**	**0.0079 J**	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.05 U	0.05 U	0.051 U	0.0510 U	0.05 U	0.05 U	0.051 U	0.05 U	0.051 U	0.051 U	0.05 U	0.051 U
	8/4/2009	**2.3600**	**1.7**	**6.7**	0.5050 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	**2.5000**	**2.5**	**7.9**	0.5260 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	**1.4000**	**1.60**	**2.54 UBL**	0.2530 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	**1.4000 ***	**1.3 ***	**2.6 ***	**0.0130 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	**1.2900**	**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	0.00190 U	0.00200 U	0.00700 U	0.00200 U	0.00100 U	0.00320 U	0.00140 U	0.00190 U	0.00210 U	0.00220 U	0.00210 U	0.0100 U	0.00220	0.00150 U	0.00110 U	0.00130 U	0.215 U
MW-7	3/27/2013	**0.0300 J**	**0.273**	0.000900 U	0.000700 U	0.00190 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	0.00170 U	**0.489**	0.000900 U	**0.0524**	0.00190 U	0.00200 U	0.00700 U	0.00200 U	0.00100 U	0.00320 U	0.00140 U	0.00190 U	0.00210 U	0.00220 U	0.00210 U	0.0100 U	0.00220	0.00150 U	0.00110 U	0.00130 U	0.215 U
MW-8	9/2/2001	0.1000 U	**0.22**	0.1 U	0.1000 U	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	4/15/2008	**0.3100**	**1.7**	**0.46**	**0.2000**	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	0.0500 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	**0.5270**	**2.66**	**1.1**	**0.2770**	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	**0.2270**	**1.99**	**0.300 UBL**	**0.1240**	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	**0.2100**	**2.1 ***	**0.28**	**0.1300**	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	**0.0360 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**	0.00190 U	0.00200 U	0.00700 U	0.00200 U	0.00100 U	0.00320 U	0.00140 U	0.00190 U	0.00210 U	0.00220 U	0.00210 U	0.0100 U	0.00220	0.00150 U	0.00110 U	0.00130 U	0.215 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
MW-10	4/1/2002	**1.9000**	**9**	**3.7**	**0.8600**	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	6/1/2002	**1.5000**	**8.8**	**1.8**	**0.7000**	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	6/3/2002	**1.5000 J**	**8.8 J**	**1.8 J**	**0.7000 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	**2.0000**	**5.4**	**0.95**	**0.8900**	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	**1.4500**	**6.9**	**1.8**	**0.5640**	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	**1.2000**	**13**	**2.1**	**0.5300**	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	**1.3600**	**9.00**	**1.20 UBL**	**0.5340**	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	**0.7100**	**6.8 ***	**0.46 J***	**0.3500**	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	**0.8990**	**6.76**	**0.683**	**0.3800**	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**	0.00190 U	0.00200 U	0.00700 U	0.00200 U	0.00100 U	0.00320 U	0.00140 U	0.00190 U	0.00210 U	0.00220 U	0.00210 U	0.0100 U	0.00220	0.00150 U	0.00110 U	0.00130 U	0.215 U
MW-11	7/14/2011	0.0500 U	**0.072**	0.05 U	0.0500 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.100 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	0.0510 U	**0.03 UBL**	0.051 U	0.0510 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	0.00090 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	0.00170 U	0.00150 U	0.000900 U	0.000700 U	0.00190 U	0.00200 U	0.00700 U	0.00200 U	0.00100 U	0.00320 U	0.00140 U	0.00190 U	0.00210 U	0.00220 U	0.00210 U	0.0100 U	0.00220	0.00150 U	0.00110 U	0.00130 U	0.215 U
MW-12	7/14/2011	**0.0260 J**	**0.663**	0.05 U	0.0500 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	**0.0170 J**	**0.750**	**0.027 J**	**0.0120 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	**0.0130 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	**0.0370 J**	**0.633**	0.000900 U	0.000700 U	0.00190 U	0.00200 U	0.00700 U	0.00200 U	0.00100 U	0.00320 U	0.00140 U	0.00190 U	0.00210 U	0.00220 U	0.00210 U	0.0100 U	0.00220	0.00150 U	0.00110 U	0.00130 U	0.215 U
MW-13	3/27/2013	0.0017 U	**3.37**	0.00090 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
MW-14	7/12/2011	0.0510 U	0.051 U	0.051 U	0.0510 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	0.0510 U	**0.011 J**	0.051 U	0.0510 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	0.051 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	0.00170 U	0.00150 U	0.000900 U	0.000700 U	0.00190 U	0.00200 U	0.00700 U	0.00200 U	0.00100 U	0.00320 U	0.00140 U	0.00190 U	0.00210 U	0.00220 U	0.00210 U	0.0100 U	0.00220	0.00150 U	0.00110 U	0.00130 U	0.215 U

Table 3: Groundwater Data Summary Table for June 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		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/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-15	4/5/2012	**0.0410 J**	**0.470**	**0.00706 UBL**	0.0510 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
MW-16	7/11/2011	0.0510 U	0.051 U	0.051 U	0.0510 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	0.0570 U	0.057 U	0.057 U	0.0570 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	0.00090 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	0.00170 U	**0.204**	0.000900 U	0.000700 U	0.00190 U	0.00200 U	0.00700 U	0.00200 U	0.00100 U	0.00320 U	0.00140 U	0.00190 U	0.00210 U	0.00220 U	0.00210 U	0.0100 U	0.00220	0.00150 U	0.00110 U	0.00130 U	0.215 U
MW-17	7/13/2011	0.0510 U	**0.420**	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	0.0510 U	**0.013 UBL**	0.051 U	0.0510 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	**0.0100 J**	**0.37**	**0.032 J**	**0.0110 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	**0.300**	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	0.00170 U	**0.388**	0.000900 U	0.000700 U	0.00190 U	0.00200 U	0.00700 U	0.00200 U	0.00100 U	0.00320 U	0.00140 U	0.00190 U	0.00210 U	0.00220 U	0.00210 U	0.0100 U	0.00220	0.00150 U	0.00110 U	0.00130 U	0.215 U
MW-18	7/15/2011	0.0500 U	**0.230**	0.05 U	0.0500 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	0.100 U	5 U
	4/5/2012	0.0520 U	**0.400**	0.052 U	0.0520 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	0.103 U	0.515 U	0.103 U	0.052 U	0.052 U	0.103 U	5.15 U
	3/25/2013	**0.0330 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	0.00170 U	**0.472**	0.000900 U	0.000700 U	0.00190 U	0.00200 U	0.00700 U	0.00200 U	0.00100 U	0.00320 U	0.00140 U	0.00190 U	0.00210 U	0.00220 U	0.00210 U	0.0100 U	0.00220	0.00150 U	0.00110 U	0.00130 U	0.215 U
MW-19	4/5/2012	0.0510 U	**0.036 J**	0.051 U	0.0510 U	0.051 U	0.051 U	0.051 U	**0.080**	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	0.00150 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	0.00170 U	0.00150 U	0.000900 U	0.000700 U	0.00190 U	0.00200 U	0.00700 U	0.00200 U	0.00100 U	0.00320 U	0.00140 U	0.00190 U	0.00210 U	0.00220 U	0.00210 U	0.0100 U	0.00220	0.00150 U	0.00110 U	0.00130 U	0.215 U
MW-20	7/12/2011	**0.4600 J**	**16**	**5.90**	0.0510 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	**0.2040 J**	**10.4**	**2.40 UBL**	**0.0760 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	**0.0790**	**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	**0.0330 J**	**4.15**	**0.158**	0.000700 U	0.00190 U	0.00200 U	0.00700 U	0.00200 U	0.00100 U	0.00320 U	0.00140 U	0.00190 U	0.00210 U	0.00220 U	0.00210 U	0.0100 U	0.00220	0.00150 U	0.00110 U	0.00130 U	0.215 U
MW-21	7/12/2011	**0.2100 J**	**5.8**	**0.42 J**	0.0510 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	51.00 U
	4/5/2012	0.1150 U	**1.90**	**0.05 UBL**	**0.0210 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	0.230 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	**0.1300**	**6.6** *	**0.46 J***	**0.0510**	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	**0.440**	0.000900 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	0.00170 U	**0.414**	0.000900 U	0.000700 U	0.00190 U	0.00200 U	0.00700 U	0.00200 U	0.00100 U	0.00320 U	0.00140 U	0.00190 U	0.00210 U	0.00220 U	0.00210 U	0.0100 U	0.00220	0.00150 U	0.00110 U	0.00130 U	0.215 U
MW-22	4/5/2012	**1.5200 J**	**33.2**	**6.40 UBL**	**0.7050 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	**1.3000** *	**24.4** **	**2.60** *	**0.5400**	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	**1.0900**	**18.8**	**0.818**	**0.7760**	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**	0.00190 U	0.00200 U	0.00700 U	0.00200 U	0.00100 U	0.00320 U	0.00140 U	0.00190 U	0.00210 U	0.00220 U	0.00210 U	0.0100 U	0.00220	0.00150 U	0.00110 U	0.00130 U	0.215 U

Sources: Analytical results for samples collected in April 2012 and earlier are from CH2MHILL 2012, AccuTest 2012, and ECT 201

Notes:
In response to EPD's comment letter on November 2, 2012 to GPA, item number 7 (EPD, 2012b), EIC has removed the superfluous J-flags which the laboratory did not flag, where necessary for the results in the April 2012 beta-BHC detection
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 quantiation limit and above the detection limit
U = Analyte was not detected.
UBL = Value not certain because of detection in equipment blank.
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 corelation

Table 4: Groundwater Data Summary Table for June 2013 Monitoring Event - MNA
GPA Bainbridge Terminal, Bainbridge, Georgia

	Analyte	Ethane	Ethene	Methane	Manganese	TOC*	Chloride*	Nitrate	Sulfate
	Unit	ug/L	ug/L	ug/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	0.00203 U	0.0020 U	0.00187 U	**0.512**	**1.85**	**7.19**	**3.09**	**411**
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	0.00203 U	0.0020 U	0.00187 U	**0.846**	**1.67**	**13.8**	**6.34**	**465**
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	**0.0267 J**	**1.19**	**2.96 J**	**0.174 J**	**11.8**
	6/3/2013	0.00203 U	0.0020 U	0.00187 U	**0.0865**	**1.29**	**3.79 J**	**0.132 J**	**22.6**
MW-3	3/28/2013	NL	NL	NL	NL	NL	NL	NL	NL
	6/6/2013	NS	NS	NS	NS	NS	NS	NS	NS
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	0.00203 U	0.0020 U	0.00187 U	**0.248**	**1.38**	**5.9**	**3.23**	**7.97**
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	0.00203 U	0.0020 U	0.00187 U	**1.81**	**1.16**	**34.3**	**21.8**	**78.3**
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	0.00203 U	0.0020 U	**0.0347**	**1.17**	**5.68**	**585**	**30.2**	**226**
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	0.00203 U	0.0020 U	**0.0358**	**5.25**	**1.32**	**219**	0.0240 U	**687**
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	0.00203 U	0.0020 U	0.00187 U	**6.68**	**2.29**	**16.4**	19.1	**362**
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	0.00203 U	0.0020 U	0.00187 U	**0.969**	**0.844 J**	**34.7**	**14.6**	**294**
MW-9	3/25/2013	NL	NL	NL	NL	NL	NL	NL	NL
	6/6/2013	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	0.00203 U	0.0020 U	0.00187 U	**1.06**	**2.43**	**40.5**	0.024 U	**492**
	6/5/2013	0.00203 U	0.0020 U	0.00187 U	**1.07**	**2.39**	**42.6**	**4.97**	**468**
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	0.00203 U	0.0020 U	0.00187 U	**0.0351 J**	**2.36**	**3.76 J**	**1.22**	**77.5**
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	0.00203 U	0.0020 U	0.00187 U	**0.00740 J**	**0.736 J**	**46**	**15.7**	**135**
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
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	0.00203 U	0.0020 U	**0.00940**	**0.323**	**1.78**	**3.51 J**	**0.0574 J**	**1.76 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
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	0.00203 U	0.0020 U	0.00187 U	**0.0251 J**	**0.679 J**	**1.32 J**	**1.180**	**4.00 J**

Table 4: Groundwater Data Summary Table for June 2013 Monitoring Event - MNA
GPA Bainbridge Terminal, Bainbridge, Georgia

	Analyte	Ethane	Ethene	Methane	Manganese	TOC*	Chloride*	Nitrate	Sulfate
	Unit	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L
Well ID	Sample Date								
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	0.00203 U	0.0020 U	0.00187 U	**0.211**	**1.00 J**	**14.6**	**4.27**	**50**
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	0.00203 U	0.0020 U	0.00187 U	**1.88**	**2.65**	**72.2**	**138**	**155**
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	0.00203 U	0.0020 U	0.00187 U	**0.934**	**2.44**	**32.5**	**96.1**	**227**
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	0.00203 U	0.0020 U	0.00187 U	**0.697**	**1.54**	**10.2**	**3.63**	**115**
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	0.00203 U	0.0020 U	0.00187 U	**0.500**	**1.66**	**7.29**	**1.47**	**54.7**
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	0.00203 U	0.0020 U	0.00187 U	**0.583**	**2.21**	**8.42**	**3.02**	**331**

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

Notes:

Samples delivered to laboratory withing holding time.

Due to high analyte concentrations, laboratory had to perform successive dilution aliquots . Final nitrate analysis performed therefore exceeded the holding time by approximately two hours for MW-18 sample and one hour for MW-19 sample, collected on 03/25/2013.

* Concentrations of TOC (0.68 mg/L) and chloride (0.426 J mg/L) were detected in the equipment blank sampled on 3/26/2013.

MNA = Monitored Natural Attenuation.

TOC = Total Organic Carbon.

ug/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 limit.

1.50 = Result above detection limit.

NM = Contaminant Not Measured.

NL = Well not located

NS = Well not sampled

DRY = Well was dry and therefore could not be sampled

FIGURES

MOUNT OLIVE ROAD

GEORGIA GULF SULFUR

GEORGIA HWY 253

SPRING CREEK ROAD

NORTH PARCEL

AGRIUM

SOUTH PARCEL

ERGON

OFFICE

R.S.W.

W.H.1

W.H.2

W.H.3

N.L.

FLINT RIVER

MW-1

MW-1A

MW-2

MW-3

MW-4U

MW-5A

MW-5D

MW-6

MW-7

MW-8

MW-9

MW-10

MW-11

MW-12

MW-13

MW-14

MW-15

MW-16

MW-17

MW-18

MW-19

MW-20

MW-21

MW-22

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)

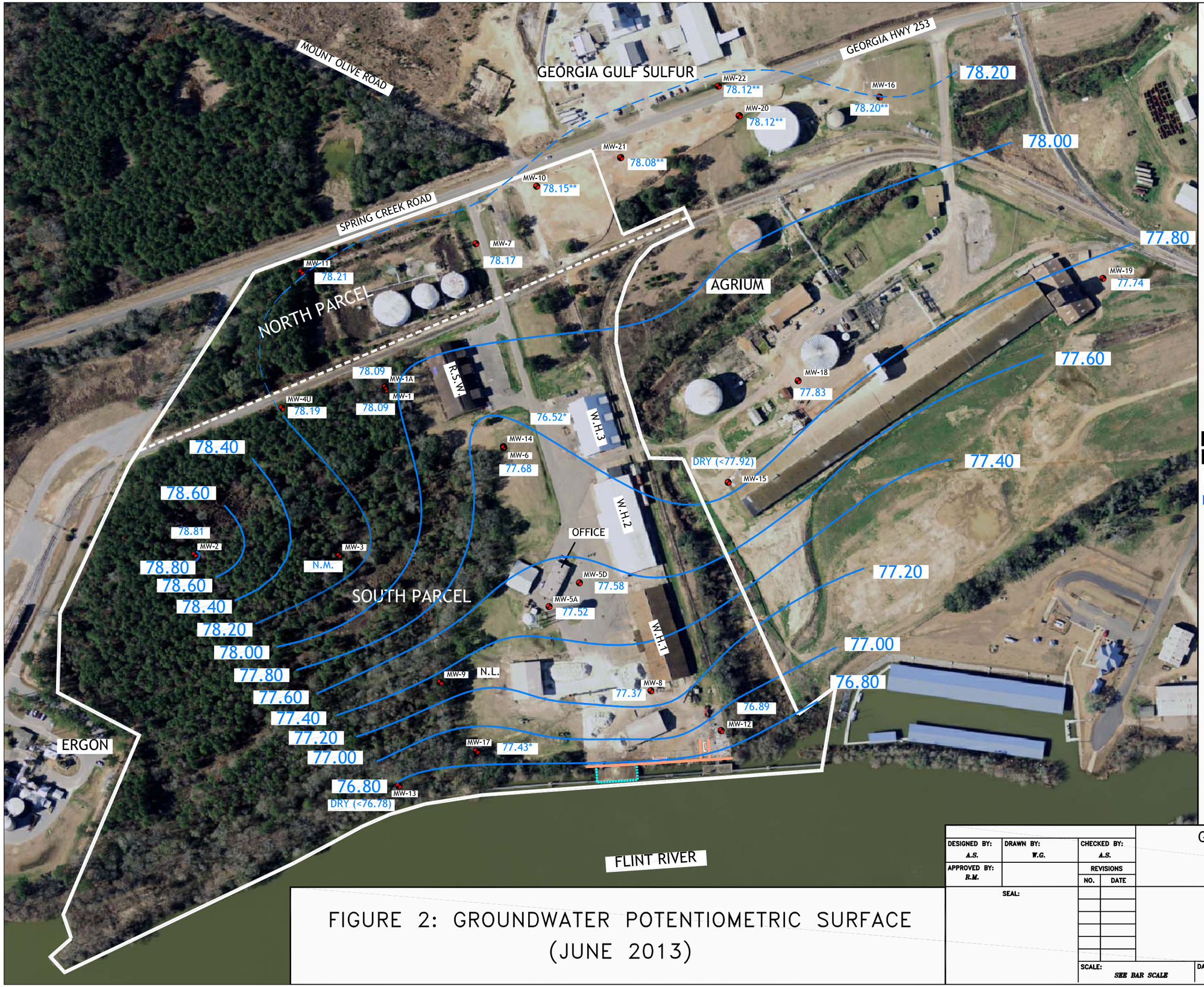
FIGURE 1: SITE MAP

DESIGNED BY: A.S.	DRAWN BY: W.G.	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	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
–79.40	GROUNDWATER ELEVATION CONTOUR
79.31	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., NC ON 6/5/2013. REMAINING GROUNDWATER ELEVATION DATA POINTS ARE DETERMINED WITH TOC ELEVATION DATA FROM MULTIPLE REPORTS PROVIDED BY CH2MHILL
	SHEET PILE BULKHEAD
	EDGE OF PIER
N.M.	NOT MEASURED
DRY<79.40	WELL WAS DRY (ELEVATION OF DEPTH TO BOTTOM MEASUREMENT)

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 2: GROUNDWATER POTENTIOMETRIC SURFACE (JUNE 2013)

DESIGNED BY: A.S.	DRAWN BY: W.G.	CHECKED BY: A.S.	
APPROVED BY: R.M.		REVISIONS NO.	DATE
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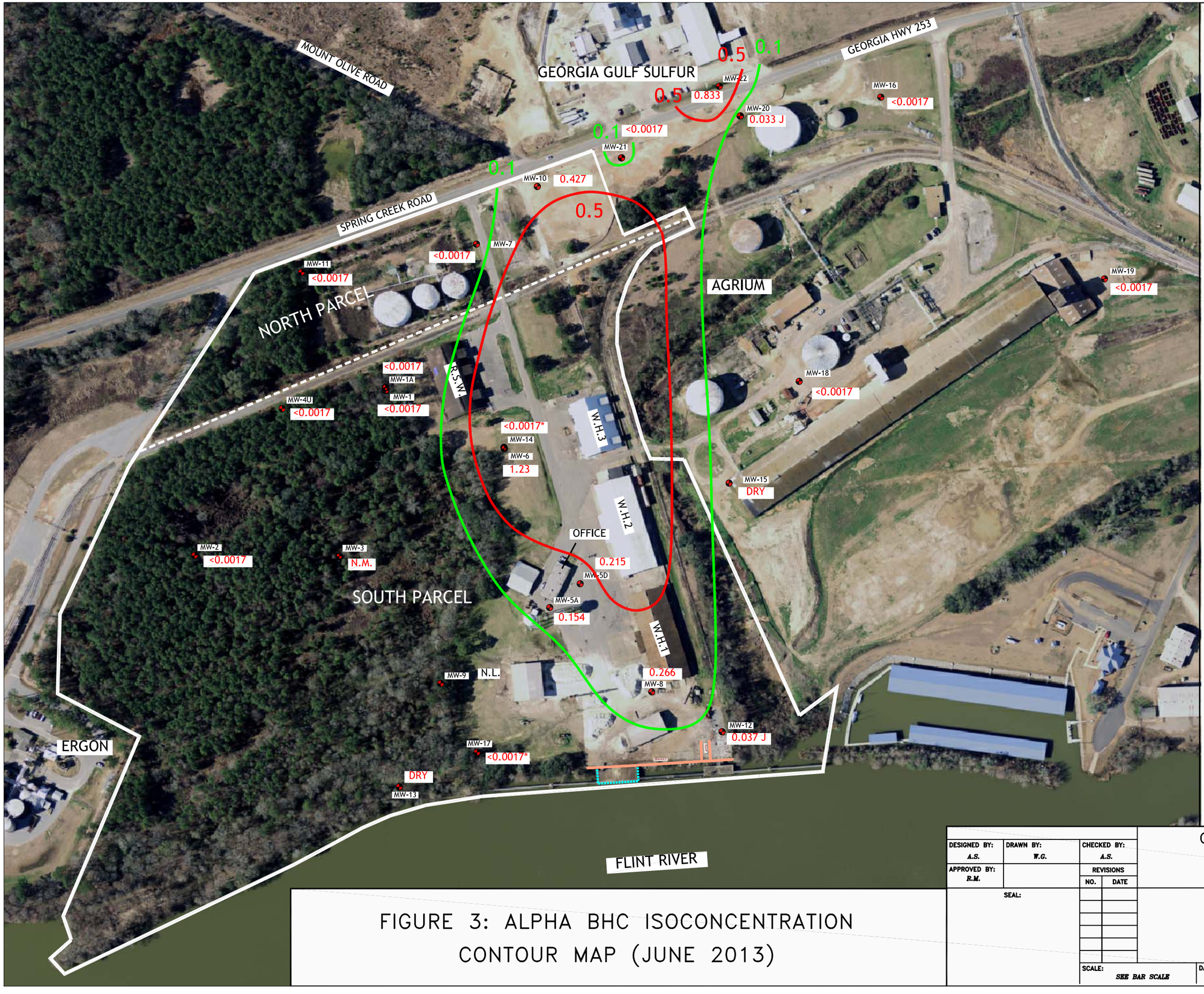
SCALE:	DATE:	FILE:	SHEET NO.:
SEE BAR SCALE	9/26/2013	400007 – 4.5 – GPA BAINBRIDGE	



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
1.23	BHC CONCENTRATION (ug/L)
J	TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTIATION LIMIT AND ABOVE THE DETECTION LIMIT
DRY	WELLS WERE DRY AND UNABLE TO BE SAMPLED
N.M.	NOT MEASURED
	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 3: ALPHA BHC ISOCONCENTRATION CONTOUR MAP (JUNE 2013)

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

SEAL:

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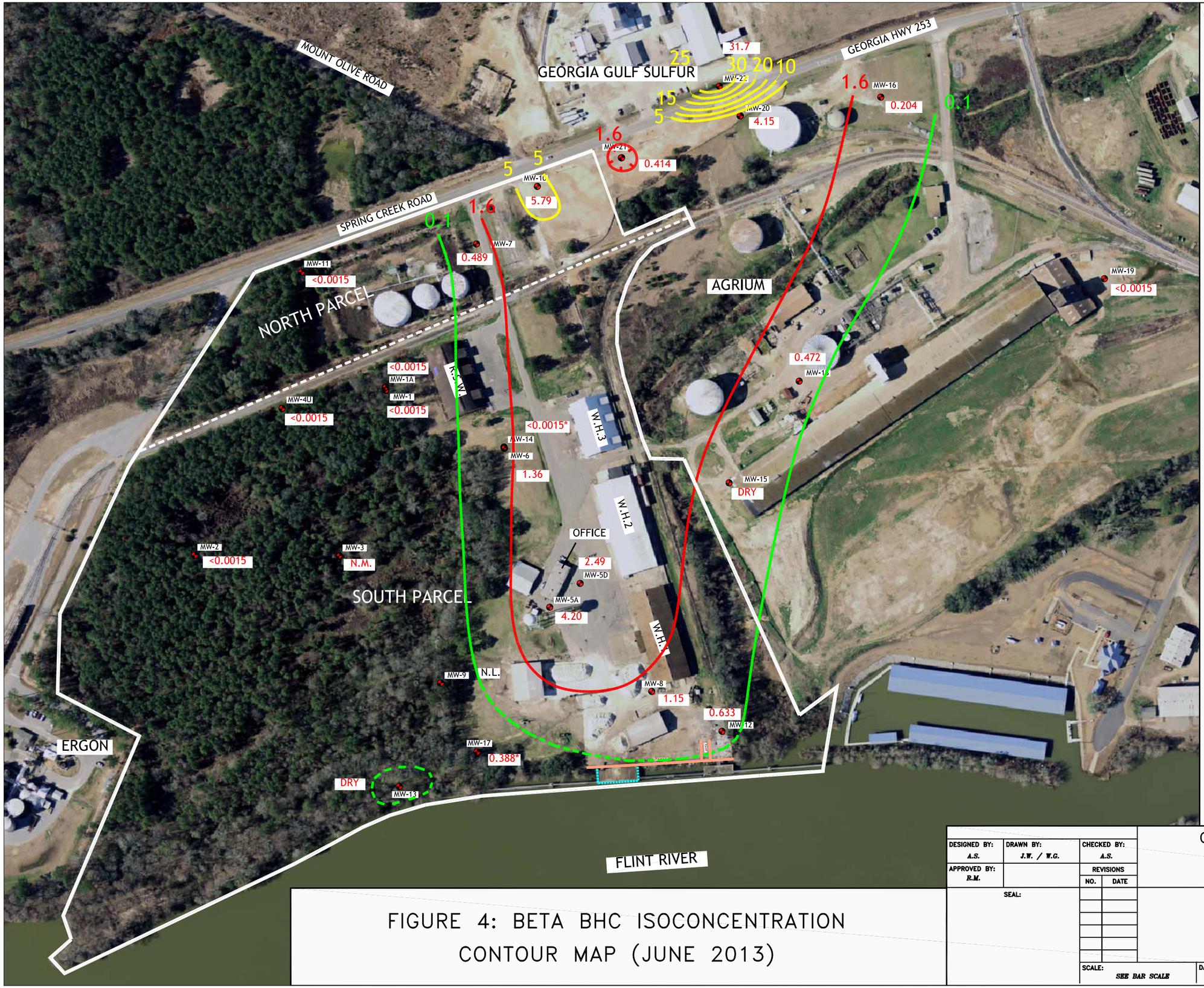
SCALE:	DATE:	FILE:	SHEET NO.:
SEE BAR SCALE	9/23/2013	400007 – 4.5 – GPA BAINBRIDGE	



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
0.119	BHC CONCENTRATION (ug/L)
J	TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTIATION LIMIT AND ABOVE THE DETECTION LIMIT
DRY	WELLS MW–13 AND MW–15 WERE DRY AND UNABLE TO BE SAMPLED
N.M.	NOT MEASURED
	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
	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: BETA BHC ISOCONCENTRATION CONTOUR MAP (JUNE 2013)

DESIGNED BY: A.S.	DRAWN BY: J.W. / W.G.	CHECKED BY: A.S.	
APPROVED BY: R.M.		REVISIONS NO.	DATE
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SCALE:	DATE:	FILE:	SHEET NO.:
SEE BAR SCALE	10/7/2013	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
0.818	BHC CONCENTRATION (ug/L)
J	TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTIATION LIMIT AND ABOVE THE DETECTION LIMIT
DRY	WELLS MW–13 AND MW–15 WERE DRY AND UNABLE TO BE SAMPLED
N.M.	NOT MEASURED
	TYPE 4 RRS LIMIT 0.1 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 5: DELTA BHC ISOCONCENTRATION CONTOUR MAP (JUNE 2013)

DESIGNED BY: A.S.	DRAWN BY: J.W. / W.G.	CHECKED BY: A.S.	
APPROVED BY: R.M.		REVISIONS NO.	DATE
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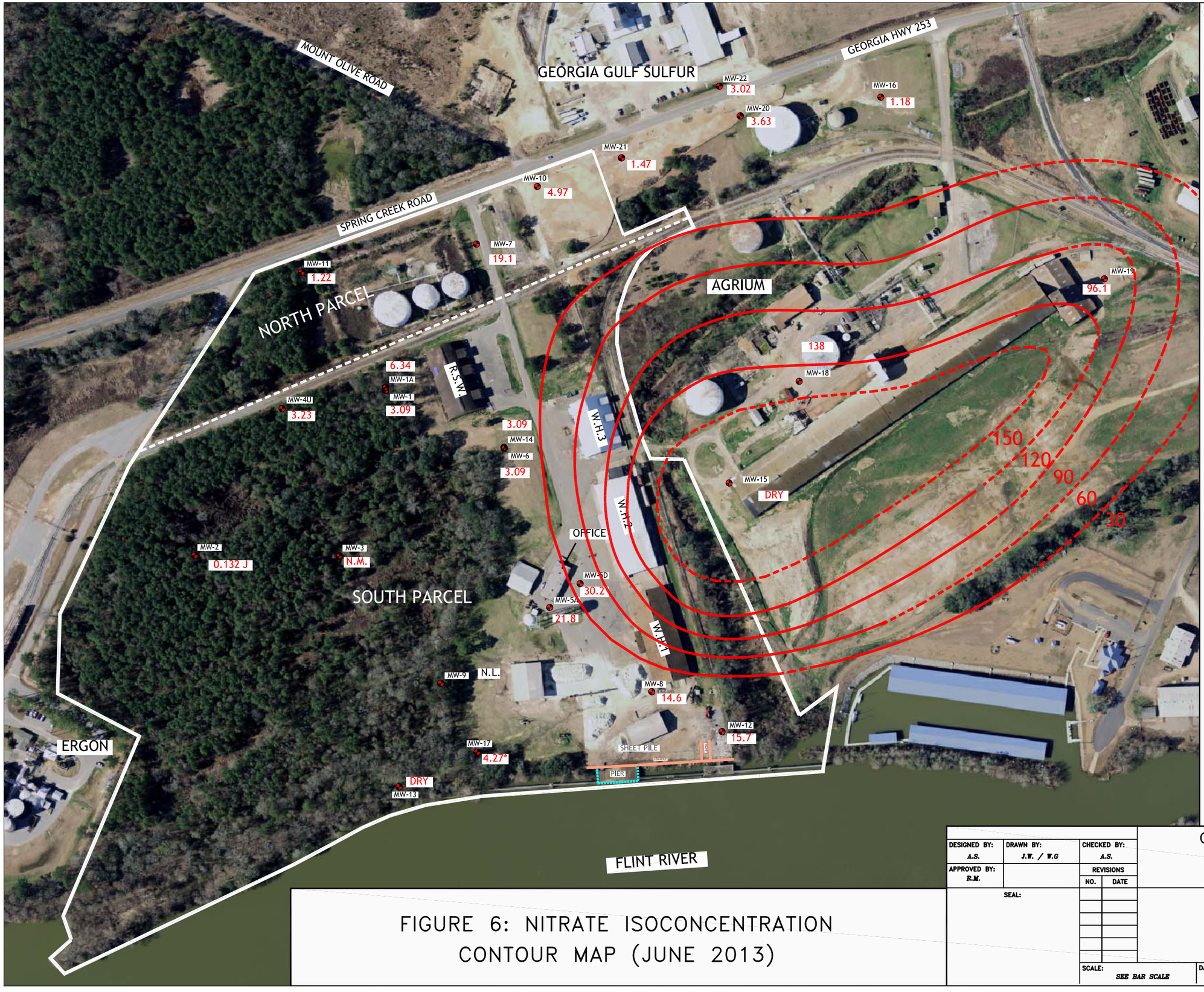
SCALE:	DATE:	FILE:	SHEET NO.:
SEE BAR SCALE	9/23/2013	400007 – 4.5 – GPA BAINBRIDGE	



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
96.1	NITRATE CONCENTRATION (mg/L)
J	TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTIATION LIMIT AND ABOVE THE DETECTION LIMIT
DRY	WELLS MW–13 AND MW–15 WERE DRY AND UNABLE TO BE SAMPLED
N.M.	NOT MEASURED
	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:

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 6: NITRATE ISOCONCENTRATION CONTOUR MAP (JUNE 2013)

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

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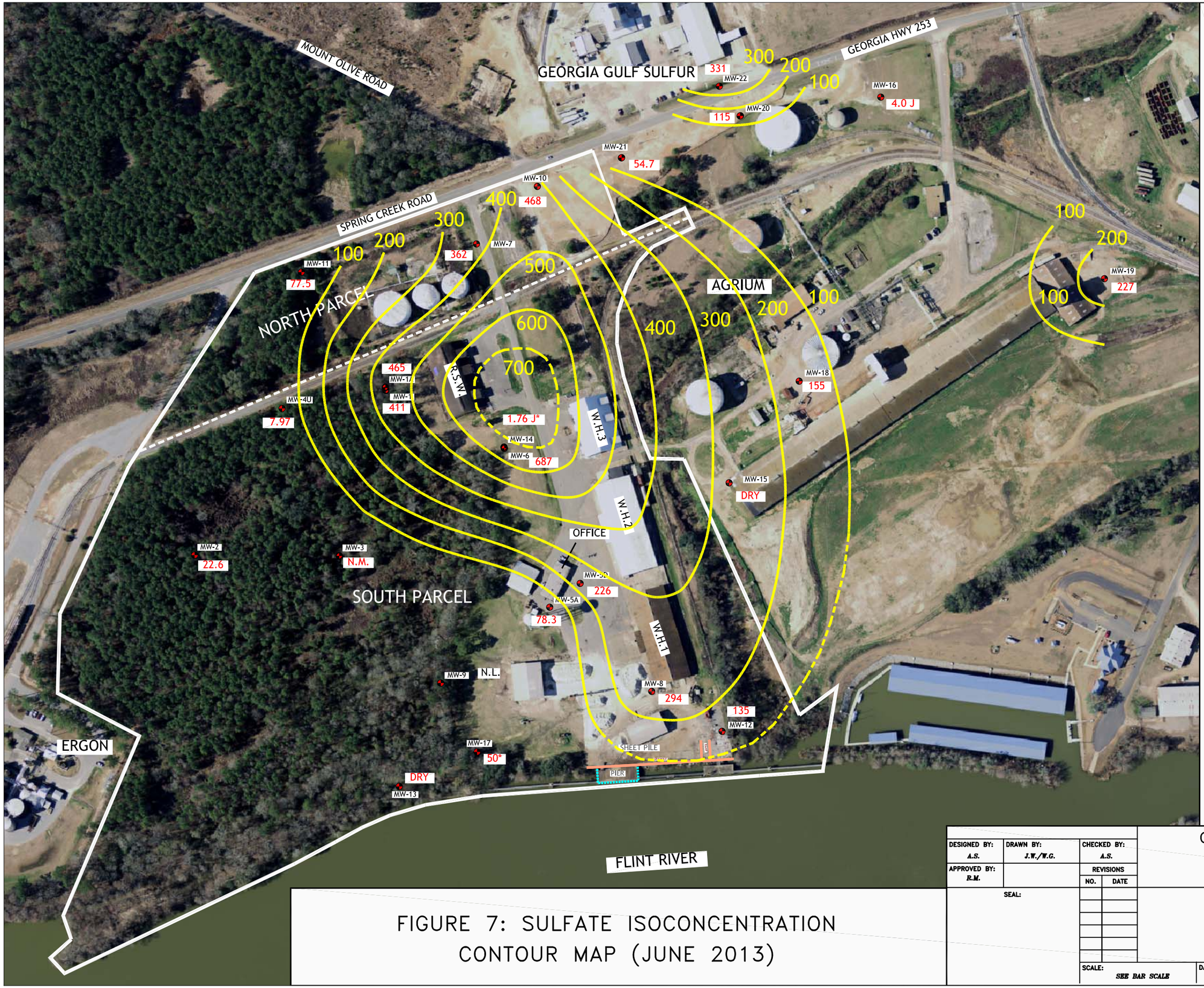
SCALE:	DATE:	FILE:	SHEET NO.:
SEE BAR SCALE	9/26/2013	400007 – 4.5 – GPA BAINBRIDGE	



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
172	SULFATE CONCENTRATION (mg/L)
J	TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTIATION LIMIT AND ABOVE THE DETECTION LIMIT
DRY	WELLS MW–13 AND MW–15 WERE DRY AND UNABLE TO BE SAMPLED
N.M.	NOT MEASURED
	SULFATE CONTOUR LINE
*	SULFATE 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 = 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:

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 7: SULFATE ISOCONCENTRATION CONTOUR MAP (JUNE 2013)

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

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Bainbridge, Georgia

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SCALE:	DATE:	FILE:	SHEET NO.:
SEE BAR SCALE	9/26/2013	400007 – 4.5 – GPA BAINBRIDGE	

ATTACHMENT A

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-1

DATE: 6/4/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: light rain, cloudy, ~85°F, <1mph wind.

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 19.5 FT. TO 29.5 FT. BGS

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | INITIAL WATER LEVEL (BTOC): 27.15 FT. | TIME: 13:45 → Gauge from black mark on casing

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA | BENEATH OUTER CAP: NA | BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

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

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

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.)
13:57	0	28.99	3.59	443	0.363	0.0	3.63	27.16	clear, no odor
14:02	1500	25.40	3.53	490	0.395	0.0	3.35	27.17	
14:07	2900	23.12	3.44	497	0.435	32.1	3.27	27.17	
14:12	~~4200~~ 4220	22.84	3.38	508	0.445	38.2	3.18	27.17	slight showers
14:17	~~5560~~ 5560	22.64	3.35	510	0.452	29.6	3.13	27.17	starting at 14:14

COMMENTS:

SAMPLE COLLECTION TIME: 14:18

PREPARED BY: Jennifer Wilson / Shobhna Kondepudi

* 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.)	33.5
Initial tubing depth (ft.) BTOC	29.5
Final tubing depth (ft.) BTOC	29.5
Initial pump speed	13.45
Initial pump speed initialized at	13:55
Pump speed at flow into cylinder	~~13.45~~ 7.50
Started new roll of tubing at	—

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	~~14~~ 13:03	14:11					

Additional remarks: Distance of stick up from G.S = 2.5'

Slight ~~scatter~~ drizzle at beginning of sampling.

Marked gauging point.

ENVIRONMENTAL INTERNATIONAL CORPORATION

PAGE 1 OF 1

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW - 1A

DATE: 6/4/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: ~85°F, Fair, <1mph wind, humid, few scattered clouds

WELL DIAMETER (IN.) ☐ 1 ☐ 2 ☒ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: ~~18.15~~ FT. TO ~~28.15~~ FT. BGS → 23 to 33 ft.

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | INITIAL WATER LEVEL (BTOC): 27.27 FT. | TIME: 11:10 → Gauged from high side towards nearby railroad

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: ¼" Teflon-lined Tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

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

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

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.)
11:35	0	25.44	3.48	425	0.581	1.6	3.95	~~27.29~~	clear, no odor
11:40	1420	23.03	3.47	479	0.528	2.4	3.68	~~27.29~~	few air bubbles
11:45	2660	22.14	3.48	484	0.583	4.7	3.17	27.29	
11:50	3860	22.10	3.27	500	0.571	4.7	2.84	27.29	
11:55	5080	21.78	3.42	~~460~~ 492	0.589	5.6	2.65	27.29	
12:00	6200	21.69	3.45	491	0.592	4.7	2.54	27.29	
12:05	7340	21.86	3.41	494	0.595	3.8	2.52	27.29	

COMMENTS:

SAMPLE COLLECTION TIME: 12:06

PREPARED BY: Jennifer Wilson / Shobha Kondepudi

* 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	31.5
Final tubing depth (ft.) BTOC	31.5
Initial pump speed	13.50
Initial pump speed initialized at	11:33
Pump speed at flow into cylinder	7.55
Started new roll of tubing at	—

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	11:43	11:50	11:59				

Additional remarks: Height of stick up above GS = 2.85'
few air bubbles in tubing. ~~Clear water~~

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-2

DATE: 6/3/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: 82°F, 5 mph north wind, Mostly cloudy, >90% humidity

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 13 FT. TO 23 FT. BGS

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | INITIAL WATER LEVEL (BTOC): 20.89 FT. | TIME: 13:53

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: ¼" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA | BENEATH OUTER CAP: NA | BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

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

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

Gauged from mark on high side

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.)
14:28	0	25.27	4.81	253	0.212	2.6	7.55	~~20~~ 21.00	Very Clear, Slightly cloudy,
14:33	1380	21.72	4.42	318	0.054	1.1	4.85	~~21.10~~	no odor.
14:38	2860	21.27	4.42	355	0.052	11.2	7.31	21.01	21.01
14:43	4360	21.02	4.54	361	0.054	18.9	6.72	21.01	Water slightly clearer
14:48	5800	20.89	4.33	370	0.055	14.1	6.17	21.01	
14:53	7080	20.90	4.41	366	0.058	11.8	5.63	20.99	
14:58	8260	21.01	4.50	362	0.058	9.5	5.29	20.99	
15:03	9440	21.00	4.33	377	0.057	7.8	5.01	20.99	
15:08	10640	21.14	4.49	375	0.060	7.2	4.82	20.99	
15:13	11840	21.40	4.30	391	0.059	6.1	3.45	20.99	

COMMENTS:

SAMPLE COLLECTION TIME: 15:14

PREPARED BY: Shobhna Kondepudi / Jennifer Wilson

* 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.)	27.5
Initial tubing depth (ft.) BTOC	23.5
Final tubing depth (ft.) BTOC	23.5
Initial pump speed	14:26
Initial pump speed initialized at	13:47
Pump speed at flow into cylinder	7.92
Started new roll of tubing at	

Pump speed reduced to 6.95 at 14:49 & water level in cylindrical flask = 240 mL

First roll of tubing started at MW-2.

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	14:35	14:41	14:48	14:56	15:05		

Additional remarks: Gauged from mark on east-side. Total Height of stick-up is 2.85 feet.

Note: Reasonable attempts were made to stabilize the parameters but due to time constraints, samples were taken.

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-4U

DATE: 6/4/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: ~87°F, High humidity, scattered clouds, <1 mph winds

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ ~~OTHER~~ | WELL SCREEN INTERVAL: 16 FT. TO 31 FT. BGS

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | INITIAL WATER LEVEL (BTOC): 25.35 FT. | TIME: 14:28 → Gauged from black mark on well casing

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA | BENEATH OUTER CAP: NA | BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

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

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

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.)
15:04	0	27.77	3.64	397	0.176	0.6	5.11	~~25.37~~	Clear, few air bubbles
15:09	1340	26.39	3.98	441	0.174	0.2	4.11	25.37	no odor
15:14	2660	24.12	3.50	473	0.181	4.4	4.31	25.37	
15:19	3980	23.59	3.52	475	0.181	4.7	4.32	25.37	
15:24	5260	23.45	3.66	470	0.183	4.2	4.31	~~25.37~~	
15:29 ← ~~15:24~~	6580	23.29	3.65	470	0.186	3.0	4.32	25.37	
15:34	7820	23.44	3.67	470	0.185	2.3	4.29	~~25.37~~	

COMMENTS:

SAMPLE COLLECTION TIME: 15:35

PREPARED BY: Jennifer Wilson / Shobhna Bondepud

* 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.~~	33.0
Initial tubing depth (ft.) BTOC	→	29.0
Final tubing depth (ft.) BTOC	→	29.0
Initial pump speed	13.46	
Initial pump speed initialized at	15:03	
Pump speed at flow into cylinder	7.48	
Started new roll of tubing at	—	

15:19 ↑ 15:28 (2400mL) ↑

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	15:11	~~3:19~~	~~3:28~~				

Additional remarks: Height of stick up = 2.05' above GS.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-5A

DATE: 6/4/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: ~80F, humid, almost completely cloudy, <5mph wind

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 16.5 FT. TO 26.5 FT. BGS

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | INITIAL WATER LEVEL (BTOC): 18.96 FT. | TIME: 18:03 — Gauged from north side of casing

PURGING DEVICE: Pegasus Alexio Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon-lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

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

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

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.)
18:12	0	27.16	4.44	318	0.442	18.0	3.19	19.04	Clear, slight sulfur
18:17	1300	25.80	3.90	417	0.448	13.0	2.24	19.03	odor, small black
18:22	2520	25.22	3.94	426	0.459	13.7	2.16	19.03	particles (oats) in the
18:27	3700	24.98	3.87	434	0.467	12.7	2.07	19.03	tubing

COMMENTS:

SAMPLE COLLECTION TIME: 18:28

PREPARED BY: Shobha Kondepudi

* 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.)	25.0
Initial tubing depth (ft.) BTOC	22.5
Final tubing depth (ft.) BTOC	22.5
Initial pump speed	13.55
Initial pump speed initialized at	18:11
Pump speed at flow into cylinder	7.10
Started new roll of tubing at	—

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	18:19						

Additional remarks: Few Air bubbles in the tubing

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-5D

DATE: 6/4/2013 | PROJECT NAME: GPA bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: Fair, Slightly cloudy, ≤5mph west wind, high humidity,

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 15 FT. TO 25 FT. BGS

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | INITIAL WATER LEVEL (BTOC): 18.35 FT. | TIME: ~~17:54~~ 16:54

Gauged from marker on high side of casing

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon-lined Tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA | BENEATH OUTER CAP: NA | BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

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

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

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.)
17:05	0	30.16	6.23	205	9.07	89.3	2.66	18.62	1 inch black bacteria.
17:10	1700	27.15	6.40	+15	7.88	44.6	0.72	18.61	Slightly cloudy,
17:15	2920	26.19	6.41	-5	7.08	31.8	0.66	18.60	Slight chemical
17:20	4200	25.76	6.35	-3	5.58	12.1	0.59	18.60	odor.
17:25	5480	25.65	6.28	5	5.51	9.1	0.56	18.60	slight yellow
17:30	6740	25.53	6.26	9	5.55	6.7	0.54	18.60	tint

COMMENTS:

SAMPLE COLLECTION TIME: 17:31

PREPARED BY: Shobhna Kondapudi

* 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	~~21.5~~ 22
Final tubing depth (ft.) BTOC	22
Initial pump speed	13.48
Initial pump speed initialized at	17:04
Pump speed at flow into cylinder	7.5
Started new roll of tubing at	—

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	17:11	17:19	17:27				

Additional remarks: Few black particles in the tubing. Few air bubbles in tubing. Black oats in the well & found on probe

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-6

DATE: 6/5/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: 85°F, scattered clouds, high humidity, ~5mph wind

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 47 FT. TO 52 FT. BGS

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | INITIAL WATER LEVEL (BTOC): 24.38 FT. | TIME: 16:20 Gauged from high side of casing

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: ¼" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

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

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

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.)
~~16:38~~ 16:38	0	23.56	4.65	234	1.46	83.4	3.90	25.47	Clear few bubbles
16:43	1000	23.19	4.01	306	1.50	60.4	3.04	25.95	no odor
16:48	2180	23.05	5.18	148	1.59	47.7	1.74	26.24	
16:53	3300	23.19	5.48	87	1.68	37.3	1.24	26.35	
16:58	4360	23.04	5.53	71	1.72	47.9	0.91	26.38	
17:03	5460	23.17	5.50	72	1.72	41.1	0.70	26.38	

COMMENTS:

SAMPLE COLLECTION TIME: 17:04

PREPARED BY: Shobhna Kondepudi

* 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.)	52.5
Initial tubing depth (ft.) BTOC	49.5
Final tubing depth (ft.) BTOC	49.5
Initial pump speed	~~13.37~~ 13.39 speed
Initial pump speed initialized at	~~16:37~~ → 16:37
Pump speed at flow into cylinder	~~7:50~~ → 7:50
Started new roll of tubing at	→ Started new tubing roll; small amount of tubing left on first spool, to be utilized at a future well, since this well is deeper than the length of tubing left on first spool

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	16:47	16:56					

Additional remarks: Slight drizzle during sampling. E/C waited until the rainfall lessened to a slight drizzle & then started the purging & sampling.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-7

DATE: 6/3/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: 85°F, ~~mist~~ med-high clouds, 4 mph wind, 95% humidity

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 15 FT. TO 26 FT. BGS

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | INITIAL WATER LEVEL (BTOC): ~~20~~ 19.99 FT. | TIME: 15:51

Gauged from mark on south high side of casing

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tube ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA | BENEATH OUTER CAP: NA | BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

ANALYTICAL PARAMETERS: 8081B/8056A/8260A/6010C/RSK 175

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

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.)
16:05	0	24.38	3.77	364	0.536	198	3.62	20.01	Dark brown, black organic
16:10	990	23.19	3.64	390	0.559	43.5	2.69	20.02	material within first half
16:15	2560	23.26	3.70	395	0.558	9.1	2.40	20.01	inch. Silty/Tan colored.
16:20	3780	23.30	3.57	405	0.550	3.6	3.39	20.01	Extremely cloudy, No
16:25	4960	23.39	3.67	395	0.540	4.7	3.20	20.01	odor.
16:30	6060	23.71	3.69	395	0.540	4.3	2.11	20.01	→ Few air bubbles
16:35	7160	24.07	3.66	398	0.535	4.1	2.91	20.01	observed in tubing

COMMENTS:

SAMPLE COLLECTION TIME: 16:36

PREPARED BY: Shobhna Kondepudi / Jennifer Wilson

* 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
Initial tubing depth (ft.) BTOC	23
Final tubing depth (ft.) BTOC	21.5
Initial pump speed	13.43
Initial pump speed initialized at	16:03
Pump speed at flow into cylinder	6.93
Started new roll of tubing at	

→ Tubing hit bottom at around 22.5', thereby tubing lowered to 21.5 ft only.

→ Speed reduced to 6.53 at 16:22 at water level in cylinder at 300mL, to reduce air bubbles

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	16:12	16:20	16:29				

Additional remarks: Few air bubbles in tubing.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-8

DATE: 6/5/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: ~80°F, partly cloudy, fair, <5mph East wind, high humidity

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 13 FT. TO 23 FT. BGS

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | INITIAL WATER LEVEL (BTOC): 16.02 FT. | TIME: 9:14

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: ¼" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

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

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

Gauged from mark on north side of casing

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.)
9:21	0	24.21	3.71	363	1.22	3.1	1.61	16.03	Clear, no odor
9:26	1300	23.77	3.91	457	0.828	5.2	2.45	16.03	no air bubbles
9:31	3120	23.83	3.92	463	~~0.74~~ 0.750	7.5	2.54	16.03	
9:36	4100	23.93	3.92	465	0.751	3.8	2.38	16.03	
9:41	5500	23.97	3.90	467	0.758	1.3	2.26	16.03	

COMMENTS:

SAMPLE COLLECTION TIME: 9:42

PREPARED BY: Shobhna Kondapudi

* 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	19.5
Final tubing depth (ft.) BTOC	19.5
Initial pump speed	13.50
Initial pump speed initialized at	9:20
Pump speed at flow into cylinder	7.51
Started new roll of tubing at	—

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	9:28	9:35					

Additional remarks: Spotted few air bubbles in the tubing. Marked casing on north side

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-10

DATE: 6/5/2013 | PROJECT NAME: GPA-Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: ~85°F, high humidity, <1 mph wind, partly cloudy

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 20 FT. TO 30 FT. BGS

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | INITIAL WATER LEVEL (BTOC): 21.87 FT. | TIME: 17:39

PURGING DEVICE: Pegasus Flexio Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

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

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

Gauged from mark on casing towards spray cap lead

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.)
17:49	0	25.38	3.90	383	0.891	0.4	3.27	22.10	Clear, no odor
17:54	1140	22.45	3.83	448	0.936	1.1	2.66	22.21	few air bubbles
17:59	2360	22.22	3.84	458	0.936	0.3	2.40	22.33	
18:04	3500	22.32	3.73	~~457~~ 471	0.930	0.4	2.17	22.38	

COMMENTS:

SAMPLE COLLECTION TIME: 18:05

PREPARED BY: Shobha Kondepudi

* 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	26
Final tubing depth (ft.) BTOC	26
Initial pump speed	13.43
Initial pump speed initialized at	17:47
Pump speed at flow into cylinder	7.54
Started new roll of tubing at	

→ Utilized the left over tubing from first sampling for this well.

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	17:57						

Additional remarks: few air bubbles

Collected duplicate sample at 18:13

Collected equipment blank after sampling MW-10.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-11

DATE: 6/4/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: ~85°F, Fair, no clouds, humid, < 1mph wind

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 17 FT. TO 27 FT. BGS

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | INITIAL WATER LEVEL (BTOC): 22.71 FT. | TIME: 8:41

PURGING DEVICE: Pegasus Alexis Peristaltic pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

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

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

Gauged from mark on casing towards spring creek road

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.)
9:51	0	24.18	3.87	329	0.180	74.1	5.52	22.75	1/2" bacteria (black) in the tubing initially.
9:56	1300	22.85	3.56	417	0.184	63.4	4.07	22.75	
10:01	2400	21.68	3.69	422	0.190	71.2	3.73	22.75	No odor.
10:06	3560	21.44	3.47	441	0.197	70.4	3.59	22.75	Slightly cloudy water.
10:11	4700	21.49	3.67	433	0.196	71.6	3.48	22.75	
10:16	5840	21.53	3.60	451	0.196	60.3	3.41	22.25	
10:21	7060	21.60	3.65	446	0.198	54.8	3.33	22.25	

COMMENTS:

SAMPLE COLLECTION TIME: 10:22

PREPARED BY: Shobhna Kondepudi

* 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	13:51
Initial pump speed initialized at	9:03
Pump speed at flow into cylinder	7.46
Started new roll of tubing at	—

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	10:00	10:07	10:16				

Additional remarks: Few air bubbles in the tubing. Marked well camp.

(XX) The tubing loosed the first time was damaged (had cuts) and thereby caused no suction. Therefore, new tubing was placed in the well to conduct purging & sampling. Delay was caused due to this damaged tubing.

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-12

DATE: 6/5/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: ~78°F, Fully cloudy, high humidity, <5mph N-wind

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 12 FT. TO 22 FT. BGS

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | INITIAL WATER LEVEL (BTOC): 17.00 FT. | TIME: 8:20

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

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

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

Gauged from mark on north side of casing

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.)
8:29	0	22.64	6.64	203	0.836	2.3	1.87	17.31	Clear, slight chemical odor.
8:34	1500	21.37	6.87	203	0.853	0.9	1.23	17.27	
8:39	2860	21.35	6.89	200	0.855	0.0	1.00	17.26	
8:44	4240	21.30	6.83	200	0.856	0.0	0.89	17.26	

COMMENTS:

SAMPLE COLLECTION TIME: 8:45

PREPARED BY: Shobhna Kondepudi

* 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.)	23
Initial tubing depth (ft.) BTOC	19.5
Final tubing depth (ft.) BTOC	19.5
Initial pump speed	13.50
Initial pump speed initialized at	8:27
Pump speed at flow into cylinder	7:55
Started new roll of tubing at	—

(2300 mL)

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	8:37	8:44					

Additional remarks: Marked well casing for gauging point

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-13

DATE: 6/6/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 406007

WEATHER CONDITIONS: Overcast, 80% humidity, < 1 mph wind, ~ 80°F.

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 12 FT. TO 22 FT. BGS

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | INITIAL WATER LEVEL (BTOC): 16.51 FT. | TIME: 9:10

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☐ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

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

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

Gauged from mark on well casing

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: Sample Not Collected since well was dry

PREPARED BY: Shobhna Kondepudi

* 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	
Initial pump speed initialized at	
Pump speed at flow into cylinder	
Started new roll of tubing at	

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket							

Additional remarks: Depth to bottom = 16.57. Well was dry. (Marked gauging point), No silt and no odor on oil water probe. Few grass particles found on probe

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-14

DATE: 6/5/13 | PROJECT NAME: QPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: Fully cloudy (heavy rainfall before starting), ~80°F, 15 mph wind, high humidity

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 67 FT. TO 72 FT. BGS

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | INITIAL WATER LEVEL (BTOC): 25.39 FT. | TIME: 15:25 → Gauged from north side of casing

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: ¼" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

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

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

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.)
15:27	0	21.80	6.93	-113	0.312	26.6	3.11	25.25	Blackish tinge to water
15:32	2120	21.41	7.22	-160	0.304	20.6	1.19	25.91	Slight pesticide odor &
15:37	3800	21.34	7.08	-148	0.288	16.5	0.98	26.10	slight rotten egg odor
15:42	5200	21.33	6.97	-136	0.274	14.4	0.90	26.15	few air bubbles in
15:47	6780	21.31	6.90	-127	0.265	11.4	0.81	26.15	water.
15:52	8200	21.37	6.92	-121	0.270	9.9	0.82	26.15	Slight blmish tinge to water.

COMMENTS:

SAMPLE COLLECTION TIME: 15:53

PREPARED BY: Shobhna Kondapudi

* 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.)	73.5
Initial tubing depth (ft.) BTOC	→ 69.5
Final tubing depth (ft.) BTOC	→ 69.5
Initial pump speed	10.05
Initial pump speed initialized at	15:26
Pump speed at flow into cylinder	10:00
Started new roll of tubing at	—

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	15:31	15:38	15:44	15:51			

Additional remarks: Well sampled with rain water in the well casing. Rain water was not bailed out.

Torrential/Heavy rainfall before sampling which interrupted first attempt at sampling. EIC began activities after Rainfall lessened

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-15

DATE: 4/6/2013 | PROJECT NAME: 400007 | PROJECT NO: 400007

WEATHER CONDITIONS: Slight drizzle, overcast, high humidity, ~75°F, steady 5mph E wind

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 13 FT. TO 19.2 FT. BGS

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | INITIAL WATER LEVEL (BTOC): 20.11 FT. | TIME: 14:11 → Gauged from mark on casing

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

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

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

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: Sample could not be collected, since well was dry.

PREPARED BY: Shobhne Kondepudi

* 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	
Initial pump speed initialized at	
Pump speed at flow into cylinder	
Started new roll of tubing at	

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket							

Additional remarks: Depth to bottom = 20.11. Depth to Water = 20.11 → Measured at 14:11

1/200 ft brown colored silt at the bottom

Marked N-side as gauging point

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-16

DATE: 6/5/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: ~85°F, high humidity, mostly cloudy, <1 mph wind

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 14 FT. TO 24 FT. BGS

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | INITIAL WATER LEVEL (BTOC): 18.97 FT. | TIME: 11:30

Gauged from mark on casing towards spring creek road

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

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

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

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.)
11:40	0	24.33	5.67	229	0.025	3.7	7.40	19.02	Clear, no odor
11:45	1480	22.49	4.71	341	0.026	0.0	6.65	19.02	few air bubbles in
11:50	2880	22.10	4.85	360	0.027	0.0	6.50	19.02	the tubing.
11:55	4260	22.04	4.91	368	0.027	0.9	6.36	19.02	
12:00	5700	21.94	4.83	381	0.027	2.3	6.34	19.02	

COMMENTS:

SAMPLE COLLECTION TIME: 12:01

PREPARED BY: Shobhna Kondepudi

* 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.)	~~25.5~~ 25.5
Initial tubing depth (ft.) BTOC	21.5
Final tubing depth (ft.) BTOC	21.5
Initial pump speed	13.50
Initial pump speed initialized at	11:39
Pump speed at flow into cylinder	7.50
Started new roll of tubing at	—

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	11:46	11:54					

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-17

DATE: 6/5/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: ~90°F, Scattered Clouds, <1mph wind, high humidity

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 50 FT. TO 60 FT. BGS

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | INITIAL WATER LEVEL (BTOC): 16.07 FT. | TIME: 10:15

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon-lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

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

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

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.)
10:27	0	23.65	6.57	280	0.381	1.7	2.61	16.10	Clear, no odor,
10:32	1720	21.68	7.24	231	0.508	2.0	1.14	16.10	few air bubbles
10:37	3300	21.68	7.28	207	0.508	10.9	0.87	16.10	in the tubing
10:42	4580	21.74	7.26	195	0.502	14.2	0.76	16.10	

Gauged from mark on eastern side of casing

COMMENTS:

SAMPLE COLLECTION TIME: 10:43

PREPARED BY: Shobhna Kondepudi

* 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.)	60
Initial tubing depth (ft.) BTOC	55
Final tubing depth (ft.) BTOC	55
Initial pump speed	13.45
Initial pump speed initialized at	10:25
Pump speed at flow into cylinder	7.50
Started new roll of tubing at	-

(2400mL)

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	10:33	10:41					

Additional remarks:

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-18

DATE: 6/6/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: ~ 75 °F, 1 inch rain, high humidity, & 5mph wind.

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 22 FT. TO 32 FT. BGS

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | INITIAL WATER LEVEL (BTOC): 17.65 FT. | TIME: 15:50 (gauged from mark on casing (on north side))

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☒ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

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

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

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.)
16:01	0	23.46	6.18	330	2.22	3.8	1.72	17.68	Clear, few air bubbles
16:06	1400	23.35	6.26	293	2.28	0.0	0.96	17.68	in tubing, no odor
16:11	2700	23.35	6.29	276	2.28	0.2	0.86	17.68	
16:16	4000	23.32	6.20	271	2.27	0.0	0.80	17.68	

COMMENTS:

SAMPLE COLLECTION TIME: 16:17

PREPARED BY: Shobha Kondepudi

* 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	27
Final tubing depth (ft.) BTOC	27
Initial pump speed	13.50
Initial pump speed initialized at	16:00
Pump speed at flow into cylinder	7'50
Started new roll of tubing at	—

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	16:08	16:16					

Additional remarks: Well vault lid was rotated so that less water could get in the vault. Slight rain during sampling. ~~test~~

ENVIRONMENTAL INTERNATIONAL CORPORATION

PAGE 1 OF 1

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-19

DATE: 6/6/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: ~90% humidity, overcast, slight drizzle, ~75°F, steady 5mph East wind.

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 22 FT. TO 32 FT. BGS

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | INITIAL WATER LEVEL (BTOC): 18'80 FT. | TIME: 14:46

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon-lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

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

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

gauged from mark on casing on north side

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.)
14:56	0	22.74	3.69	423	1.23	7.7	1.96	18.81	Clear, no odor
15:01	1260	22.68	3.66	467	1.26	0.4	1.10	18.81	
15:06	2560	22.61	3.67	469	1.27	0.0	0.82	18.81	
15:11	2840	22.58	3.56	476	1.27	0.0	0.70	18.82	few air bubbles in
15:16	5180	22.53	3.66	470	1.26	0.0	0.64	18.82	tubing
15:21	6500	22.51	3.66	470	1.26	0.0	0.59	18.82	

COMMENTS:

SAMPLE COLLECTION TIME: 15:22

PREPARED BY: Shobhna Kondepudi

* 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.)	~~27.0~~ 31.0
Initial tubing depth (ft.) BTOC	~~31.0~~ 27.0
Final tubing depth (ft.) BTOC	27.0
Initial pump speed	13.56
Initial pump speed initialized at	14:55
Pump speed at flow into cylinder	7.51
Started new roll of tubing at	—

Note :→ Matrix spike collected at 15:30.

→ Measured & Marked N-side of well.

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	15:03	15:11	15:19				

Additional remarks: Tubing reached below the apparent depth to bottom (estimated in March 2013). Thereby, since the apparent DTB coincided with known top of screen, there is a possibility of the screen being offset.

→ The distance from well to old building west of well is 55 feet. 90° ~~north~~ south of that point and 60 feet.

Note: No bolts on well vault. The vault lid was rotated so that less water could get in & well vault would not be bailed out.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-20

DATE: 6/6/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: Overcast, Known tropical storm approaching from Gulf of Mexico, 75°F, ~3-5 bn, Evrna, high humidity

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 22 FT. TO 32 FT. BGS

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | INITIAL WATER LEVEL (BTOC): 18.49 FT. | TIME: 9:41

Measured from main on casing towards spring creek road

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

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

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

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.)
9:49	0	21.37	4.11	344	0.177	8.4	7.04	18.51	Clear, very very
9:54	1600	20.89	3.98	398	0.184	3.4	6.57	18.50	slight chemical
9:59	2940	20.85	4.02	414	0.205	1.9	6.22	18.50	odor, few air
10:04	4000	20.85	3.90	432	0.220	1.2	6.03	18.50	bubbles in tubing
10:09	5380	20.84	3.87	446	0.247	1.1	5.90	18.51	
10:14	6760	20.83	3.98	448	0.252	0.5	5.66	18.50	False LNAPL
10:19	8160	20.85	3.91	456	0.254	0.7	5.51	18.50	reading
10:24	9540	20.87	3.90	458	0.255	0.0	5.49	18.50	

COMMENTS:

SAMPLE COLLECTION TIME: 10:25

PREPARED BY: Shobhna Kondepudi

* 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	27
Final tubing depth (ft.) BTOC	27
Initial pump speed	13.53
Initial pump speed initialized at	9:48
Pump speed at flow into cylinder	7.48
Started new roll of tubing at	—

(2080mL)

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	9:56	10:04	10:11	10:18			

Additional remarks: Pesticide odor upwind during sample. No visible observation of the source.

ENVIRONMENTAL INTERNATIONAL CORPORATION

PAGE 1 OF 1

WELL PURGING AND SAMPLING DATA LOG

6/6/2013

WELL/SAMPLE NO: MW-21

DATE: ~~6/5/2013~~ PROJECT NAME: GPA Bainbridge PROJECT NO: 400007

WEATHER CONDITIONS: Fully cloudy (overcast), periodic drizzle, consistent 5mph E wind, 80% humidity

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 22 FT. TO 32 FT. BGS

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | INITIAL WATER LEVEL (BTOC): 19.50 FT. | TIME: 8:10

PURGING DEVICE: Regasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon Lined Tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☒ ALCONOX WASH ☐ ISOPROPANOL ☒ DIST/DEION 1 RINSE ☐ DIST/DEION FINAL RINSE ☒ AIR DRY

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

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

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

Measured from mark on casing towards spring creek road

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.)
8:27	0	21.50	5.01	298	0.204	16.9	6.11	19.52	First one inch of brown
8:32	1360	20.84	5.03	350	0.191	8.7	5.23	19.57	water. No particulates,
8:37	2740	20.78	4.99	351	0.191	8.0	5.06	19.57	few air bubbles,
8:42	4060	20.77	4.99	354	0.189	7.3	5.02	19.57	slightly cloudy,
									No odor

COMMENTS:

SAMPLE COLLECTION TIME: 8:43

PREPARED BY: Shobhna Kondepudi

* 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.)	30
Initial tubing depth (ft.) BTOC	27
Final tubing depth (ft.) BTOC	27
Initial pump speed	13.54
Initial pump speed initialized at	8:26
Pump speed at flow into cylinder	7.52
Started new roll of tubing at	—

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	8:34	8:41					

Additional remarks: Marked gauging point towards the road.

ENVIRONMENTAL INTERNATIONAL CORPORATION

PAGE 1 OF 1

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-22

DATE: 6/6/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: Overcast, humid, .5mph N-E wind, ~75°F,

WELL DIAMETER (IN.) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ OTHER | WELL SCREEN INTERVAL: 24 FT. TO 34 FT. BGS

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | INITIAL WATER LEVEL (BTOC): 20.78 FT. | TIME: 11:10

PURGING DEVICE: Pegasus Alexis Peristaltic Pump ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon-lined tubing ☐ DEDICATED ☒ DISPOSABLE ☐ DECONTAMINATED

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

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

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

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

Measure from mark on casing opposite spring creek Rd → false LNAPL reading

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.)
11:20	0	22.22	3.59	388	0.600	10.5	2.80	20.87	Clear, few air bubbles (about every foot), no odor.
11:25	1200	22.01	3.46	451	0.619	27.8	2.01	20.86	
11:30	2480	21.97	3.59	460	0.620	23.2	2.01	20.87	
11:35	3640	21.95	3.43	475	0.595	12.9	2.18	20.87	
11:40	5120	21.95	3.61	464	0.584	7.1	2.45	20.87	
11:45	6420	21.95	3.64	463	0.575	4.5	2.41	20.87	
11:50	7120	21.95	3.42	477	0.566	2.9	2.43	20.87	
11:55	10000	21.94	3.63	463	0.561	2.1	2.40	20.87	
12:00	12340	21.95	3.63	466	0.558	1.3	2.40	20.88	
12:05	11600	21.95	3.57	472	0.559	0.7	2.48	20.87	

COMMENTS:

SAMPLE COLLECTION TIME: 12:06

PREPARED BY: Shobhna Kondepudi

* 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	13.52
Initial pump speed initialized at	11:19
Pump speed at flow into cylinder	7.55
Started new roll of tubing at	—

	Time (1980 mL)	Time	Time	Time (2060 mL)	Time	Time	Time
2,000 mL volume poured into bucket	11:28	11:35	11:43	11:51	11:59		

Additional remarks: Matrix spike collected at 12:13

Marked gauging point

ATTACHMENT B

Analytical Report 464368

for

Environmental International Corporation

Project Manager: Alan Sanders

GPA Bainbridge

400007

11-JUN-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 (T104704215-10-6-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)

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Chain of Custody	10
Sample Receipt Conformance Report	11

XENCO Laboratories
Florida Testing Services, LLC

11-JUN-13

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

Reference: XENCO Report No(s): **464368**
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) 464368. 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. 464368 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,

Dijana Piljak

Dijana Piljak
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 464368

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-2	W	06-03-13 15:14		464368-001
MW-7	W	06-03-13 16:36		464368-002

Certificate of Analytical Results 464368

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-2** Matrix: Water Date Received:06.04.13 13.05

Lab Sample Id: 464368-001 Date Collected: 06.03.13 15.14

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 06.04.13 11.56

Seq Number: 915374

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3.79**	5.00	0.104	mg/L	06.04.13 14.33	J	1
Nitrate as N	14797-55-8	**0.132**	1.00	0.0240	mg/L	06.04.13 14.33	J	1
Sulfate	14808-79-8	**22.6**	5.00	0.168	mg/L	06.04.13 14.33		1

Certificate of Analytical Results 464368

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-7** Matrix: Water Date Received:06.04.13 13.05

Lab Sample Id: 464368-002 Date Collected: 06.03.13 16.36

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 06.04.13 11.56

Seq Number: 915374

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**16.4**	5.00	0.104	mg/L	06.04.13 14.51		1
Nitrate as N	14797-55-8	**19.1**	2.00	0.0480	mg/L	06.04.13 16.53	D	2
Sulfate	14808-79-8	**362**	50.0	1.68	mg/L	06.05.13 12.51	D	10

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 quantiation 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: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 915374 Matrix: Water Date Prep: 06.04.13
MB Sample Id: 639167-1-BLK LCS Sample Id: 639167-1-BKS LCSD Sample Id: 639167-1-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	10.9	109	10.8	108	80-120	1	15	mg/L	06.04.13 12:48	
Nitrate as N	<0.0240	1.00	1.06	106	1.04	104	80-120	2	15	mg/L	06.04.13 12:48	
Sulfate	<0.168	10.0	10.8	108	10.7	107	80-120	1	15	mg/L	06.04.13 12:48	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 915504 Matrix: Water Date Prep: 06.05.13
MB Sample Id: 639244-1-BLK LCS Sample Id: 639244-1-BKS LCSD Sample Id: 639244-1-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	10.9	109	10.9	109	80-120	0	15	mg/L	06.05.13 11:24	
Nitrate as N	<0.0240	1.00	1.01	101	1.01	101	80-120	0	15	mg/L	06.05.13 11:24	
Sulfate	<0.168	10.0	9.93	99	9.89	99	80-120	0	15	mg/L	06.05.13 11:24	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 915374 Matrix: Water Date Prep: 06.04.13
Parent Sample Id: 464368-001 MD Sample Id: 464368-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3.79	3.36	12	15	mg/L	06.04.13 15:43	J
Nitrate as N	0.132	0.132	0	15	mg/L	06.04.13 15:43	J
Sulfate	22.6	23.1	2	15	mg/L	06.04.13 15:43	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 915504 Matrix: Water Date Prep: 06.05.13
Parent Sample Id: 464459-001 MD Sample Id: 464459-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3.76	3.42	9	15	mg/L	06.05.13 13:26	J
Nitrate as N	1.22	1.60	27	15	mg/L	06.05.13 13:26	F
Sulfate	67.7	68.5	1	15	mg/L	06.05.13 13:26	

Environmental International Corporation

GPA Bainbridge

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 915374 Matrix: Water Date Prep: 06.04.13
Parent Sample Id: 464368-001 MS Sample Id: 464368-001 S MSD Sample Id: 464368-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3.79	10.0	12.4	86	12.6	88	80-120	2	15	mg/L	06.04.13 16:01	
Nitrate as N	0.132	1.00	1.13	100	1.15	102	80-120	2	15	mg/L	06.04.13 16:01	
Sulfate	22.6	10.0	36.8	142	36.6	140	80-120	1	15	mg/L	06.04.13 16:01	X

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 915504 Matrix: Water Date Prep: 06.05.13
Parent Sample Id: 464459-001 MS Sample Id: 464459-001 S MSD Sample Id: 464459-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3.76	10.0	14.2	104	14.1	103	80-120	1	15	mg/L	06.05.13 13:44	
Nitrate as N	1.22	1.00	2.38	116	2.41	119	80-120	1	15	mg/L	06.05.13 13:44	
Sulfate	67.7	10.0	74.4	67	73.1	54	80-120	2	15	mg/L	06.05.13 13:44	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 #: 262790 Page 1 of 1

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

Lab Only: WO # 464368

Proj Name-Location: ☒ Previously done at XENCO — GPA Bainbridge **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: Alan Sanders Signature: Alan Sanders

	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, and Sulfate)	TATASAP 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	MW-2	6/3/2013	15:14		W		✓	1	125 mL	P	NA										✓					
2	MW-7	6/3/2013	16:36		W		✓	1	125 mL	P	NA										✓					
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										

	Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1	1) Alan Sanders AS	6/3/2013 17:02	2) [signature]	6/4/13 13:05
2	3)		4)	
3	5)		6)	

Total Containers per COC: 7 Cooler Temp: 2°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**)

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.

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Florida Testing Services, LLC

Client: Environmental International Corporation

Date/ Time Received: 06/04/2013 01:05:00 PM

Work Order #: 464368

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: 06/04/2013

Checklist reviewed by: Dijana Piljak Date: 06/05/2013

Analytical Report 464459

for

Environmental International Corporation

Project Manager: Alan Sanders

GPA Bainbridge, GA

400007

11-JUN-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 (T104704215-10-6-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)

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Summary of Quality control	10
Sample Receipt Conformance Report	11

XENCO Laboratories
Florida Testing Services, LLC

11-JUN-13

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

Reference: XENCO Report No(s): **464459**
GPA Bainbridge, GA
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) 464459. 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. 464459 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,

Dijana Piljak

Dijana Piljak
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 464459

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-11	W	06-04-13 10:22		464459-001
MW-1A	W	06-04-13 12:06		464459-002
MW-1	W	06-04-13 14:18		464459-003
MW-4U	W	06-04-13 15:35		464459-004

Certificate of Analytical Results 464459

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-11** Matrix: Water Date Received:06.05.13 11.20

Lab Sample Id: 464459-001 Date Collected: 06.04.13 10.22

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 06.05.13 10.31

Seq Number: 915504

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3.76**	5.00	0.104	mg/L	06.05.13 13.09	J	1
Nitrate as N	14797-55-8	**1.22**	1.00	0.0240	mg/L	06.05.13 13.09		1
Sulfate	14808-79-8	**77.5**	10.0	0.336	mg/L	06.05.13 16.08	D	2

Certificate of Analytical Results 464459

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id:	**MW-1A**	Matrix:	Water	Date Received:	06.05.13 11.20
Lab Sample Id:	464459-002	Date Collected:	06.04.13 12.06		

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

Tech: BLF
% Moisture:

Analyst: BLF
Date Prep: 06.05.13 10.31

Seq Number: 915504

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.8**	5.00	0.104	mg/L	06.05.13 14.19		1
Nitrate as N	14797-55-8	**6.34**	1.00	0.0240	mg/L	06.05.13 14.19		1
Sulfate	14808-79-8	**465**	50.0	1.68	mg/L	06.05.13 16.26	D	10

Certificate of Analytical Results 464459

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-1** Matrix: Water Date Received:06.05.13 11.20

Lab Sample Id: 464459-003 Date Collected: 06.04.13 14.18

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 06.05.13 10.31

Seq Number: 915504

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7.19**	5.00	0.104	mg/L	06.05.13 14.36		1
Nitrate as N	14797-55-8	**3.09**	1.00	0.0240	mg/L	06.05.13 14.36		1
Sulfate	14808-79-8	**411**	50.0	1.68	mg/L	06.05.13 17.01	D	10

Certificate of Analytical Results 464459

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-4U** Matrix: Water Date Received:06.05.13 11.20

Lab Sample Id: 464459-004 Date Collected: 06.04.13 15.35

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 06.05.13 10.31

Seq Number: 915504

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5.90**	5.00	0.104	mg/L	06.05.13 14.54		1
Nitrate as N	14797-55-8	**3.23**	1.00	0.0240	mg/L	06.05.13 14.54		1
Sulfate	14808-79-8	**79.7**	10.0	0.336	mg/L	06.05.13 17.36	D	2

XENCO Laboratories
Florida Testing Services, LLC

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 quantiation 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

QC Summary 464459

Environmental International Corporation

GPA Bainbridge, GA

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 915504 Matrix: Water Date Prep: 06.05.13
MB Sample Id: 639244-1-BLK LCS Sample Id: 639244-1-BKS LCSD Sample Id: 639244-1-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	10.9	109	10.9	109	80-120	0	15	mg/L	06.05.13 11:24	
Nitrate as N	<0.0240	1.00	1.01	101	1.01	101	80-120	0	15	mg/L	06.05.13 11:24	
Sulfate	<0.168	10.0	9.93	99	9.89	99	80-120	0	15	mg/L	06.05.13 11:24	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 915504 Matrix: Water Date Prep: 06.05.13
Parent Sample Id: 464459-001 MD Sample Id: 464459-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3.76	3.42	9	15	mg/L	06.05.13 13:26	J
Nitrate as N	1.22	1.60	27	15	mg/L	06.05.13 13:26	F
Sulfate	67.7	68.5	1	15	mg/L	06.05.13 13:26	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 915504 Matrix: Water Date Prep: 06.05.13
Parent Sample Id: 464459-001 MS Sample Id: 464459-001 S MSD Sample Id: 464459-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3.76	10.0	14.2	104	14.1	103	80-120	1	15	mg/L	06.05.13 13:44	
Nitrate as N	1.22	1.00	2.38	116	2.41	119	80-120	1	15	mg/L	06.05.13 13:44	
Sulfate	67.7	10.0	74.4	67	73.1	54	80-120	2	15	mg/L	06.05.13 13:44	X

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Florida Testing Services, LLC

Client: Environmental International Corporation

Date/ Time Received: 06/05/2013 11:20:00 AM

Work Order #: 464459

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)?	2.5
#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: 06/05/2013

Checklist reviewed by: Dijana Piljak Date: 06/05/2013

Analytical Report 464523

for

Environmental International Corporation

Project Manager: Alan Sanders

GPA Bainbridge, GA

400007

13-JUN-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 (T104704215-10-6-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)

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13-JUN-13

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

Reference: XENCO Report No(s): **464523**
GPA Bainbridge, GA
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) 464523. 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. 464523 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,

Dijana Piljak

Dijana Piljak
Project Manager

Sample Cross Reference 464523

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-5D	W	06-04-13 17:31		464523-001
MW-5A	W	06-04-13 18:28		464523-002
MW-12	W	06-05-13 08:15		464523-003
MW-8	W	06-05-13 09:42		464523-004
MW-17	W	06-05-13 10:43		464523-005
MW-16	W	06-05-13 12:01		464523-006
MW-14	W	06-05-13 15:53		464523-007

Certificate of Analytical Results 464523

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-5D** Matrix: Water Date Received:06.06.13 10.03

Lab Sample Id: 464523-001 Date Collected: 06.04.13 17.31

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 06.06.13 10.06

Seq Number: 915633

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**585**	125	2.60	mg/L	06.06.13 16.14	D	25
Nitrate as N	14797-55-8	**30.2**	5.00	0.120	mg/L	06.06.13 15.39	D	5
Sulfate	14808-79-8	**226**	25.0	0.840	mg/L	06.06.13 15.39	D	5

Certificate of Analytical Results 464523

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-5A** Matrix: Water Date Received:06.06.13 10.03

Lab Sample Id: 464523-002 Date Collected: 06.04.13 18.28

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 06.06.13 10.06

Seq Number: 915633

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**34.3**	5.00	0.104	mg/L	06.06.13 12.26		1
Nitrate as N	14797-55-8	**21.8**	5.00	0.120	mg/L	06.06.13 15.56	D	5
Sulfate	14808-79-8	**78.3**	25.0	0.840	mg/L	06.06.13 15.56	D	5

Certificate of Analytical Results 464523

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-12** Matrix: Water Date Received:06.06.13 10.03

Lab Sample Id: 464523-003 Date Collected: 06.05.13 08.15

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 06.06.13 10.06

Seq Number: 915633

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**46.0**	5.00	0.104	mg/L	06.06.13 12.44		1
Nitrate as N	14797-55-8	**15.7**	2.00	0.0480	mg/L	06.06.13 17.24	D	2
Sulfate	14808-79-8	**135**	25.0	0.840	mg/L	06.06.13 17.06	D	5

Certificate of Analytical Results 464523

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-8** Matrix: Water Date Received:06.06.13 10.03

Lab Sample Id: 464523-004 Date Collected: 06.05.13 09.42

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 06.06.13 10.06

Seq Number: 915633

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**34.7**	5.00	0.104	mg/L	06.06.13 13.01		1
Nitrate as N	14797-55-8	**14.6**	2.00	0.0480	mg/L	06.06.13 17.59	D	2
Sulfate	14808-79-8	**294**	50.0	1.68	mg/L	06.06.13 17.41	D	10

Certificate of Analytical Results 464523

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-17** Matrix: Water Date Received:06.06.13 10.03

Lab Sample Id: 464523-005 Date Collected: 06.05.13 10.43

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 06.06.13 10.06

Seq Number: 915633

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**14.6**	5.00	0.104	mg/L	06.06.13 13.19		1
Nitrate as N	14797-55-8	**4.27**	1.00	0.0240	mg/L	06.06.13 13.19		1
Sulfate	14808-79-8	**50.0**	5.00	0.168	mg/L	06.06.13 13.19		1

Certificate of Analytical Results 464523

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-16** Matrix: Water Date Received:06.06.13 10.03

Lab Sample Id: 464523-006 Date Collected: 06.05.13 12.01

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 06.06.13 10.06

Seq Number: 915633

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1.32**	5.00	0.104	mg/L	06.06.13 14.29	J	1
Nitrate as N	14797-55-8	**1.18**	1.00	0.0240	mg/L	06.06.13 14.29		1
Sulfate	14808-79-8	**4.00**	5.00	0.168	mg/L	06.06.13 14.29	J	1

Certificate of Analytical Results 464523

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-14** Matrix: Water Date Received:06.06.13 10.03

Lab Sample Id: 464523-007 Date Collected: 06.05.13 15.53

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 06.06.13 10.06

Seq Number: 915633

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3.51**	5.00	0.104	mg/L	06.06.13 15.21	J	1
Nitrate as N	14797-55-8	**0.0574**	1.00	0.0240	mg/L	06.06.13 15.21	J	1
Sulfate	14808-79-8	**1.76**	5.00	0.168	mg/L	06.06.13 15.21	J	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 quantiation 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, GA

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 915633 Matrix: Water Date Prep: 06.06.13
MB Sample Id: 639313-1-BLK LCS Sample Id: 639313-1-BKS LCSD Sample Id: 639313-1-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	10.0	100	10.1	101	80-120	1	15	mg/L	06.06.13 10:59	
Nitrate as N	<0.0240	1.00	0.983	98	0.992	99	80-120	1	15	mg/L	06.06.13 10:59	
Sulfate	<0.168	10.0	9.32	93	9.59	96	80-120	3	15	mg/L	06.06.13 10:59	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 915633 Matrix: Water Date Prep: 06.06.13
Parent Sample Id: 464523-006 MD Sample Id: 464523-006 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1.32	1.33	1	15	mg/L	06.06.13 18:16	J
Nitrate as N	1.18	1.19	1	15	mg/L	06.06.13 18:16	
Sulfate	4.00	3.69	8	15	mg/L	06.06.13 18:16	J

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 915633 Matrix: Water Date Prep: 06.06.13
Parent Sample Id: 464523-006 MS Sample Id: 464523-006 S MSD Sample Id: 464523-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1.32	10.0	11.4	101	11.5	102	80-120	1	15	mg/L	06.06.13 14:46	
Nitrate as N	1.18	1.00	2.14	96	2.10	92	80-120	2	15	mg/L	06.06.13 14:46	
Sulfate	4.00	10.0	14.2	102	14.3	103	80-120	1	15	mg/L	06.06.13 14:46	

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 #: 262791 Page 1 of 1

Company-City EIC	**Phone** 770-772-7100
Proj Name-Location ☒ Previously done at XENCO GPA Bainbridge	**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 a.sanders@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 Alan Sanders	Signature Alan Sanders

Lab Only: LWO# 404523

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	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:
1	MW-5D	6/4/2013	17:31		W		✓	1	125 mL	P	NA										✓					1
2	MW-5A	6/4/2013	18:28		W		✓	1	125 mL	P	NA										✓					2
3	MW-12	6/5/2013	8:15		W		✓	1	125 mL	P	NA										✓					3
4	MW-8	6/5/2013	~~9:42~~		W		✓	1	125 mL	P	NA										✓					4
5	MW-17	6/5/2013	10:43		W		✓	1	125 mL	P	NA										✓					5
6	MW-16	6/5/2013	12:01		W		✓	1	125 mL	P	NA										✓					6
7	MW-14	6/5/2013	15:53		W		✓	1	125 mL	P	NA										✓					7
8																										8
9																										9
10																										10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time	Total Containers per COC: 7 Cooler Temp: 3.5 °C
1) A.S. Alan Sanders	6/5/2013 16:55	2) Dana Cagnas	6/6/13 10:03	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.
3)		4)		
5)		6)		

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**)

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.

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Florida Testing Services, LLC

Client: Environmental International Corporation

Date/ Time Received: 06/06/2013 10:03:47 AM

Work Order #: 464523

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)?	3.5
#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: DL	PH Device/Lot#:

Checklist completed by: Dario Lagunas Date: 06/06/2013

Checklist reviewed by: Dijana Piljak Date: 06/06/2013

Analytical Report 464706

for

Environmental International Corporation

Project Manager: Alan Sanders

GPA Bainbridge, GA

400007

28-OCT-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)

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XENCO Laboratories
Florida Testing Services, LLC

28-OCT-13

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

Reference: XENCO Report No(s): **464706**
GPA Bainbridge, GA
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) 464706. 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. 464706 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 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	06-04-13 14:18		464706-001
MW-1A	W	06-04-13 12:06		464706-002
MW-2	W	06-03-13 15:14		464706-003
MW-4U	W	06-04-13 15:35		464706-004
MW-5A	W	06-04-13 18:28		464706-005
MW-5D	W	06-04-13 17:31		464706-006
MW-6	W	06-05-13 17:04		464706-007
MW-7	W	06-03-13 16:36		464706-008
MW-8	W	06-05-13 09:42		464706-009
MW-10	W	06-05-13 18:05		464706-010
MW-10 DUPLICATE	W	06-05-13 18:13		464706-011
MW-11	W	06-04-13 10:22		464706-012
MW-12	W	06-05-13 08:15		464706-013
MW-14	W	06-05-13 15:53		464706-014
MW-16	W	06-05-13 12:01		464706-015
MW-17	W	06-05-13 10:43		464706-016
MW-18	W	06-06-13 16:17		464706-017
MW-19	W	06-06-13 15:22		464706-018
MW-20	W	06-06-13 10:25		464706-020
MW-21	W	06-06-13 08:53		464706-021
MW-22	W	06-06-13 12:06		464706-022
EQUIPMENT BLANK	W	06-05-13 18:37		464706-024
MW-19-MATRIX SPIKE	W	06-06-13 15:30		Not Analyzed
MW-22-MATRIX SPIKE	W	06-06-13 12:13		Not Analyzed

Sample receipt non conformances and comments:

This revised report replaces the original report issued on June 18, 2013.
At the client's request, sample MW-1A for Organochlorine Pesticides by SW-846 8081B was re-analyzed outside of sample holding time due to suspected false positive results for pesticides. Upon re-analysis the laboratory determined that the sample extract for MW-6 was inadvertantly used for both MW-1A and MW-6.

Note: Xenco sample numbers 19 (464706-019) and 23 (464706-023) have been assigned numbers 18 (464706-018) and 22 (464706-022), listed respectively, due to them being extra volume of samples 464706-018 (MW-19) and 464706-022 (MW-22) for the ms/msd.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-916200 Organochlorine Pesticides by SW-846 8081B
SW8081A_ATL

Batch 916200, Decachlorobiphenyl recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 464706-018 S.

SW8081A_ATL

Batch 916200, Gamma-Chlordane, Heptachlor Epoxide recovered above QC limits in the Matrix Spike.
Samples affected are: 464706-004, -007, -012, -002, -011, -015, -006, -018, -001, -010, -013, -017, -005, -014, -016, -020, -003, -008, -009.
The Laboratory Control Sample for Gamma-Chlordane, Heptachlor Epoxide is within laboratory Control Limits

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-1**
Lab Sample Id : 464706-001

Matrix : Water
Date Collected : 06.04.13 14.18
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 916169

Prep Method: SW3010A
Date Prep: 06.10.13 08.46

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.512	mg/L	06.12.13 21.33		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 916087

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	1.85	mg/L	06.12.13 20.58		1

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-1A**
Lab Sample Id : 464706-002

Matrix : Water
Date Collected : 06.04.13 12.06
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 916169

Prep Method: SW3010A
Date Prep: 06.10.13 08.46

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.846	mg/L	06.12.13 21.34		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 916200

Prep Method: SW3510C
Date Prep: 06.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	1.33	ug/L	06.12.13 21.51	E	1
Beta-BHC	319-85-7	1.44	ug/L	06.12.13 21.51	E	1
Delta-BHC	319-86-8	2.30	ug/L	06.12.13 21.51	E	1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 915948

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	1.67	mg/L	06.11.13 18.22		1

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-1A DL**
Lab Sample Id : 464706-002 DL

Matrix : Water
Date Collected : 06.04.13 12.06
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 916369

Prep Method: SW3510C
Date Prep: 06.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
4,4-DDT	50-29-3	0.683	ug/L	06.14.13 15.06	J	10
Alpha-BHC	319-84-6	1.25	ug/L	06.14.13 15.06		10
Beta-BHC	319-85-7	1.31	ug/L	06.14.13 15.06		10
Delta-BHC	319-86-8	1.71	ug/L	06.14.13 15.06		10
Endosulfan Sulfate	1031-07-8	0.703	ug/L	06.14.13 15.06	J	10

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-2**
Lab Sample Id : 464706-003

Matrix : Water
Date Collected : 06.03.13 15.14
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 916169

Prep Method: SW3010A
Date Prep: 06.10.13 08.46

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.0865	mg/L	06.12.13 21.41		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 915948

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	1.29	mg/L	06.11.13 19.04		1

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-4U**
Lab Sample Id : 464706-004

Matrix : Water
Date Collected : 06.04.13 15.35
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 916169

Prep Method: SW3010A
Date Prep: 06.10.13 08.46

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.248	mg/L	06.12.13 21.42		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 915948

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	1.38	mg/L	06.11.13 19.23		1

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-5A**
Lab Sample Id : 464706-005

Matrix : Water
Date Collected : 06.04.13 18.28
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 916169

Prep Method: SW3010A
Date Prep: 06.10.13 08.46

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	1.81	mg/L	06.12.13 21.44		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 916200

Prep Method: SW3510C
Date Prep: 06.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Aldrin	309-00-2	0.0782	ug/L	06.12.13 22.43		1
Alpha-BHC	319-84-6	0.154	ug/L	06.12.13 22.43		1
Beta-BHC	319-85-7	5.35	ug/L	06.12.13 22.43	E	1
Delta-BHC	319-86-8	0.348	ug/L	06.12.13 22.43		1
Dieldrin	60-57-1	5.60	ug/L	06.12.13 22.43	E	1
Endrin Ketone	53494-70-5	0.122	ug/L	06.12.13 22.43		1
Gamma-BHC (Lindane)	58-89-9	0.113	ug/L	06.12.13 22.43		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 915948

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	1.16	mg/L	06.11.13 19.42		1

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-5A DL**
Lab Sample Id : 464706-005 DL

Matrix : Water
Date Collected : 06.04.13 18.28
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 916369

Prep Method: SW3510C
Date Prep: 06.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
4,4-DDT	50-29-3	0.683	ug/L	06.14.13 15.24	J	10
Beta-BHC	319-85-7	4.20	ug/L	06.14.13 15.24		10
Dieldrin	60-57-1	5.41	ug/L	06.14.13 15.24		10
Endosulfan Sulfate	1031-07-8	0.703	ug/L	06.14.13 15.24	J	10

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-5D**
Lab Sample Id : 464706-006

Matrix : Water
Date Collected : 06.04.13 17.31
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 916169

Prep Method: SW3010A
Date Prep: 06.10.13 08.46

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	1.17	mg/L	06.12.13 21.46		1

Analytical Method : Methane, Ethane, Ethene by Mod. RSK 175
Seq Number 915888

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Methane	74-82-8	0.0347	mg/L	06.10.13 16.56		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 916200

Prep Method: SW3510C
Date Prep: 06.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.215	ug/L	06.12.13 23.01		1
Beta-BHC	319-85-7	2.62	ug/L	06.12.13 23.01	E	1
Delta-BHC	319-86-8	0.567	ug/L	06.12.13 23.01		1
Gamma-BHC (Lindane)	58-89-9	0.225	ug/L	06.12.13 23.01		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 915948

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	5.68	mg/L	06.11.13 20.03		1

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-5 DL**
Lab Sample Id : 464706-006 DL

Matrix : Water
Date Collected : 06.04.13 17.31
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 916369

Prep Method: SW3510C
Date Prep: 06.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
4,4-DDT	50-29-3	0.683	ug/L	06.14.13 15.42	J	10
Beta-BHC	319-85-7	2.49	ug/L	06.14.13 15.42		10
Endosulfan Sulfate	1031-07-8	0.703	ug/L	06.14.13 15.42	J	10

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-6**
Lab Sample Id : 464706-007

Matrix : Water
Date Collected : 06.05.13 17.04
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 915732

Prep Method: SW9056P
Date Prep: 06.10.13 09.40

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	219	mg/L	06.10.13 13.10	D	5
Sulfate	14808-79-8	687	mg/L	06.10.13 12.52	D	25

Analytical Method : Manganese by SW-846 6010C
Seq Number 916169

Prep Method: SW3010A
Date Prep: 06.10.13 08.46

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	5.25	mg/L	06.12.13 21.47		1

Analytical Method : Methane, Ethane, Ethene by Mod. RSK 175
Seq Number 915888

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Methane	74-82-8	0.0358	mg/L	06.10.13 17.02		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 916200

Prep Method: SW3510C
Date Prep: 06.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	1.32	ug/L	06.12.13 23.19	E	1
Beta-BHC	319-85-7	1.45	ug/L	06.12.13 23.19	E	1
Delta-BHC	319-86-8	2.26	ug/L	06.12.13 23.19	E	1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 915948

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	1.32	mg/L	06.11.13 20.33		1

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-6 DL**
Lab Sample Id : 464706-007 DL

Matrix : Water
Date Collected : 06.05.13 17.04
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 916369

Prep Method: SW3510C
Date Prep: 06.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
4,4-DDT	50-29-3	0.683	ug/L	06.14.13 15.59	J	10
Alpha-BHC	319-84-6	1.23	ug/L	06.14.13 15.59		10
Beta-BHC	319-85-7	1.36	ug/L	06.14.13 15.59		10
Delta-BHC	319-86-8	1.69	ug/L	06.14.13 15.59		10
Endosulfan Sulfate	1031-07-8	0.703	ug/L	06.14.13 15.59	J	10

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 923219

Prep Method: SW3510C
Date Prep: 06.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	1.31	ug/L	09.16.13 14.27	K	10
Beta-BHC	319-85-7	1.08	ug/L	09.16.13 14.27	K	10
Delta-BHC	319-86-8	1.65	ug/L	09.16.13 14.27	K	10

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-6 RE**
Lab Sample Id : 464706-007 RE

Matrix : Water
Date Collected : 06.05.13 17.04
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 923219

Prep Method: SW3510C
Date Prep: 06.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	1.50	ug/L	09.16.13 15.03	KE	1
Beta-BHC	319-85-7	1.34	ug/L	09.16.13 15.03	KE	1
Delta-BHC	319-86-8	3.08	ug/L	09.16.13 15.03	KE	1

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-7**
Lab Sample Id : 464706-008

Matrix : Water
Date Collected : 06.03.13 16.36
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 916169

Prep Method: SW3010A
Date Prep: 06.10.13 08.46

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	6.68	mg/L	06.12.13 21.49		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 916200

Prep Method: SW3510C
Date Prep: 06.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Beta-BHC	319-85-7	0.489	ug/L	06.13.13 00.47		1
Gamma-BHC (Lindane)	58-89-9	0.0524	ug/L	06.13.13 00.47		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 915948

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	2.29	mg/L	06.11.13 21.36		1

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-8**
Lab Sample Id : 464706-009

Matrix : Water
Date Collected : 06.05.13 09.42
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 916169

Prep Method: SW3010A
Date Prep: 06.10.13 08.46

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.969	mg/L	06.12.13 21.51		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 916200

Prep Method: SW3510C
Date Prep: 06.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.266	ug/L	06.13.13 01.04		1
Beta-BHC	319-85-7	1.39	ug/L	06.13.13 01.04	E	1
Delta-BHC	319-86-8	0.215	ug/L	06.13.13 01.04		1
Gamma-BHC (Lindane)	58-89-9	0.147	ug/L	06.13.13 01.04		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 915948

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	0.844	mg/L	06.11.13 21.56	J	1

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-8 DL**
Lab Sample Id : 464706-009 DL

Matrix : Water
Date Collected : 06.05.13 09.42
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 916369

Prep Method: SW3510C
Date Prep: 06.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
4,4-DDT	50-29-3	0.683	ug/L	06.14.13 16.17	J	10
Beta-BHC	319-85-7	1.15	ug/L	06.14.13 16.17		10
Endosulfan Sulfate	1031-07-8	0.703	ug/L	06.14.13 16.17	J	10

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-10**
Lab Sample Id : 464706-010

Matrix : Water
Date Collected : 06.05.13 18.05
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 915732

Prep Method: SW9056P
Date Prep: 06.07.13 13.10

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	42.6	mg/L	06.07.13 14.55		1
Nitrate as N	14797-55-8	4.97	mg/L	06.07.13 14.55		1

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 915732

Prep Method: SW9056P
Date Prep: 06.10.13 09.40

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Sulfate	14808-79-8	468	mg/L	06.10.13 13.27	D	25

Analytical Method : Manganese by SW-846 6010C
Seq Number 916169

Prep Method: SW3010A
Date Prep: 06.10.13 08.46

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	1.07	mg/L	06.12.13 21.52		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 916200

Prep Method: SW3510C
Date Prep: 06.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.427	ug/L	06.13.13 01.22		1
Beta-BHC	319-85-7	7.13	ug/L	06.13.13 01.22	E	1
Delta-BHC	319-86-8	0.372	ug/L	06.13.13 01.22		1
Gamma-BHC (Lindane)	58-89-9	0.181	ug/L	06.13.13 01.22		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 915948

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	2.39	mg/L	06.11.13 22.15		1

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-10 DL**
Lab Sample Id : 464706-010 DL

Matrix : Water
Date Collected : 06.05.13 18.05
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 916369

Prep Method: SW3510C
Date Prep: 06.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
4,4-DDT	50-29-3	0.683	ug/L	06.14.13 16.34	J	10
Alpha-BHC	319-84-6	0.434	ug/L	06.14.13 16.34	J	10
Beta-BHC	319-85-7	5.79	ug/L	06.14.13 16.34		10
Endosulfan Sulfate	1031-07-8	0.703	ug/L	06.14.13 16.34	J	10

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-10 DUPLICATE** Matrix : Water % Moisture :
Lab Sample Id : 464706-011 Date Collected : 06.05.13 18.13
Date Received : 06.07.13 12.19

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Seq Number 915732 Date Prep: 06.07.13 13.10

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	42.4	mg/L	06.07.13 15.12		1
Nitrate as N	14797-55-8	4.90	mg/L	06.07.13 15.12		1

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Seq Number 915732 Date Prep: 06.10.13 09.40

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Sulfate	14808-79-8	598	mg/L	06.10.13 14.02	D	25

Analytical Method : Manganese by SW-846 6010C Prep Method: SW3010A
Seq Number 916169 Date Prep: 06.10.13 08.46

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	1.04	mg/L	06.12.13 21.54		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C
Seq Number 916200 Date Prep: 06.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.660	ug/L	06.13.13 01.39		1
Beta-BHC	319-85-7	10.9	ug/L	06.13.13 01.39	E	1
Delta-BHC	319-86-8	0.547	ug/L	06.13.13 01.39		1
Gamma-BHC (Lindane)	58-89-9	0.279	ug/L	06.13.13 01.39		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 915948

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	2.51	mg/L	06.11.13 22.37		1

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-10 DUPLICATE DL**
Lab Sample Id : 464706-011 DL

Matrix : Water
Date Collected : 06.05.13 18.13
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 916369

Prep Method: SW3510C
Date Prep: 06.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
4,4-DDT	50-29-3	3.42	ug/L	06.14.13 16.52	J	50
Beta-BHC	319-85-7	7.77	ug/L	06.14.13 16.52		50
Endosulfan Sulfate	1031-07-8	3.52	ug/L	06.14.13 16.52	J	50

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-11**
Lab Sample Id : 464706-012

Matrix : Water
Date Collected : 06.04.13 10.22
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 916169

Prep Method: SW3010A
Date Prep: 06.10.13 08.46

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.0351	mg/L	06.12.13 21.56	J	1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 915948

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	2.36	mg/L	06.11.13 22.59		1

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-12**
Lab Sample Id : 464706-013

Matrix : Water
Date Collected : 06.05.13 08.15
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 916169

Prep Method: SW3010A
Date Prep: 06.10.13 08.46

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.00740	mg/L	06.12.13 22.02	J	1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 916200

Prep Method: SW3510C
Date Prep: 06.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.0370	ug/L	06.13.13 02.14	J	1
Beta-BHC	319-85-7	0.633	ug/L	06.13.13 02.14		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 915948

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	0.736	mg/L	06.11.13 23.18	J	1

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-14**
Lab Sample Id : 464706-014

Matrix : Water
Date Collected : 06.05.13 15.53
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 916169

Prep Method: SW3010A
Date Prep: 06.10.13 08.46

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.323	mg/L	06.12.13 22.04		1

Analytical Method : Methane, Ethane, Ethene by Mod. RSK 175
Seq Number 915894

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Methane	74-82-8	0.00940	mg/L	06.11.13 12.15		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 915948

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	1.78	mg/L	06.11.13 23.36		1

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-16**
Lab Sample Id : 464706-015

Matrix : Water
Date Collected : 06.05.13 12.01
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 916169

Prep Method: SW3010A
Date Prep: 06.10.13 08.46

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.0251	mg/L	06.12.13 22.05	J	1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 916200

Prep Method: SW3510C
Date Prep: 06.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Beta-BHC	319-85-7	0.204	ug/L	06.13.13 02.50		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 915948

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	0.679	mg/L	06.11.13 23.56	J	1

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-17**
Lab Sample Id : 464706-016

Matrix : Water
Date Collected : 06.05.13 10.43
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Manganese by SW-846 6010C
Seq Number 916179

Prep Method: SW3010A
Date Prep: 06.10.13 08.46

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.211	mg/L	06.12.13 22.17		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 916200

Prep Method: SW3510C
Date Prep: 06.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Beta-BHC	319-85-7	0.388	ug/L	06.13.13 03.07		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 915948

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	1.00	mg/L	06.11.13 00.14	J	1

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-18**
Lab Sample Id : 464706-017

Matrix : Water
Date Collected : 06.06.13 16.17
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 915732

Prep Method: SW9056P
Date Prep: 06.07.13 13.10

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	72.2	mg/L	06.07.13 19.52	D	10
Nitrate as N	14797-55-8	138	mg/L	06.07.13 19.35	D	25
Sulfate	14808-79-8	155	mg/L	06.07.13 19.52	D	10

Analytical Method : Manganese by SW-846 6010C
Seq Number 916179

Prep Method: SW3010A
Date Prep: 06.10.13 08.46

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	1.88	mg/L	06.12.13 22.32		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 916200

Prep Method: SW3510C
Date Prep: 06.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Beta-BHC	319-85-7	0.472	ug/L	06.13.13 03.25		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 915948

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	2.65	mg/L	06.11.13 00.34		1

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-19**
Lab Sample Id : 464706-018

Matrix : Water
Date Collected : 06.06.13 15.22
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 915732

Prep Method: SW9056P
Date Prep: 06.07.13 13.10

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	32.5	mg/L	06.07.13 17.15		1
Nitrate as N	14797-55-8	96.1	mg/L	06.07.13 19.00	D	10
Sulfate	14808-79-8	227	mg/L	06.07.13 19.17	D	5

Analytical Method : Manganese by SW-846 6010C
Seq Number 916179

Prep Method: SW3010A
Date Prep: 06.10.13 08.46

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.934	mg/L	06.12.13 22.33		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 915948

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	2.44	mg/L	06.11.13 01.37		1

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-20**
Lab Sample Id : 464706-020

Matrix : Water
Date Collected : 06.06.13 10.25
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 915732

Prep Method: SW9056P
Date Prep: 06.07.13 13.10

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.2	mg/L	06.07.13 16.05		1
Nitrate as N	14797-55-8	3.63	mg/L	06.07.13 16.05		1

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 915732

Prep Method: SW9056P
Date Prep: 06.10.13 09.40

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Sulfate	14808-79-8	115	mg/L	06.10.13 14.37	D	5

Analytical Method : Manganese by SW-846 6010C
Seq Number 916179

Prep Method: SW3010A
Date Prep: 06.10.13 08.46

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.697	mg/L	06.12.13 22.37		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 916200

Prep Method: SW3510C
Date Prep: 06.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.0330	ug/L	06.13.13 04.00	J	1
Beta-BHC	319-85-7	4.54	ug/L	06.13.13 04.00	E	1
Delta-BHC	319-86-8	0.158	ug/L	06.13.13 04.00		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 915948

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	1.54	mg/L	06.11.13 01.56		1

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-20 DL**
Lab Sample Id : 464706-020 DL

Matrix : Water
Date Collected : 06.06.13 10.25
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 916369

Prep Method: SW3510C
Date Prep: 06.10.13 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
4,4-DDT	50-29-3	0.683	ug/L	06.14.13 17.10	J	10
Beta-BHC	319-85-7	4.15	ug/L	06.14.13 17.10		10
Endosulfan Sulfate	1031-07-8	0.703	ug/L	06.14.13 17.10	J	10

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-21**
Lab Sample Id : 464706-021

Matrix : Water
Date Collected : 06.06.13 08.53
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 915732

Prep Method: SW9056P
Date Prep: 06.07.13 13.10

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.29	mg/L	06.07.13 15.47		1
Nitrate as N	14797-55-8	1.47	mg/L	06.07.13 15.47		1

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 915732

Prep Method: SW9056P
Date Prep: 06.10.13 09.40

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Sulfate	14808-79-8	54.7	mg/L	06.10.13 15.12	D	2

Analytical Method : Manganese by SW-846 6010C
Seq Number 916179

Prep Method: SW3010A
Date Prep: 06.10.13 08.46

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.500	mg/L	06.12.13 22.38		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 916203

Prep Method: SW3510C
Date Prep: 06.10.13 14.30

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Beta-BHC	319-85-7	0.414	ug/L	06.14.13 11.45		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 915948

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	1.66	mg/L	06.11.13 02.16		1

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **MW-22**
Lab Sample Id : 464706-022

Matrix : Water
Date Collected : 06.06.13 12.06
Date Received : 06.07.13 12.19

% Moisture :

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 915732

Prep Method: SW9056P
Date Prep: 06.07.13 13.10

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.42	mg/L	06.07.13 16.22		1
Nitrate as N	14797-55-8	3.02	mg/L	06.07.13 16.22		1

Analytical Method : Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
Seq Number 915732

Prep Method: SW9056P
Date Prep: 06.10.13 09.40

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Sulfate	14808-79-8	331	mg/L	06.10.13 15.30	D	10

Analytical Method : Manganese by SW-846 6010C
Seq Number 916179

Prep Method: SW3010A
Date Prep: 06.10.13 08.46

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	0.583	mg/L	06.12.13 22.40		1

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 916203

Prep Method: SW3510C
Date Prep: 06.10.13 14.30

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.833	ug/L	06.13.13 05.46		1
Beta-BHC	319-85-7	31.7	ug/L	06.14.13 17.45	D	100
Delta-BHC	319-86-8	1.79	ug/L	06.14.13 17.27	D	10
Gamma-BHC (Lindane)	58-89-9	0.446	ug/L	06.13.13 05.46		1

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 916087

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	2.21	mg/L	06.12.13 21.46		1

Hits Summary 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id : **EQUIPMENT BLANK** Matrix : Water % Moisture :
Lab Sample Id : 464706-024 Date Collected : 06.05.13 18.37
Date Received : 06.07.13 12.19

Analytical Method : Total Organic Carbon by SW-846 9060
Seq Number 916087

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	0.653	mg/L	06.12.13 22.05	J	1

Certificate of Analytical Results 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-1** Matrix: Water Date Received:06.07.13 12.19
Lab Sample Id: 464706-001 Date Collected: 06.04.13 14.18

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 916087 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.85**	1.00	0.548	mg/L	06.12.13 20.58		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 06.10.13 08.46
Seq Number: 916169

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.512**	0.0500	0.000900	mg/L	06.12.13 21.33		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 915888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	06.10.13 15.45	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	06.10.13 15.45	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	06.10.13 15.45	U	1

Certificate of Analytical Results 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-1** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-001 Date Collected: 06.04.13 14.18

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916200

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8		U	0.100	0.00210	ug/L	06.12.13 21.33	U	1
4,4-DDE	72-55-9		U	0.100	0.00320	ug/L	06.12.13 21.33	U	1
4,4-DDT	50-29-3		U	0.100	0.00210	ug/L	06.12.13 21.33	U	1
Aldrin	309-00-2		U	0.0500	0.00200	ug/L	06.12.13 21.33	U	1
Alpha-BHC	319-84-6		U	0.0500	0.00170	ug/L	06.12.13 21.33	U	1
Alpha-Chlordane	5103-71-9		U	0.0500	0.00110	ug/L	06.12.13 21.33	U	1
Beta-BHC	319-85-7		U	0.0500	0.00150	ug/L	06.12.13 21.33	U	1
Chlordane	12789-03-6		U	0.500	0.0322	ug/L	06.12.13 21.33	U	1
Delta-BHC	319-86-8		U	0.0500	0.000900	ug/L	06.12.13 21.33	U	1
Dieldrin	60-57-1		U	0.100	0.00100	ug/L	06.12.13 21.33	U	1
Endosulfan I	959-98-8		U	0.0500	0.00200	ug/L	06.12.13 21.33	U	1
Endosulfan II	33213-65-9		U	0.100	0.00190	ug/L	06.12.13 21.33	U	1
Endosulfan Sulfate	1031-07-8		U	0.100	0.00220	ug/L	06.12.13 21.33	U	1
Endrin	72-20-8		U	0.100	0.00140	ug/L	06.12.13 21.33	U	1
Endrin Aldehyde	7421-93-4		U	0.100	0.00220	ug/L	06.12.13 21.33	U	1
Endrin Ketone	53494-70-5		U	0.100	0.00130	ug/L	06.12.13 21.33	U	1
Gamma-BHC (Lindane)	58-89-9		U	0.0500	0.000700	ug/L	06.12.13 21.33	U	1
Gamma-Chlordane	5103-74-2		U	0.0500	0.00150	ug/L	06.12.13 21.33	U	1
Heptachlor	76-44-8		U	0.0500	0.00190	ug/L	06.12.13 21.33	U	1
Heptachlor Epoxide	1024-57-3		U	0.0500	0.000700	ug/L	06.12.13 21.33	U	1
Methoxychlor	72-43-5		U	0.500	0.0100	ug/L	06.12.13 21.33	U	1
Toxaphene	8001-35-2		U	2.50	0.215	ug/L	06.12.13 21.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	43	%	27-135	06.12.13 21.33	
Decachlorobiphenyl	2051-24-3	109	%	26-154	06.12.13 21.33	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-1A** Matrix: Water Date Received:06.07.13 12.19
Lab Sample Id: 464706-002 Date Collected: 06.04.13 12.06

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 915948 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.67**	1.00	0.548	mg/L	06.11.13 18.22		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 06.10.13 08.46
Seq Number: 916169

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.846**	0.0500	0.000900	mg/L	06.12.13 21.34		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 915888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	06.10.13 16.27	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	06.10.13 16.27	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	06.10.13 16.27	U	1

Certificate of Analytical Results 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-1A** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-002 Date Collected: 06.04.13 12.06

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916200

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	06.12.13 21.51	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	06.12.13 21.51	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	06.12.13 21.51	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	06.12.13 21.51	U	1
Alpha-BHC	319-84-6	**1.33**	0.0500	0.00170	ug/L	06.12.13 21.51	E	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	06.12.13 21.51	U	1
Beta-BHC	319-85-7	**1.44**	0.0500	0.00150	ug/L	06.12.13 21.51	E	1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	06.12.13 21.51	U	1
Delta-BHC	319-86-8	**2.30**	0.0500	0.000900	ug/L	06.12.13 21.51	E	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	06.12.13 21.51	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	06.12.13 21.51	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	06.12.13 21.51	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	06.12.13 21.51	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	06.12.13 21.51	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	06.12.13 21.51	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	06.12.13 21.51	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	06.12.13 21.51	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	06.12.13 21.51	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	06.12.13 21.51	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	06.12.13 21.51	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	06.12.13 21.51	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	06.12.13 21.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	74	%	27-135	06.12.13 21.51	
Decachlorobiphenyl	2051-24-3	98	%	26-154	06.12.13 21.51	

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Sample Id: **MW-1A DL** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-002 DL Date Collected: 06.04.13 12.06

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916369

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	1.00	0.0210	ug/L	06.14.13 15.06	U	10
4,4-DDE	72-55-9	U	1.00	0.0320	ug/L	06.14.13 15.06	U	10
4,4-DDT	50-29-3	**0.683**	1.00	0.0210	ug/L	06.14.13 15.06	J	10
Aldrin	309-00-2	U	0.500	0.0200	ug/L	06.14.13 15.06	U	10
Alpha-BHC	319-84-6	**1.25**	0.500	0.0170	ug/L	06.14.13 15.06		10
Alpha-Chlordane	5103-71-9	U	0.500	0.0110	ug/L	06.14.13 15.06	U	10
Beta-BHC	319-85-7	**1.31**	0.500	0.0150	ug/L	06.14.13 15.06		10
Chlordane	12789-03-6	U	5.00	0.322	ug/L	06.14.13 15.06	U	10
Delta-BHC	319-86-8	**1.71**	0.500	0.00900	ug/L	06.14.13 15.06		10
Dieldrin	60-57-1	U	1.00	0.0100	ug/L	06.14.13 15.06	U	10
Endosulfan I	959-98-8	U	0.500	0.0200	ug/L	06.14.13 15.06	U	10
Endosulfan II	33213-65-9	U	1.00	0.0190	ug/L	06.14.13 15.06	U	10
Endosulfan Sulfate	1031-07-8	**0.703**	1.00	0.0220	ug/L	06.14.13 15.06	J	10
Endrin	72-20-8	U	1.00	0.0140	ug/L	06.14.13 15.06	U	10
Endrin Aldehyde	7421-93-4	U	1.00	0.0220	ug/L	06.14.13 15.06	U	10
Endrin Ketone	53494-70-5	U	1.00	0.0130	ug/L	06.14.13 15.06	U	10
Gamma-BHC (Lindane)	58-89-9	U	0.500	0.00700	ug/L	06.14.13 15.06	U	10
Gamma-Chlordane	5103-74-2	U	0.500	0.0150	ug/L	06.14.13 15.06	U	10
Heptachlor	76-44-8	U	0.500	0.0190	ug/L	06.14.13 15.06	U	10
Heptachlor Epoxide	1024-57-3	U	0.500	0.00700	ug/L	06.14.13 15.06	U	10
Methoxychlor	72-43-5	U	5.00	0.100	ug/L	06.14.13 15.06	U	10
Toxaphene	8001-35-2	U	25.0	2.15	ug/L	06.14.13 15.06	U	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	0	%	27-135	06.14.13 15.06	***
Tetrachloro-m-xylene	877-09-8	111	%	27-135	06.14.13 15.06	
Decachlorobiphenyl	2051-24-3	81	%	26-154	06.14.13 15.06	
Decachlorobiphenyl	2051-24-3	129	%	26-154	06.14.13 15.06	

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Environmental International Corporation, Alpharetta, GA

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Sample Id: **MW-1A RE** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-002 RE Date Collected: 06.04.13 12.06

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 06.10.13 10.00

Seq Number: 923219

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	09.16.13 14.45	UK	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	09.16.13 14.45	UK	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	09.16.13 14.45	UK	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	09.16.13 14.45	UK	1
Alpha-BHC	319-84-6	U	0.0500	0.00170	ug/L	09.16.13 14.45	UK	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	09.16.13 14.45	UK	1
Beta-BHC	319-85-7	U	0.0500	0.00150	ug/L	09.16.13 14.45	UK	1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	09.16.13 14.45	UK	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	09.16.13 14.45	UK	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	09.16.13 14.45	UK	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	09.16.13 14.45	UK	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	09.16.13 14.45	UK	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	09.16.13 14.45	UK	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	09.16.13 14.45	UK	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	09.16.13 14.45	UK	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	09.16.13 14.45	UK	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	09.16.13 14.45	UK	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	09.16.13 14.45	UK	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	09.16.13 14.45	UK	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	09.16.13 14.45	UK	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	09.16.13 14.45	UK	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	09.16.13 14.45	UK	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	83	%	27-135	09.16.13 14.45	
Tetrachloro-m-xylene	877-09-8	79	%	27-135	09.16.13 14.45	
Decachlorobiphenyl	2051-24-3	117	%	26-154	09.16.13 14.45	
Decachlorobiphenyl	2051-24-3	110	%	26-154	09.16.13 14.45	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-2** Matrix: Water Date Received:06.07.13 12.19
Lab Sample Id: 464706-003 Date Collected: 06.03.13 15.14

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 915948 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.29**	1.00	0.548	mg/L	06.11.13 19.04		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 06.10.13 08.46
Seq Number: 916169

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.0865**	0.0500	0.000900	mg/L	06.12.13 21.41		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 915894

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	06.11.13 15.10	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	06.11.13 15.10	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	06.11.13 15.10	U	1

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Environmental International Corporation, Alpharetta, GA

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Sample Id: **MW-2** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-003 Date Collected: 06.03.13 15.14

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916200

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8		U	0.100	0.00210	ug/L	06.12.13 22.08	U	1
4,4-DDE	72-55-9		U	0.100	0.00320	ug/L	06.12.13 22.08	U	1
4,4-DDT	50-29-3		U	0.100	0.00210	ug/L	06.12.13 22.08	U	1
Aldrin	309-00-2		U	0.0500	0.00200	ug/L	06.12.13 22.08	U	1
Alpha-BHC	319-84-6		U	0.0500	0.00170	ug/L	06.12.13 22.08	U	1
Alpha-Chlordane	5103-71-9		U	0.0500	0.00110	ug/L	06.12.13 22.08	U	1
Beta-BHC	319-85-7		U	0.0500	0.00150	ug/L	06.12.13 22.08	U	1
Chlordane	12789-03-6		U	0.500	0.0322	ug/L	06.12.13 22.08	U	1
Delta-BHC	319-86-8		U	0.0500	0.000900	ug/L	06.12.13 22.08	U	1
Dieldrin	60-57-1		U	0.100	0.00100	ug/L	06.12.13 22.08	U	1
Endosulfan I	959-98-8		U	0.0500	0.00200	ug/L	06.12.13 22.08	U	1
Endosulfan II	33213-65-9		U	0.100	0.00190	ug/L	06.12.13 22.08	U	1
Endosulfan Sulfate	1031-07-8		U	0.100	0.00220	ug/L	06.12.13 22.08	U	1
Endrin	72-20-8		U	0.100	0.00140	ug/L	06.12.13 22.08	U	1
Endrin Aldehyde	7421-93-4		U	0.100	0.00220	ug/L	06.12.13 22.08	U	1
Endrin Ketone	53494-70-5		U	0.100	0.00130	ug/L	06.12.13 22.08	U	1
Gamma-BHC (Lindane)	58-89-9		U	0.0500	0.000700	ug/L	06.12.13 22.08	U	1
Gamma-Chlordane	5103-74-2		U	0.0500	0.00150	ug/L	06.12.13 22.08	U	1
Heptachlor	76-44-8		U	0.0500	0.00190	ug/L	06.12.13 22.08	U	1
Heptachlor Epoxide	1024-57-3		U	0.0500	0.000700	ug/L	06.12.13 22.08	U	1
Methoxychlor	72-43-5		U	0.500	0.0100	ug/L	06.12.13 22.08	U	1
Toxaphene	8001-35-2		U	2.50	0.215	ug/L	06.12.13 22.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	81	%	27-135	06.12.13 22.08	
Decachlorobiphenyl	2051-24-3	100	%	26-154	06.12.13 22.08	

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Environmental International Corporation, Alpharetta, GA

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Sample Id: **MW-4U** Matrix: Water Date Received:06.07.13 12.19
Lab Sample Id: 464706-004 Date Collected: 06.04.13 15.35

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 915948 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.38**	1.00	0.548	mg/L	06.11.13 19.23		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 06.10.13 08.46
Seq Number: 916169

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.248**	0.0500	0.000900	mg/L	06.12.13 21.42		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 915888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	06.10.13 16.42	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	06.10.13 16.42	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	06.10.13 16.42	U	1

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-4U** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-004 Date Collected: 06.04.13 15.35

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916200

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8		U	0.100	0.00210	ug/L	06.12.13 22.26	U	1
4,4-DDE	72-55-9		U	0.100	0.00320	ug/L	06.12.13 22.26	U	1
4,4-DDT	50-29-3		U	0.100	0.00210	ug/L	06.12.13 22.26	U	1
Aldrin	309-00-2		U	0.0500	0.00200	ug/L	06.12.13 22.26	U	1
Alpha-BHC	319-84-6		U	0.0500	0.00170	ug/L	06.12.13 22.26	U	1
Alpha-Chlordane	5103-71-9		U	0.0500	0.00110	ug/L	06.12.13 22.26	U	1
Beta-BHC	319-85-7		U	0.0500	0.00150	ug/L	06.12.13 22.26	U	1
Chlordane	12789-03-6		U	0.500	0.0322	ug/L	06.12.13 22.26	U	1
Delta-BHC	319-86-8		U	0.0500	0.000900	ug/L	06.12.13 22.26	U	1
Dieldrin	60-57-1		U	0.100	0.00100	ug/L	06.12.13 22.26	U	1
Endosulfan I	959-98-8		U	0.0500	0.00200	ug/L	06.12.13 22.26	U	1
Endosulfan II	33213-65-9		U	0.100	0.00190	ug/L	06.12.13 22.26	U	1
Endosulfan Sulfate	1031-07-8		U	0.100	0.00220	ug/L	06.12.13 22.26	U	1
Endrin	72-20-8		U	0.100	0.00140	ug/L	06.12.13 22.26	U	1
Endrin Aldehyde	7421-93-4		U	0.100	0.00220	ug/L	06.12.13 22.26	U	1
Endrin Ketone	53494-70-5		U	0.100	0.00130	ug/L	06.12.13 22.26	U	1
Gamma-BHC (Lindane)	58-89-9		U	0.0500	0.000700	ug/L	06.12.13 22.26	U	1
Gamma-Chlordane	5103-74-2		U	0.0500	0.00150	ug/L	06.12.13 22.26	U	1
Heptachlor	76-44-8		U	0.0500	0.00190	ug/L	06.12.13 22.26	U	1
Heptachlor Epoxide	1024-57-3		U	0.0500	0.000700	ug/L	06.12.13 22.26	U	1
Methoxychlor	72-43-5		U	0.500	0.0100	ug/L	06.12.13 22.26	U	1
Toxaphene	8001-35-2		U	2.50	0.215	ug/L	06.12.13 22.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	49	%	27-135	06.12.13 22.26	
Decachlorobiphenyl	2051-24-3	74	%	26-154	06.12.13 22.26	

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Sample Id: **MW-5A** Matrix: Water Date Received:06.07.13 12.19
Lab Sample Id: 464706-005 Date Collected: 06.04.13 18.28

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 915948 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.16**	1.00	0.548	mg/L	06.11.13 19.42		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 06.10.13 08.46
Seq Number: 916169

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**1.81**	0.0500	0.000900	mg/L	06.12.13 21.44		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 915888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	06.10.13 16.50	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	06.10.13 16.50	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	06.10.13 16.50	U	1

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Environmental International Corporation, Alpharetta, GA

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Sample Id: **MW-5A** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-005 Date Collected: 06.04.13 18.28

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916200

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	06.12.13 22.43	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	06.12.13 22.43	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	06.12.13 22.43	U	1
Aldrin	309-00-2	**0.0782**	0.0500	0.00200	ug/L	06.12.13 22.43		1
Alpha-BHC	319-84-6	**0.154**	0.0500	0.00170	ug/L	06.12.13 22.43		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	06.12.13 22.43	U	1
Beta-BHC	319-85-7	**5.35**	0.0500	0.00150	ug/L	06.12.13 22.43	E	1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	06.12.13 22.43	U	1
Delta-BHC	319-86-8	**0.348**	0.0500	0.000900	ug/L	06.12.13 22.43		1
Dieldrin	60-57-1	**5.60**	0.100	0.00100	ug/L	06.12.13 22.43	E	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	06.12.13 22.43	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	06.12.13 22.43	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	06.12.13 22.43	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	06.12.13 22.43	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	06.12.13 22.43	U	1
Endrin Ketone	53494-70-5	**0.122**	0.100	0.00130	ug/L	06.12.13 22.43		1
Gamma-BHC (Lindane)	58-89-9	**0.113**	0.0500	0.000700	ug/L	06.12.13 22.43		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	06.12.13 22.43	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	06.12.13 22.43	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	06.12.13 22.43	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	06.12.13 22.43	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	06.12.13 22.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	100	%	27-135	06.12.13 22.43	
Decachlorobiphenyl	2051-24-3	96	%	26-154	06.12.13 22.43	

Certificate of Analytical Results 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-5A DL** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-005 DL Date Collected: 06.04.13 18.28

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916369

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	1.00	0.0210	ug/L	06.14.13 15.24	U	10
4,4-DDE	72-55-9	U	1.00	0.0320	ug/L	06.14.13 15.24	U	10
4,4-DDT	50-29-3	**0.683**	1.00	0.0210	ug/L	06.14.13 15.24	J	10
Aldrin	309-00-2	U	0.500	0.0200	ug/L	06.14.13 15.24	U	10
Alpha-BHC	319-84-6	U	0.500	0.0170	ug/L	06.14.13 15.24	U	10
Alpha-Chlordane	5103-71-9	U	0.500	0.0110	ug/L	06.14.13 15.24	U	10
Beta-BHC	319-85-7	**4.20**	0.500	0.0150	ug/L	06.14.13 15.24		10
Chlordane	12789-03-6	U	5.00	0.322	ug/L	06.14.13 15.24	U	10
Delta-BHC	319-86-8	U	0.500	0.00900	ug/L	06.14.13 15.24	U	10
Dieldrin	60-57-1	**5.41**	1.00	0.0100	ug/L	06.14.13 15.24		10
Endosulfan I	959-98-8	U	0.500	0.0200	ug/L	06.14.13 15.24	U	10
Endosulfan II	33213-65-9	U	1.00	0.0190	ug/L	06.14.13 15.24	U	10
Endosulfan Sulfate	1031-07-8	**0.703**	1.00	0.0220	ug/L	06.14.13 15.24	J	10
Endrin	72-20-8	U	1.00	0.0140	ug/L	06.14.13 15.24	U	10
Endrin Aldehyde	7421-93-4	U	1.00	0.0220	ug/L	06.14.13 15.24	U	10
Endrin Ketone	53494-70-5	U	1.00	0.0130	ug/L	06.14.13 15.24	U	10
Gamma-BHC (Lindane)	58-89-9	U	0.500	0.00700	ug/L	06.14.13 15.24	U	10
Gamma-Chlordane	5103-74-2	U	0.500	0.0150	ug/L	06.14.13 15.24	U	10
Heptachlor	76-44-8	U	0.500	0.0190	ug/L	06.14.13 15.24	U	10
Heptachlor Epoxide	1024-57-3	U	0.500	0.00700	ug/L	06.14.13 15.24	U	10
Methoxychlor	72-43-5	U	5.00	0.100	ug/L	06.14.13 15.24	U	10
Toxaphene	8001-35-2	U	25.0	2.15	ug/L	06.14.13 15.24	U	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	0	%	27-135	06.14.13 15.24	***
Decachlorobiphenyl	2051-24-3	97	%	26-154	06.14.13 15.24	
Decachlorobiphenyl	2051-24-3	159	%	26-154	06.14.13 15.24	**

Certificate of Analytical Results 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-5D** Matrix: Water Date Received:06.07.13 12.19
Lab Sample Id: 464706-006 Date Collected: 06.04.13 17.31

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 915948 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**5.68**	1.00	0.548	mg/L	06.11.13 20.03		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 06.10.13 08.46
Seq Number: 916169

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**1.17**	0.0500	0.000900	mg/L	06.12.13 21.46		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 915888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	**0.0347**	0.00200	0.00187	mg/L	06.10.13 16.56		1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	06.10.13 16.56	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	06.10.13 16.56	U	1

Certificate of Analytical Results 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-5D** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-006 Date Collected: 06.04.13 17.31

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916200

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	06.12.13 23.01	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	06.12.13 23.01	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	06.12.13 23.01	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	06.12.13 23.01	U	1
Alpha-BHC	319-84-6	**0.215**	0.0500	0.00170	ug/L	06.12.13 23.01		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	06.12.13 23.01	U	1
Beta-BHC	319-85-7	**2.62**	0.0500	0.00150	ug/L	06.12.13 23.01	E	1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	06.12.13 23.01	U	1
Delta-BHC	319-86-8	**0.567**	0.0500	0.000900	ug/L	06.12.13 23.01		1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	06.12.13 23.01	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	06.12.13 23.01	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	06.12.13 23.01	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	06.12.13 23.01	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	06.12.13 23.01	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	06.12.13 23.01	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	06.12.13 23.01	U	1
Gamma-BHC (Lindane)	58-89-9	**0.225**	0.0500	0.000700	ug/L	06.12.13 23.01		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	06.12.13 23.01	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	06.12.13 23.01	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	06.12.13 23.01	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	06.12.13 23.01	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	06.12.13 23.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	87	%	27-135	06.12.13 23.01	
Decachlorobiphenyl	2051-24-3	103	%	26-154	06.12.13 23.01	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-5 DL** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-006 DL Date Collected: 06.04.13 17.31

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916369

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	1.00	0.0210	ug/L	06.14.13 15.42	U	10
4,4-DDE	72-55-9	U	1.00	0.0320	ug/L	06.14.13 15.42	U	10
4,4-DDT	50-29-3	**0.683**	1.00	0.0210	ug/L	06.14.13 15.42	J	10
Aldrin	309-00-2	U	0.500	0.0200	ug/L	06.14.13 15.42	U	10
Alpha-BHC	319-84-6	U	0.500	0.0170	ug/L	06.14.13 15.42	U	10
Alpha-Chlordane	5103-71-9	U	0.500	0.0110	ug/L	06.14.13 15.42	U	10
Beta-BHC	319-85-7	**2.49**	0.500	0.0150	ug/L	06.14.13 15.42		10
Chlordane	12789-03-6	U	5.00	0.322	ug/L	06.14.13 15.42	U	10
Delta-BHC	319-86-8	U	0.500	0.00900	ug/L	06.14.13 15.42	U	10
Dieldrin	60-57-1	U	1.00	0.0100	ug/L	06.14.13 15.42	U	10
Endosulfan I	959-98-8	U	0.500	0.0200	ug/L	06.14.13 15.42	U	10
Endosulfan II	33213-65-9	U	1.00	0.0190	ug/L	06.14.13 15.42	U	10
Endosulfan Sulfate	1031-07-8	**0.703**	1.00	0.0220	ug/L	06.14.13 15.42	J	10
Endrin	72-20-8	U	1.00	0.0140	ug/L	06.14.13 15.42	U	10
Endrin Aldehyde	7421-93-4	U	1.00	0.0220	ug/L	06.14.13 15.42	U	10
Endrin Ketone	53494-70-5	U	1.00	0.0130	ug/L	06.14.13 15.42	U	10
Gamma-BHC (Lindane)	58-89-9	U	0.500	0.00700	ug/L	06.14.13 15.42	U	10
Gamma-Chlordane	5103-74-2	U	0.500	0.0150	ug/L	06.14.13 15.42	U	10
Heptachlor	76-44-8	U	0.500	0.0190	ug/L	06.14.13 15.42	U	10
Heptachlor Epoxide	1024-57-3	U	0.500	0.00700	ug/L	06.14.13 15.42	U	10
Methoxychlor	72-43-5	U	5.00	0.100	ug/L	06.14.13 15.42	U	10
Toxaphene	8001-35-2	U	25.0	2.15	ug/L	06.14.13 15.42	U	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	0	%	27-135	06.14.13 15.42	***
Tetrachloro-m-xylene	877-09-8	110	%	27-135	06.14.13 15.42	
Decachlorobiphenyl	2051-24-3	158	%	26-154	06.14.13 15.42	**
Decachlorobiphenyl	2051-24-3	96	%	26-154	06.14.13 15.42	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-6** Matrix: Water Date Received:06.07.13 12.19
Lab Sample Id: 464706-007 Date Collected: 06.05.13 17.04

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 915948 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.32**	1.00	0.548	mg/L	06.11.13 20.33		1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: BLF % Moisture:
Analyst: BLF Date Prep: 06.07.13 13.10
Seq Number: 915732

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**219**	25.0	0.520	mg/L	06.10.13 13.10	D	5
Nitrate as N	14797-55-8	U	1.00	0.0240	mg/L	06.07.13 14.37	U	1
Sulfate	14808-79-8	**687**	125	4.20	mg/L	06.10.13 12.52	D	25

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 06.10.13 08.46
Seq Number: 916169

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**5.25**	0.0500	0.000900	mg/L	06.12.13 21.47		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 915888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	**0.0358**	0.00200	0.00187	mg/L	06.10.13 17.02		1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	06.10.13 17.02	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	06.10.13 17.02	U	1

Certificate of Analytical Results 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-6** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-007 Date Collected: 06.05.13 17.04

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916200

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	06.12.13 23.19	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	06.12.13 23.19	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	06.12.13 23.19	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	06.12.13 23.19	U	1
Alpha-BHC	319-84-6	**1.32**	0.0500	0.00170	ug/L	06.12.13 23.19	E	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	06.12.13 23.19	U	1
Beta-BHC	319-85-7	**1.45**	0.0500	0.00150	ug/L	06.12.13 23.19	E	1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	06.12.13 23.19	U	1
Delta-BHC	319-86-8	**2.26**	0.0500	0.000900	ug/L	06.12.13 23.19	E	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	06.12.13 23.19	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	06.12.13 23.19	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	06.12.13 23.19	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	06.12.13 23.19	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	06.12.13 23.19	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	06.12.13 23.19	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	06.12.13 23.19	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	06.12.13 23.19	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	06.12.13 23.19	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	06.12.13 23.19	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	06.12.13 23.19	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	06.12.13 23.19	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	06.12.13 23.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	74	%	27-135	06.12.13 23.19	
Decachlorobiphenyl	2051-24-3	99	%	26-154	06.12.13 23.19	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-6 DL** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-007 DL Date Collected: 06.05.13 17.04

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916369

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	1.00	0.0210	ug/L	06.14.13 15.59	U	10
4,4-DDE	72-55-9	U	1.00	0.0320	ug/L	06.14.13 15.59	U	10
4,4-DDT	50-29-3	**0.683**	1.00	0.0210	ug/L	06.14.13 15.59	J	10
Aldrin	309-00-2	U	0.500	0.0200	ug/L	06.14.13 15.59	U	10
Alpha-BHC	319-84-6	**1.23**	0.500	0.0170	ug/L	06.14.13 15.59		10
Alpha-Chlordane	5103-71-9	U	0.500	0.0110	ug/L	06.14.13 15.59	U	10
Beta-BHC	319-85-7	**1.36**	0.500	0.0150	ug/L	06.14.13 15.59		10
Chlordane	12789-03-6	U	5.00	0.322	ug/L	06.14.13 15.59	U	10
Delta-BHC	319-86-8	**1.69**	0.500	0.00900	ug/L	06.14.13 15.59		10
Dieldrin	60-57-1	U	1.00	0.0100	ug/L	06.14.13 15.59	U	10
Endosulfan I	959-98-8	U	0.500	0.0200	ug/L	06.14.13 15.59	U	10
Endosulfan II	33213-65-9	U	1.00	0.0190	ug/L	06.14.13 15.59	U	10
Endosulfan Sulfate	1031-07-8	**0.703**	1.00	0.0220	ug/L	06.14.13 15.59	J	10
Endrin	72-20-8	U	1.00	0.0140	ug/L	06.14.13 15.59	U	10
Endrin Aldehyde	7421-93-4	U	1.00	0.0220	ug/L	06.14.13 15.59	U	10
Endrin Ketone	53494-70-5	U	1.00	0.0130	ug/L	06.14.13 15.59	U	10
Gamma-BHC (Lindane)	58-89-9	U	0.500	0.00700	ug/L	06.14.13 15.59	U	10
Gamma-Chlordane	5103-74-2	U	0.500	0.0150	ug/L	06.14.13 15.59	U	10
Heptachlor	76-44-8	U	0.500	0.0190	ug/L	06.14.13 15.59	U	10
Heptachlor Epoxide	1024-57-3	U	0.500	0.00700	ug/L	06.14.13 15.59	U	10
Methoxychlor	72-43-5	U	5.00	0.100	ug/L	06.14.13 15.59	U	10
Toxaphene	8001-35-2	U	25.0	2.15	ug/L	06.14.13 15.59	U	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	114	%	27-135	06.14.13 15.59	
Tetrachloro-m-xylene	877-09-8	0	%	27-135	06.14.13 15.59	***
Decachlorobiphenyl	2051-24-3	83	%	26-154	06.14.13 15.59	
Decachlorobiphenyl	2051-24-3	134	%	26-154	06.14.13 15.59	

Certificate of Analytical Results 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-6 DL** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-007 DL Date Collected: 06.05.13 17.04

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 06.10.13 10.00

Seq Number: 923219

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	1.00	0.0210	ug/L	09.16.13 14.27	UK	10
4,4-DDE	72-55-9	U	1.00	0.0320	ug/L	09.16.13 14.27	UK	10
4,4-DDT	50-29-3	U	1.00	0.0210	ug/L	09.16.13 14.27	UK	10
Aldrin	309-00-2	U	0.500	0.0200	ug/L	09.16.13 14.27	UK	10
Alpha-BHC	319-84-6	**1.31**	0.500	0.0170	ug/L	09.16.13 14.27	K	10
Alpha-Chlordane	5103-71-9	U	0.500	0.0110	ug/L	09.16.13 14.27	UK	10
Beta-BHC	319-85-7	**1.08**	0.500	0.0150	ug/L	09.16.13 14.27	K	10
Chlordane	12789-03-6	U	5.00	0.322	ug/L	09.16.13 14.27	UK	10
Delta-BHC	319-86-8	**1.65**	0.500	0.00900	ug/L	09.16.13 14.27	K	10
Dieldrin	60-57-1	U	1.00	0.0100	ug/L	09.16.13 14.27	UK	10
Endosulfan I	959-98-8	U	0.500	0.0200	ug/L	09.16.13 14.27	UK	10
Endosulfan II	33213-65-9	U	1.00	0.0190	ug/L	09.16.13 14.27	UK	10
Endosulfan Sulfate	1031-07-8	U	1.00	0.0220	ug/L	09.16.13 14.27	UK	10
Endrin	72-20-8	U	1.00	0.0140	ug/L	09.16.13 14.27	UK	10
Endrin Aldehyde	7421-93-4	U	1.00	0.0220	ug/L	09.16.13 14.27	UK	10
Endrin Ketone	53494-70-5	U	1.00	0.0130	ug/L	09.16.13 14.27	UK	10
Gamma-BHC (Lindane)	58-89-9	U	0.500	0.00700	ug/L	09.16.13 14.27	UK	10
Gamma-Chlordane	5103-74-2	U	0.500	0.0150	ug/L	09.16.13 14.27	UK	10
Heptachlor	76-44-8	U	0.500	0.0190	ug/L	09.16.13 14.27	UK	10
Heptachlor Epoxide	1024-57-3	U	0.500	0.00700	ug/L	09.16.13 14.27	UK	10
Methoxychlor	72-43-5	U	5.00	0.100	ug/L	09.16.13 14.27	UK	10
Toxaphene	8001-35-2	U	25.0	2.15	ug/L	09.16.13 14.27	UK	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	51	%	27-135	09.16.13 14.27	
Tetrachloro-m-xylene	877-09-8	69	%	27-135	09.16.13 14.27	
Decachlorobiphenyl	2051-24-3	104	%	26-154	09.16.13 14.27	
Decachlorobiphenyl	2051-24-3	83	%	26-154	09.16.13 14.27	

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Sample Id: **MW-6 RE** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-007 RE Date Collected: 06.05.13 17.04

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 06.10.13 10.00

Seq Number: 923219

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	09.16.13 15.03	UK	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	09.16.13 15.03	UK	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	09.16.13 15.03	UK	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	09.16.13 15.03	UK	1
Alpha-BHC	319-84-6	**1.50**	0.0500	0.00170	ug/L	09.16.13 15.03	KE	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	09.16.13 15.03	UK	1
Beta-BHC	319-85-7	**1.34**	0.0500	0.00150	ug/L	09.16.13 15.03	KE	1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	09.16.13 15.03	UK	1
Delta-BHC	319-86-8	**3.08**	0.0500	0.000900	ug/L	09.16.13 15.03	KE	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	09.16.13 15.03	UK	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	09.16.13 15.03	UK	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	09.16.13 15.03	UK	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	09.16.13 15.03	UK	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	09.16.13 15.03	UK	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	09.16.13 15.03	UK	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	09.16.13 15.03	UK	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	09.16.13 15.03	UK	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	09.16.13 15.03	UK	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	09.16.13 15.03	UK	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	09.16.13 15.03	UK	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	09.16.13 15.03	UK	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	09.16.13 15.03	UK	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	55	%	27-135	09.16.13 15.03	
Tetrachloro-m-xylene	877-09-8	61	%	27-135	09.16.13 15.03	
Decachlorobiphenyl	2051-24-3	94	%	26-154	09.16.13 15.03	
Decachlorobiphenyl	2051-24-3	91	%	26-154	09.16.13 15.03	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-7** Matrix: Water Date Received:06.07.13 12.19
Lab Sample Id: 464706-008 Date Collected: 06.03.13 16.36

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 915948 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**2.29**	1.00	0.548	mg/L	06.11.13 21.36		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 06.10.13 08.46
Seq Number: 916169

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**6.68**	0.0500	0.000900	mg/L	06.12.13 21.49		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 915888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	06.10.13 17.13	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	06.10.13 17.13	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	06.10.13 17.13	U	1

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-7** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-008 Date Collected: 06.03.13 16.36

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916200

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	06.13.13 00.47	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	06.13.13 00.47	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	06.13.13 00.47	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	06.13.13 00.47	U	1
Alpha-BHC	319-84-6	U	0.0500	0.00170	ug/L	06.13.13 00.47	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	06.13.13 00.47	U	1
Beta-BHC	319-85-7	**0.489**	0.0500	0.00150	ug/L	06.13.13 00.47		1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	06.13.13 00.47	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	06.13.13 00.47	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	06.13.13 00.47	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	06.13.13 00.47	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	06.13.13 00.47	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	06.13.13 00.47	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	06.13.13 00.47	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	06.13.13 00.47	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	06.13.13 00.47	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0524**	0.0500	0.000700	ug/L	06.13.13 00.47		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	06.13.13 00.47	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	06.13.13 00.47	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	06.13.13 00.47	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	06.13.13 00.47	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	06.13.13 00.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	64	%	27-135	06.13.13 00.47	
Decachlorobiphenyl	2051-24-3	99	%	26-154	06.13.13 00.47	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-8** Matrix: Water Date Received:06.07.13 12.19
Lab Sample Id: 464706-009 Date Collected: 06.05.13 09.42

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 915948 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**0.844**	1.00	0.548	mg/L	06.11.13 21.56	J	1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 06.10.13 08.46
Seq Number: 916169

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.969**	0.0500	0.000900	mg/L	06.12.13 21.51		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 915888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	06.10.13 17.29	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	06.10.13 17.29	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	06.10.13 17.29	U	1

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-8** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-009 Date Collected: 06.05.13 09.42

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916200

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	06.13.13 01.04	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	06.13.13 01.04	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	06.13.13 01.04	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	06.13.13 01.04	U	1
Alpha-BHC	319-84-6	**0.266**	0.0500	0.00170	ug/L	06.13.13 01.04		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	06.13.13 01.04	U	1
Beta-BHC	319-85-7	**1.39**	0.0500	0.00150	ug/L	06.13.13 01.04	E	1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	06.13.13 01.04	U	1
Delta-BHC	319-86-8	**0.215**	0.0500	0.000900	ug/L	06.13.13 01.04		1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	06.13.13 01.04	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	06.13.13 01.04	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	06.13.13 01.04	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	06.13.13 01.04	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	06.13.13 01.04	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	06.13.13 01.04	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	06.13.13 01.04	U	1
Gamma-BHC (Lindane)	58-89-9	**0.147**	0.0500	0.000700	ug/L	06.13.13 01.04		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	06.13.13 01.04	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	06.13.13 01.04	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	06.13.13 01.04	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	06.13.13 01.04	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	06.13.13 01.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	86	%	27-135	06.13.13 01.04	
Decachlorobiphenyl	2051-24-3	104	%	26-154	06.13.13 01.04	

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GPA Bainbridge, GA

Sample Id: **MW-8 DL** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-009 DL Date Collected: 06.05.13 09.42

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916369

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	1.00	0.0210	ug/L	06.14.13 16.17	U	10
4,4-DDE	72-55-9	U	1.00	0.0320	ug/L	06.14.13 16.17	U	10
4,4-DDT	50-29-3	**0.683**	1.00	0.0210	ug/L	06.14.13 16.17	J	10
Aldrin	309-00-2	U	0.500	0.0200	ug/L	06.14.13 16.17	U	10
Alpha-BHC	319-84-6	U	0.500	0.0170	ug/L	06.14.13 16.17	U	10
Alpha-Chlordane	5103-71-9	U	0.500	0.0110	ug/L	06.14.13 16.17	U	10
Beta-BHC	319-85-7	**1.15**	0.500	0.0150	ug/L	06.14.13 16.17		10
Chlordane	12789-03-6	U	5.00	0.322	ug/L	06.14.13 16.17	U	10
Delta-BHC	319-86-8	U	0.500	0.00900	ug/L	06.14.13 16.17	U	10
Dieldrin	60-57-1	U	1.00	0.0100	ug/L	06.14.13 16.17	U	10
Endosulfan I	959-98-8	U	0.500	0.0200	ug/L	06.14.13 16.17	U	10
Endosulfan II	33213-65-9	U	1.00	0.0190	ug/L	06.14.13 16.17	U	10
Endosulfan Sulfate	1031-07-8	**0.703**	1.00	0.0220	ug/L	06.14.13 16.17	J	10
Endrin	72-20-8	U	1.00	0.0140	ug/L	06.14.13 16.17	U	10
Endrin Aldehyde	7421-93-4	U	1.00	0.0220	ug/L	06.14.13 16.17	U	10
Endrin Ketone	53494-70-5	U	1.00	0.0130	ug/L	06.14.13 16.17	U	10
Gamma-BHC (Lindane)	58-89-9	U	0.500	0.00700	ug/L	06.14.13 16.17	U	10
Gamma-Chlordane	5103-74-2	U	0.500	0.0150	ug/L	06.14.13 16.17	U	10
Heptachlor	76-44-8	U	0.500	0.0190	ug/L	06.14.13 16.17	U	10
Heptachlor Epoxide	1024-57-3	U	0.500	0.00700	ug/L	06.14.13 16.17	U	10
Methoxychlor	72-43-5	U	5.00	0.100	ug/L	06.14.13 16.17	U	10
Toxaphene	8001-35-2	U	25.0	2.15	ug/L	06.14.13 16.17	U	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	107	%	27-135	06.14.13 16.17	
Tetrachloro-m-xylene	877-09-8	0	%	27-135	06.14.13 16.17	***
Decachlorobiphenyl	2051-24-3	93	%	26-154	06.14.13 16.17	
Decachlorobiphenyl	2051-24-3	157	%	26-154	06.14.13 16.17	**

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GPA Bainbridge, GA

Sample Id: **MW-10** Matrix: Water Date Received:06.07.13 12.19
Lab Sample Id: 464706-010 Date Collected: 06.05.13 18.05

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 915948 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**2.39**	1.00	0.548	mg/L	06.11.13 22.15		1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: BLF % Moisture:
Analyst: BLF Date Prep: 06.07.13 13.10
Seq Number: 915732

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**42.6**	5.00	0.104	mg/L	06.07.13 14.55		1
Nitrate as N	14797-55-8	**4.97**	1.00	0.0240	mg/L	06.07.13 14.55		1
Sulfate	14808-79-8	**468**	125	4.20	mg/L	06.10.13 13.27	D	25

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 06.10.13 08.46
Seq Number: 916169

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**1.07**	0.0500	0.000900	mg/L	06.12.13 21.52		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 915888

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	06.10.13 17.35	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	06.10.13 17.35	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	06.10.13 17.35	U	1

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Sample Id: **MW-10** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-010 Date Collected: 06.05.13 18.05

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916200

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	06.13.13 01.22	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	06.13.13 01.22	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	06.13.13 01.22	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	06.13.13 01.22	U	1
Alpha-BHC	319-84-6	**0.427**	0.0500	0.00170	ug/L	06.13.13 01.22		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	06.13.13 01.22	U	1
Beta-BHC	319-85-7	**7.13**	0.0500	0.00150	ug/L	06.13.13 01.22	E	1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	06.13.13 01.22	U	1
Delta-BHC	319-86-8	**0.372**	0.0500	0.000900	ug/L	06.13.13 01.22		1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	06.13.13 01.22	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	06.13.13 01.22	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	06.13.13 01.22	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	06.13.13 01.22	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	06.13.13 01.22	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	06.13.13 01.22	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	06.13.13 01.22	U	1
Gamma-BHC (Lindane)	58-89-9	**0.181**	0.0500	0.000700	ug/L	06.13.13 01.22		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	06.13.13 01.22	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	06.13.13 01.22	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	06.13.13 01.22	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	06.13.13 01.22	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	06.13.13 01.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	53	%	27-135	06.13.13 01.22	
Decachlorobiphenyl	2051-24-3	91	%	26-154	06.13.13 01.22	

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Environmental International Corporation, Alpharetta, GA

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Sample Id: **MW-10 DL** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-010 DL Date Collected: 06.05.13 18.05

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916369

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	1.00	0.0210	ug/L	06.14.13 16.34	U	10
4,4-DDE	72-55-9	U	1.00	0.0320	ug/L	06.14.13 16.34	U	10
4,4-DDT	50-29-3	**0.683**	1.00	0.0210	ug/L	06.14.13 16.34	J	10
Aldrin	309-00-2	U	0.500	0.0200	ug/L	06.14.13 16.34	U	10
Alpha-BHC	319-84-6	**0.434**	0.500	0.0170	ug/L	06.14.13 16.34	J	10
Alpha-Chlordane	5103-71-9	U	0.500	0.0110	ug/L	06.14.13 16.34	U	10
Beta-BHC	319-85-7	**5.79**	0.500	0.0150	ug/L	06.14.13 16.34		10
Chlordane	12789-03-6	U	5.00	0.322	ug/L	06.14.13 16.34	U	10
Delta-BHC	319-86-8	U	0.500	0.00900	ug/L	06.14.13 16.34	U	10
Dieldrin	60-57-1	U	1.00	0.0100	ug/L	06.14.13 16.34	U	10
Endosulfan I	959-98-8	U	0.500	0.0200	ug/L	06.14.13 16.34	U	10
Endosulfan II	33213-65-9	U	1.00	0.0190	ug/L	06.14.13 16.34	U	10
Endosulfan Sulfate	1031-07-8	**0.703**	1.00	0.0220	ug/L	06.14.13 16.34	J	10
Endrin	72-20-8	U	1.00	0.0140	ug/L	06.14.13 16.34	U	10
Endrin Aldehyde	7421-93-4	U	1.00	0.0220	ug/L	06.14.13 16.34	U	10
Endrin Ketone	53494-70-5	U	1.00	0.0130	ug/L	06.14.13 16.34	U	10
Gamma-BHC (Lindane)	58-89-9	U	0.500	0.00700	ug/L	06.14.13 16.34	U	10
Gamma-Chlordane	5103-74-2	U	0.500	0.0150	ug/L	06.14.13 16.34	U	10
Heptachlor	76-44-8	U	0.500	0.0190	ug/L	06.14.13 16.34	U	10
Heptachlor Epoxide	1024-57-3	U	0.500	0.00700	ug/L	06.14.13 16.34	U	10
Methoxychlor	72-43-5	U	5.00	0.100	ug/L	06.14.13 16.34	U	10
Toxaphene	8001-35-2	U	25.0	2.15	ug/L	06.14.13 16.34	U	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	0	%	27-135	06.14.13 16.34	***
Tetrachloro-m-xylene	877-09-8	64	%	27-135	06.14.13 16.34	
Decachlorobiphenyl	2051-24-3	0	%	26-154	06.14.13 16.34	***

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-10 DUPLICATE** Matrix: Water Date Received:06.07.13 12.19
Lab Sample Id: 464706-011 Date Collected: 06.05.13 18.13

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 915948 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**2.51**	1.00	0.548	mg/L	06.11.13 22.37		1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: BLF % Moisture:
Analyst: BLF Date Prep: 06.07.13 13.10
Seq Number: 915732

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**42.4**	5.00	0.104	mg/L	06.07.13 15.12		1
Nitrate as N	14797-55-8	**4.90**	1.00	0.0240	mg/L	06.07.13 15.12		1
Sulfate	14808-79-8	**598**	125	4.20	mg/L	06.10.13 14.02	D	25

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 06.10.13 08.46
Seq Number: 916169

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**1.04**	0.0500	0.000900	mg/L	06.12.13 21.54		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 915894

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	06.11.13 11.51	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	06.11.13 11.51	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	06.11.13 11.51	U	1

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-10 DUPLICATE** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-011 Date Collected: 06.05.13 18.13

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916200

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	06.13.13 01.39	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	06.13.13 01.39	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	06.13.13 01.39	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	06.13.13 01.39	U	1
Alpha-BHC	319-84-6	**0.660**	0.0500	0.00170	ug/L	06.13.13 01.39		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	06.13.13 01.39	U	1
Beta-BHC	319-85-7	**10.9**	0.0500	0.00150	ug/L	06.13.13 01.39	E	1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	06.13.13 01.39	U	1
Delta-BHC	319-86-8	**0.547**	0.0500	0.000900	ug/L	06.13.13 01.39		1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	06.13.13 01.39	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	06.13.13 01.39	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	06.13.13 01.39	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	06.13.13 01.39	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	06.13.13 01.39	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	06.13.13 01.39	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	06.13.13 01.39	U	1
Gamma-BHC (Lindane)	58-89-9	**0.279**	0.0500	0.000700	ug/L	06.13.13 01.39		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	06.13.13 01.39	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	06.13.13 01.39	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	06.13.13 01.39	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	06.13.13 01.39	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	06.13.13 01.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	96	%	27-135	06.13.13 01.39	
Decachlorobiphenyl	2051-24-3	101	%	26-154	06.13.13 01.39	

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Environmental International Corporation, Alpharetta, GA

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Sample Id: **MW-10 DUPLICATE DL** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-011 DL Date Collected: 06.05.13 18.13

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916369

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	5.00	0.105	ug/L	06.14.13 16.52	U	50
4,4-DDE	72-55-9	U	5.00	0.160	ug/L	06.14.13 16.52	U	50
4,4-DDT	50-29-3	**3.42**	5.00	0.105	ug/L	06.14.13 16.52	J	50
Aldrin	309-00-2	U	2.50	0.100	ug/L	06.14.13 16.52	U	50
Alpha-BHC	319-84-6	U	2.50	0.0850	ug/L	06.14.13 16.52	U	50
Alpha-Chlordane	5103-71-9	U	2.50	0.0550	ug/L	06.14.13 16.52	U	50
Beta-BHC	319-85-7	**7.77**	2.50	0.0750	ug/L	06.14.13 16.52		50
Chlordane	12789-03-6	U	25.0	1.61	ug/L	06.14.13 16.52	U	50
Delta-BHC	319-86-8	U	2.50	0.0450	ug/L	06.14.13 16.52	U	50
Dieldrin	60-57-1	U	5.00	0.0500	ug/L	06.14.13 16.52	U	50
Endosulfan I	959-98-8	U	2.50	0.100	ug/L	06.14.13 16.52	U	50
Endosulfan II	33213-65-9	U	5.00	0.0950	ug/L	06.14.13 16.52	U	50
Endosulfan Sulfate	1031-07-8	**3.52**	5.00	0.110	ug/L	06.14.13 16.52	J	50
Endrin	72-20-8	U	5.00	0.0700	ug/L	06.14.13 16.52	U	50
Endrin Aldehyde	7421-93-4	U	5.00	0.110	ug/L	06.14.13 16.52	U	50
Endrin Ketone	53494-70-5	U	5.00	0.0650	ug/L	06.14.13 16.52	U	50
Gamma-BHC (Lindane)	58-89-9	U	2.50	0.0350	ug/L	06.14.13 16.52	U	50
Gamma-Chlordane	5103-74-2	U	2.50	0.0750	ug/L	06.14.13 16.52	U	50
Heptachlor	76-44-8	U	2.50	0.0950	ug/L	06.14.13 16.52	U	50
Heptachlor Epoxide	1024-57-3	U	2.50	0.0350	ug/L	06.14.13 16.52	U	50
Methoxychlor	72-43-5	U	25.0	0.500	ug/L	06.14.13 16.52	U	50
Toxaphene	8001-35-2	U	125	10.8	ug/L	06.14.13 16.52	U	50

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	0	%	27-135	06.14.13 16.52	***
Tetrachloro-m-xylene	877-09-8	156	%	27-135	06.14.13 16.52	**
Decachlorobiphenyl	2051-24-3	0	%	26-154	06.14.13 16.52	***

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Environmental International Corporation, Alpharetta, GA

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Sample Id: **MW-11** Matrix: Water Date Received:06.07.13 12.19
Lab Sample Id: 464706-012 Date Collected: 06.04.13 10.22

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 915948 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	06.11.13 22.59		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 06.10.13 08.46
Seq Number: 916169

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.0351**	0.0500	0.000900	mg/L	06.12.13 21.56	J	1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 915894

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	06.11.13 11.59	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	06.11.13 11.59	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	06.11.13 11.59	U	1

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-11** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-012 Date Collected: 06.04.13 10.22

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916200

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8		U	0.100	0.00210	ug/L	06.13.13 01.57	U	1
4,4-DDE	72-55-9		U	0.100	0.00320	ug/L	06.13.13 01.57	U	1
4,4-DDT	50-29-3		U	0.100	0.00210	ug/L	06.13.13 01.57	U	1
Aldrin	309-00-2		U	0.0500	0.00200	ug/L	06.13.13 01.57	U	1
Alpha-BHC	319-84-6		U	0.0500	0.00170	ug/L	06.13.13 01.57	U	1
Alpha-Chlordane	5103-71-9		U	0.0500	0.00110	ug/L	06.13.13 01.57	U	1
Beta-BHC	319-85-7		U	0.0500	0.00150	ug/L	06.13.13 01.57	U	1
Chlordane	12789-03-6		U	0.500	0.0322	ug/L	06.13.13 01.57	U	1
Delta-BHC	319-86-8		U	0.0500	0.000900	ug/L	06.13.13 01.57	U	1
Dieldrin	60-57-1		U	0.100	0.00100	ug/L	06.13.13 01.57	U	1
Endosulfan I	959-98-8		U	0.0500	0.00200	ug/L	06.13.13 01.57	U	1
Endosulfan II	33213-65-9		U	0.100	0.00190	ug/L	06.13.13 01.57	U	1
Endosulfan Sulfate	1031-07-8		U	0.100	0.00220	ug/L	06.13.13 01.57	U	1
Endrin	72-20-8		U	0.100	0.00140	ug/L	06.13.13 01.57	U	1
Endrin Aldehyde	7421-93-4		U	0.100	0.00220	ug/L	06.13.13 01.57	U	1
Endrin Ketone	53494-70-5		U	0.100	0.00130	ug/L	06.13.13 01.57	U	1
Gamma-BHC (Lindane)	58-89-9		U	0.0500	0.000700	ug/L	06.13.13 01.57	U	1
Gamma-Chlordane	5103-74-2		U	0.0500	0.00150	ug/L	06.13.13 01.57	U	1
Heptachlor	76-44-8		U	0.0500	0.00190	ug/L	06.13.13 01.57	U	1
Heptachlor Epoxide	1024-57-3		U	0.0500	0.000700	ug/L	06.13.13 01.57	U	1
Methoxychlor	72-43-5		U	0.500	0.0100	ug/L	06.13.13 01.57	U	1
Toxaphene	8001-35-2		U	2.50	0.215	ug/L	06.13.13 01.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	62	%	27-135	06.13.13 01.57	
Decachlorobiphenyl	2051-24-3	98	%	26-154	06.13.13 01.57	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-12** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-013 Date Collected: 06.05.13 08.15

Analytical Method: Total Organic Carbon by SW-846 9060

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 915948 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**0.736**	1.00	0.548	mg/L	06.11.13 23.18	J	1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A

Tech: ABA % Moisture:

Analyst: 4150 Date Prep: 06.10.13 08.46

Seq Number: 916169

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.00740**	0.0500	0.000900	mg/L	06.12.13 22.02	J	1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175

Tech: MWE % Moisture:

Analyst: MWE

Seq Number: 915894

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	06.11.13 12.07	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	06.11.13 12.07	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	06.11.13 12.07	U	1

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Environmental International Corporation, Alpharetta, GA

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Sample Id: **MW-12** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-013 Date Collected: 06.05.13 08.15

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916200

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	06.13.13 02.14	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	06.13.13 02.14	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	06.13.13 02.14	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	06.13.13 02.14	U	1
Alpha-BHC	319-84-6	**0.0370**	0.0500	0.00170	ug/L	06.13.13 02.14	J	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	06.13.13 02.14	U	1
Beta-BHC	319-85-7	**0.633**	0.0500	0.00150	ug/L	06.13.13 02.14		1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	06.13.13 02.14	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	06.13.13 02.14	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	06.13.13 02.14	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	06.13.13 02.14	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	06.13.13 02.14	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	06.13.13 02.14	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	06.13.13 02.14	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	06.13.13 02.14	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	06.13.13 02.14	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	06.13.13 02.14	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	06.13.13 02.14	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	06.13.13 02.14	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	06.13.13 02.14	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	06.13.13 02.14	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	06.13.13 02.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	95	%	27-135	06.13.13 02.14	
Decachlorobiphenyl	2051-24-3	95	%	26-154	06.13.13 02.14	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-14** Matrix: Water Date Received:06.07.13 12.19
Lab Sample Id: 464706-014 Date Collected: 06.05.13 15.53

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 915948 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.78**	1.00	0.548	mg/L	06.11.13 23.36		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 06.10.13 08.46
Seq Number: 916169

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.323**	0.0500	0.000900	mg/L	06.12.13 22.04		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 915894

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	**0.00940**	0.00200	0.00187	mg/L	06.11.13 12.15		1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	06.11.13 12.15	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	06.11.13 12.15	U	1

Certificate of Analytical Results 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-14** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-014 Date Collected: 06.05.13 15.53

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916200

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8		U	0.100	0.00210	ug/L	06.13.13 02.32	U	1
4,4-DDE	72-55-9		U	0.100	0.00320	ug/L	06.13.13 02.32	U	1
4,4-DDT	50-29-3		U	0.100	0.00210	ug/L	06.13.13 02.32	U	1
Aldrin	309-00-2		U	0.0500	0.00200	ug/L	06.13.13 02.32	U	1
Alpha-BHC	319-84-6		U	0.0500	0.00170	ug/L	06.13.13 02.32	U	1
Alpha-Chlordane	5103-71-9		U	0.0500	0.00110	ug/L	06.13.13 02.32	U	1
Beta-BHC	319-85-7		U	0.0500	0.00150	ug/L	06.13.13 02.32	U	1
Chlordane	12789-03-6		U	0.500	0.0322	ug/L	06.13.13 02.32	U	1
Delta-BHC	319-86-8		U	0.0500	0.000900	ug/L	06.13.13 02.32	U	1
Dieldrin	60-57-1		U	0.100	0.00100	ug/L	06.13.13 02.32	U	1
Endosulfan I	959-98-8		U	0.0500	0.00200	ug/L	06.13.13 02.32	U	1
Endosulfan II	33213-65-9		U	0.100	0.00190	ug/L	06.13.13 02.32	U	1
Endosulfan Sulfate	1031-07-8		U	0.100	0.00220	ug/L	06.13.13 02.32	U	1
Endrin	72-20-8		U	0.100	0.00140	ug/L	06.13.13 02.32	U	1
Endrin Aldehyde	7421-93-4		U	0.100	0.00220	ug/L	06.13.13 02.32	U	1
Endrin Ketone	53494-70-5		U	0.100	0.00130	ug/L	06.13.13 02.32	U	1
Gamma-BHC (Lindane)	58-89-9		U	0.0500	0.000700	ug/L	06.13.13 02.32	U	1
Gamma-Chlordane	5103-74-2		U	0.0500	0.00150	ug/L	06.13.13 02.32	U	1
Heptachlor	76-44-8		U	0.0500	0.00190	ug/L	06.13.13 02.32	U	1
Heptachlor Epoxide	1024-57-3		U	0.0500	0.000700	ug/L	06.13.13 02.32	U	1
Methoxychlor	72-43-5		U	0.500	0.0100	ug/L	06.13.13 02.32	U	1
Toxaphene	8001-35-2		U	2.50	0.215	ug/L	06.13.13 02.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	80	%	27-135	06.13.13 02.32	
Decachlorobiphenyl	2051-24-3	86	%	26-154	06.13.13 02.32	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-16** Matrix: Water Date Received:06.07.13 12.19
Lab Sample Id: 464706-015 Date Collected: 06.05.13 12.01

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 915948 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**0.679**	1.00	0.548	mg/L	06.11.13 23.56	J	1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 06.10.13 08.46
Seq Number: 916169

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.0251**	0.0500	0.000900	mg/L	06.12.13 22.05	J	1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 915894

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	06.11.13 12.23	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	06.11.13 12.23	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	06.11.13 12.23	U	1

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-16** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-015 Date Collected: 06.05.13 12.01

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916200

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	06.13.13 02.50	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	06.13.13 02.50	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	06.13.13 02.50	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	06.13.13 02.50	U	1
Alpha-BHC	319-84-6	U	0.0500	0.00170	ug/L	06.13.13 02.50	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	06.13.13 02.50	U	1
Beta-BHC	319-85-7	**0.204**	0.0500	0.00150	ug/L	06.13.13 02.50		1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	06.13.13 02.50	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	06.13.13 02.50	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	06.13.13 02.50	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	06.13.13 02.50	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	06.13.13 02.50	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	06.13.13 02.50	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	06.13.13 02.50	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	06.13.13 02.50	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	06.13.13 02.50	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	06.13.13 02.50	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	06.13.13 02.50	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	06.13.13 02.50	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	06.13.13 02.50	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	06.13.13 02.50	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	06.13.13 02.50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	66	%	27-135	06.13.13 02.50	
Decachlorobiphenyl	2051-24-3	101	%	26-154	06.13.13 02.50	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-17** Matrix: Water Date Received:06.07.13 12.19
Lab Sample Id: 464706-016 Date Collected: 06.05.13 10.43

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 915948 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.00**	1.00	0.548	mg/L	06.11.13 00.14	J	1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 06.10.13 08.46
Seq Number: 916179

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.211**	0.0500	0.000900	mg/L	06.12.13 22.17		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 915894

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	06.11.13 12.30	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	06.11.13 12.30	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	06.11.13 12.30	U	1

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-17** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-016 Date Collected: 06.05.13 10.43

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916200

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	06.13.13 03.07	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	06.13.13 03.07	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	06.13.13 03.07	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	06.13.13 03.07	U	1
Alpha-BHC	319-84-6	U	0.0500	0.00170	ug/L	06.13.13 03.07	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	06.13.13 03.07	U	1
Beta-BHC	319-85-7	**0.388**	0.0500	0.00150	ug/L	06.13.13 03.07		1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	06.13.13 03.07	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	06.13.13 03.07	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	06.13.13 03.07	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	06.13.13 03.07	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	06.13.13 03.07	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	06.13.13 03.07	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	06.13.13 03.07	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	06.13.13 03.07	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	06.13.13 03.07	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	06.13.13 03.07	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	06.13.13 03.07	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	06.13.13 03.07	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	06.13.13 03.07	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	06.13.13 03.07	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	06.13.13 03.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	100	%	27-135	06.13.13 03.07	
Decachlorobiphenyl	2051-24-3	102	%	26-154	06.13.13 03.07	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-18** Matrix: Water Date Received:06.07.13 12.19
Lab Sample Id: 464706-017 Date Collected: 06.06.13 16.17

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 915948 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**2.65**	1.00	0.548	mg/L	06.11.13 00.34		1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: BLF % Moisture:
Analyst: BLF Date Prep: 06.07.13 13.10
Seq Number: 915732

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**72.2**	50.0	1.04	mg/L	06.07.13 19.52	D	10
Nitrate as N	14797-55-8	**138**	25.0	0.600	mg/L	06.07.13 19.35	D	25
Sulfate	14808-79-8	**155**	50.0	1.68	mg/L	06.07.13 19.52	D	10

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 06.10.13 08.46
Seq Number: 916179

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**1.88**	0.0500	0.000900	mg/L	06.12.13 22.32		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 915894

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	06.11.13 12.38	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	06.11.13 12.38	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	06.11.13 12.38	U	1

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-18** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-017 Date Collected: 06.06.13 16.17

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916200

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	06.13.13 03.25	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	06.13.13 03.25	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	06.13.13 03.25	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	06.13.13 03.25	U	1
Alpha-BHC	319-84-6	U	0.0500	0.00170	ug/L	06.13.13 03.25	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	06.13.13 03.25	U	1
Beta-BHC	319-85-7	**0.472**	0.0500	0.00150	ug/L	06.13.13 03.25		1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	06.13.13 03.25	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	06.13.13 03.25	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	06.13.13 03.25	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	06.13.13 03.25	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	06.13.13 03.25	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	06.13.13 03.25	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	06.13.13 03.25	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	06.13.13 03.25	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	06.13.13 03.25	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	06.13.13 03.25	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	06.13.13 03.25	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	06.13.13 03.25	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	06.13.13 03.25	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	06.13.13 03.25	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	06.13.13 03.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	56	%	27-135	06.13.13 03.25	
Decachlorobiphenyl	2051-24-3	96	%	26-154	06.13.13 03.25	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-19** Matrix: Water Date Received:06.07.13 12.19
Lab Sample Id: 464706-018 Date Collected: 06.06.13 15.22

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 915948 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**2.44**	1.00	0.548	mg/L	06.11.13 01.37		1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: BLF % Moisture:
Analyst: BLF Date Prep: 06.07.13 13.10
Seq Number: 915732

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**32.5**	5.00	0.104	mg/L	06.07.13 17.15		1
Nitrate as N	14797-55-8	**96.1**	10.0	0.240	mg/L	06.07.13 19.00	D	10
Sulfate	14808-79-8	**227**	25.0	0.840	mg/L	06.07.13 19.17	D	5

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 06.10.13 08.46
Seq Number: 916179

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.934**	0.0500	0.000900	mg/L	06.12.13 22.33		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 915894

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	06.11.13 13.15	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	06.11.13 13.15	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	06.11.13 13.15	U	1

Certificate of Analytical Results 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-19** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-018 Date Collected: 06.06.13 15.22

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916200

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	06.13.13 03.42	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	06.13.13 03.42	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	06.13.13 03.42	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	06.13.13 03.42	U	1
Alpha-BHC	319-84-6	U	0.0500	0.00170	ug/L	06.13.13 03.42	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	06.13.13 03.42	U	1
Beta-BHC	319-85-7	U	0.0500	0.00150	ug/L	06.13.13 03.42	U	1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	06.13.13 03.42	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	06.13.13 03.42	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	06.13.13 03.42	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	06.13.13 03.42	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	06.13.13 03.42	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	06.13.13 03.42	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	06.13.13 03.42	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	06.13.13 03.42	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	06.13.13 03.42	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	06.13.13 03.42	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	06.13.13 03.42	UX	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	06.13.13 03.42	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	06.13.13 03.42	UX	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	06.13.13 03.42	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	06.13.13 03.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	61	%	27-135	06.13.13 03.42	
Decachlorobiphenyl	2051-24-3	98	%	26-154	06.13.13 03.42	

Certificate of Analytical Results 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-20** Matrix: Water Date Received:06.07.13 12.19
Lab Sample Id: 464706-020 Date Collected: 06.06.13 10.25

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 915948 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.54**	1.00	0.548	mg/L	06.11.13 01.56		1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: BLF % Moisture:
Analyst: BLF Date Prep: 06.07.13 13.10
Seq Number: 915732

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**10.2**	5.00	0.104	mg/L	06.07.13 16.05		1
Nitrate as N	14797-55-8	**3.63**	1.00	0.0240	mg/L	06.07.13 16.05		1
Sulfate	14808-79-8	**115**	25.0	0.840	mg/L	06.10.13 14.37	D	5

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 06.10.13 08.46
Seq Number: 916179

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.697**	0.0500	0.000900	mg/L	06.12.13 22.37		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 915894

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	06.11.13 13.22	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	06.11.13 13.22	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	06.11.13 13.22	U	1

Certificate of Analytical Results 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-20** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-020 Date Collected: 06.06.13 10.25

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916200

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	06.13.13 04.00	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	06.13.13 04.00	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	06.13.13 04.00	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	06.13.13 04.00	U	1
Alpha-BHC	319-84-6	**0.0330**	0.0500	0.00170	ug/L	06.13.13 04.00	J	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	06.13.13 04.00	U	1
Beta-BHC	319-85-7	**4.54**	0.0500	0.00150	ug/L	06.13.13 04.00	E	1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	06.13.13 04.00	U	1
Delta-BHC	319-86-8	**0.158**	0.0500	0.000900	ug/L	06.13.13 04.00		1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	06.13.13 04.00	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	06.13.13 04.00	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	06.13.13 04.00	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	06.13.13 04.00	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	06.13.13 04.00	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	06.13.13 04.00	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	06.13.13 04.00	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	06.13.13 04.00	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	06.13.13 04.00	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	06.13.13 04.00	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	06.13.13 04.00	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	06.13.13 04.00	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	06.13.13 04.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	49	%	27-135	06.13.13 04.00	
Decachlorobiphenyl	2051-24-3	68	%	26-154	06.13.13 04.00	

Certificate of Analytical Results 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-20 DL** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-020 DL Date Collected: 06.06.13 10.25

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 10.00

Seq Number: 916369

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	1.00	0.0210	ug/L	06.14.13 17.10	U	10
4,4-DDE	72-55-9	U	1.00	0.0320	ug/L	06.14.13 17.10	U	10
4,4-DDT	50-29-3	**0.683**	1.00	0.0210	ug/L	06.14.13 17.10	J	10
Aldrin	309-00-2	U	0.500	0.0200	ug/L	06.14.13 17.10	U	10
Alpha-BHC	319-84-6	U	0.500	0.0170	ug/L	06.14.13 17.10	U	10
Alpha-Chlordane	5103-71-9	U	0.500	0.0110	ug/L	06.14.13 17.10	U	10
Beta-BHC	319-85-7	**4.15**	0.500	0.0150	ug/L	06.14.13 17.10		10
Chlordane	12789-03-6	U	5.00	0.322	ug/L	06.14.13 17.10	U	10
Delta-BHC	319-86-8	U	0.500	0.00900	ug/L	06.14.13 17.10	U	10
Dieldrin	60-57-1	U	1.00	0.0100	ug/L	06.14.13 17.10	U	10
Endosulfan I	959-98-8	U	0.500	0.0200	ug/L	06.14.13 17.10	U	10
Endosulfan II	33213-65-9	U	1.00	0.0190	ug/L	06.14.13 17.10	U	10
Endosulfan Sulfate	1031-07-8	**0.703**	1.00	0.0220	ug/L	06.14.13 17.10	J	10
Endrin	72-20-8	U	1.00	0.0140	ug/L	06.14.13 17.10	U	10
Endrin Aldehyde	7421-93-4	U	1.00	0.0220	ug/L	06.14.13 17.10	U	10
Endrin Ketone	53494-70-5	U	1.00	0.0130	ug/L	06.14.13 17.10	U	10
Gamma-BHC (Lindane)	58-89-9	U	0.500	0.00700	ug/L	06.14.13 17.10	U	10
Gamma-Chlordane	5103-74-2	U	0.500	0.0150	ug/L	06.14.13 17.10	U	10
Heptachlor	76-44-8	U	0.500	0.0190	ug/L	06.14.13 17.10	U	10
Heptachlor Epoxide	1024-57-3	U	0.500	0.00700	ug/L	06.14.13 17.10	U	10
Methoxychlor	72-43-5	U	5.00	0.100	ug/L	06.14.13 17.10	U	10
Toxaphene	8001-35-2	U	25.0	2.15	ug/L	06.14.13 17.10	U	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	56	%	27-135	06.14.13 17.10	
Tetrachloro-m-xylene	877-09-8	0	%	27-135	06.14.13 17.10	***
Decachlorobiphenyl	2051-24-3	0	%	26-154	06.14.13 17.10	***

Certificate of Analytical Results 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-21** Matrix: Water Date Received:06.07.13 12.19
Lab Sample Id: 464706-021 Date Collected: 06.06.13 08.53

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 915948 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.66**	1.00	0.548	mg/L	06.11.13 02.16		1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: BLF % Moisture:
Analyst: BLF Date Prep: 06.07.13 13.10
Seq Number: 915732

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7.29**	5.00	0.104	mg/L	06.07.13 15.47		1
Nitrate as N	14797-55-8	**1.47**	1.00	0.0240	mg/L	06.07.13 15.47		1
Sulfate	14808-79-8	**54.7**	10.0	0.336	mg/L	06.10.13 15.12	D	2

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 06.10.13 08.46
Seq Number: 916179

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.500**	0.0500	0.000900	mg/L	06.12.13 22.38		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 915894

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	06.11.13 13.29	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	06.11.13 13.29	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	06.11.13 13.29	U	1

Certificate of Analytical Results 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-21** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-021 Date Collected: 06.06.13 08.53

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 14.30

Seq Number: 916203

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	06.14.13 11.45	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	06.14.13 11.45	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	06.14.13 11.45	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	06.14.13 11.45	U	1
Alpha-BHC	319-84-6	U	0.0500	0.00170	ug/L	06.14.13 11.45	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	06.14.13 11.45	U	1
Beta-BHC	319-85-7	**0.414**	0.0500	0.00150	ug/L	06.14.13 11.45		1
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	06.14.13 11.45	U	1
Delta-BHC	319-86-8	U	0.0500	0.000900	ug/L	06.14.13 11.45	U	1
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	06.14.13 11.45	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	06.14.13 11.45	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	06.14.13 11.45	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	06.14.13 11.45	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	06.14.13 11.45	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	06.14.13 11.45	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	06.14.13 11.45	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.000700	ug/L	06.14.13 11.45	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	06.14.13 11.45	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	06.14.13 11.45	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	06.14.13 11.45	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	06.14.13 11.45	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	06.14.13 11.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	68	%	27-135	06.14.13 11.45	
Decachlorobiphenyl	2051-24-3	95	%	26-154	06.14.13 11.45	

Certificate of Analytical Results 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-22** Matrix: Water Date Received:06.07.13 12.19
Lab Sample Id: 464706-022 Date Collected: 06.06.13 12.06

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 916087 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	06.12.13 21.46		1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: BLF % Moisture:
Analyst: BLF Date Prep: 06.07.13 13.10
Seq Number: 915732

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.42**	5.00	0.104	mg/L	06.07.13 16.22		1
Nitrate as N	14797-55-8	**3.02**	1.00	0.0240	mg/L	06.07.13 16.22		1
Sulfate	14808-79-8	**331**	50.0	1.68	mg/L	06.10.13 15.30	D	10

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 06.10.13 08.46
Seq Number: 916179

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.583**	0.0500	0.000900	mg/L	06.12.13 22.40		1

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175
Tech: MWE % Moisture:
Analyst: MWE
Seq Number: 915894

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8	U	0.00200	0.00187	mg/L	06.11.13 13.38	U	1
Ethane	74-84-0	U	0.00200	0.00203	mg/L	06.11.13 13.38	U	1
Ethene	74-85-1	U	0.0020	0.0020	mg/L	06.11.13 13.38	U	1

Certificate of Analytical Results 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **MW-22** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-022 Date Collected: 06.06.13 12.06

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 14.30

Seq Number: 916203

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00210	ug/L	06.13.13 05.46	U	1
4,4-DDE	72-55-9	U	0.100	0.00320	ug/L	06.13.13 05.46	U	1
4,4-DDT	50-29-3	U	0.100	0.00210	ug/L	06.13.13 05.46	U	1
Aldrin	309-00-2	U	0.0500	0.00200	ug/L	06.13.13 05.46	U	1
Alpha-BHC	319-84-6	**0.833**	0.0500	0.00170	ug/L	06.13.13 05.46		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00110	ug/L	06.13.13 05.46	U	1
Beta-BHC	319-85-7	**31.7**	5.00	0.150	ug/L	06.14.13 17.45	D	100
Chlordane	12789-03-6	U	0.500	0.0322	ug/L	06.13.13 05.46	U	1
Delta-BHC	319-86-8	**1.79**	0.500	0.00900	ug/L	06.14.13 17.27	D	10
Dieldrin	60-57-1	U	0.100	0.00100	ug/L	06.13.13 05.46	U	1
Endosulfan I	959-98-8	U	0.0500	0.00200	ug/L	06.13.13 05.46	U	1
Endosulfan II	33213-65-9	U	0.100	0.00190	ug/L	06.13.13 05.46	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00220	ug/L	06.13.13 05.46	U	1
Endrin	72-20-8	U	0.100	0.00140	ug/L	06.13.13 05.46	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00220	ug/L	06.13.13 05.46	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00130	ug/L	06.13.13 05.46	U	1
Gamma-BHC (Lindane)	58-89-9	**0.446**	0.0500	0.000700	ug/L	06.13.13 05.46		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00150	ug/L	06.13.13 05.46	U	1
Heptachlor	76-44-8	U	0.0500	0.00190	ug/L	06.13.13 05.46	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.000700	ug/L	06.13.13 05.46	U	1
Methoxychlor	72-43-5	U	0.500	0.0100	ug/L	06.13.13 05.46	U	1
Toxaphene	8001-35-2	U	2.50	0.215	ug/L	06.13.13 05.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	68	%	27-135	06.13.13 05.46	
Decachlorobiphenyl	2051-24-3	111	%	26-154	06.13.13 05.46	

Certificate of Analytical Results 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **EQUIPMENT BLANK** Matrix: Water Date Received:06.07.13 12.19
Lab Sample Id: 464706-024 Date Collected: 06.05.13 18.37

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 916087 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**0.653**	1.00	0.548	mg/L	06.12.13 22.05	J	1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: BLF % Moisture:
Analyst: BLF Date Prep: 06.07.13 13.10
Seq Number: 915732

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	U	5.00	0.104	mg/L	06.07.13 15.30	U	1
Nitrate as N	14797-55-8	U	1.00	0.0240	mg/L	06.07.13 15.30	U	1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: BLF % Moisture:
Analyst: BLF Date Prep: 06.10.13 09.40
Seq Number: 915844

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Sulfate	14808-79-8	U	5.00	0.168	mg/L	06.10.13 16.22	U	1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: ABA % Moisture:
Analyst: 4150 Date Prep: 06.10.13 08.46
Seq Number: 916179

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	U	0.0500	0.000900	mg/L	06.12.13 22.41	U	1

Certificate of Analytical Results 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

Sample Id: **EQUIPMENT BLANK** Matrix: Water Date Received:06.07.13 12.19

Lab Sample Id: 464706-024 Date Collected: 06.05.13 18.37

Analytical Method: Methane, Ethane, Ethene by Mod. RSK 175

Tech: MWE % Moisture:

Analyst: MWE

Seq Number: 915888

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
Methane	74-82-8		U	0.00200	0.00187	mg/L	06.10.13 15.37	U	1
Ethane	74-84-0		U	0.00200	0.00203	mg/L	06.10.13 15.37	U	1
Ethene	74-85-1		U	0.0020	0.0020	mg/L	06.10.13 15.37	U	1

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

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.10.13 14.30

Seq Number: 916203

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8		U	0.100	0.00210	ug/L	06.13.13 06.03	U	1
4,4-DDE	72-55-9		U	0.100	0.00320	ug/L	06.13.13 06.03	U	1
4,4-DDT	50-29-3		U	0.100	0.00210	ug/L	06.13.13 06.03	U	1
Aldrin	309-00-2		U	0.0500	0.00200	ug/L	06.13.13 06.03	U	1
Alpha-BHC	319-84-6		U	0.0500	0.00170	ug/L	06.13.13 06.03	U	1
Alpha-Chlordane	5103-71-9		U	0.0500	0.00110	ug/L	06.13.13 06.03	U	1
Beta-BHC	319-85-7		U	0.0500	0.00150	ug/L	06.13.13 06.03	U	1
Chlordane	12789-03-6		U	0.500	0.0322	ug/L	06.13.13 06.03	U	1
Delta-BHC	319-86-8		U	0.0500	0.000900	ug/L	06.13.13 06.03	U	1
Dieldrin	60-57-1		U	0.100	0.00100	ug/L	06.13.13 06.03	U	1
Endosulfan I	959-98-8		U	0.0500	0.00200	ug/L	06.13.13 06.03	U	1
Endosulfan II	33213-65-9		U	0.100	0.00190	ug/L	06.13.13 06.03	U	1
Endosulfan Sulfate	1031-07-8		U	0.100	0.00220	ug/L	06.13.13 06.03	U	1
Endrin	72-20-8		U	0.100	0.00140	ug/L	06.13.13 06.03	U	1
Endrin Aldehyde	7421-93-4		U	0.100	0.00220	ug/L	06.13.13 06.03	U	1
Endrin Ketone	53494-70-5		U	0.100	0.00130	ug/L	06.13.13 06.03	U	1
Gamma-BHC (Lindane)	58-89-9		U	0.0500	0.000700	ug/L	06.13.13 06.03	U	1
Gamma-Chlordane	5103-74-2		U	0.0500	0.00150	ug/L	06.13.13 06.03	U	1
Heptachlor	76-44-8		U	0.0500	0.00190	ug/L	06.13.13 06.03	U	1
Heptachlor Epoxide	1024-57-3		U	0.0500	0.000700	ug/L	06.13.13 06.03	U	1
Methoxychlor	72-43-5		U	0.500	0.0100	ug/L	06.13.13 06.03	U	1
Toxaphene	8001-35-2		U	2.50	0.215	ug/L	06.13.13 06.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	55	%	27-135	06.13.13 06.03	
Decachlorobiphenyl	2051-24-3	102	%	26-154	06.13.13 06.03	

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 quantiation 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, GA

Analytical Method: **Total Organic Carbon by SW-846 9060**

Seq Number: 915948 Matrix: Water

MB Sample Id: 915948-1-BLK LCS Sample Id: 915948-1-BKS LCSD Sample Id: 915948-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Organic Carbon	<0.548	15.0	15.7	105	15.7	105	80-120	0	20	mg/L	06.11.13 17:37	

Analytical Method: **Total Organic Carbon by SW-846 9060**

Seq Number: 916087 Matrix: Water

MB Sample Id: 916087-1-BLK LCS Sample Id: 916087-1-BKS LCSD Sample Id: 916087-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Organic Carbon	<0.548	15.0	15.4	103	15.7	105	80-120	2	20	mg/L	06.12.13 20:11	

Analytical Method: **Total Organic Carbon by SW-846 9060**

Seq Number: 915948 Matrix: Water

Parent Sample Id: 464706-002 MS Sample Id: 464706-002 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Total Organic Carbon	1.67	15.0	17.2	104	80-120	mg/L	06.11.13 18:42	

Analytical Method: **Total Organic Carbon by SW-846 9060**

Seq Number: 915948 Matrix: Water

Parent Sample Id: 464706-021 MS Sample Id: 464706-021 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Total Organic Carbon	1.66	15.0	17.6	106	80-120	mg/L	06.11.13 02:38	

Analytical Method: **Total Organic Carbon by SW-846 9060**

Seq Number: 916087 Matrix: Water

Parent Sample Id: 464706-001 MS Sample Id: 464706-001 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Total Organic Carbon	1.85	15.0	17.2	102	80-120	mg/L	06.12.13 21:20	

QC Summary 464706

Environmental International Corporation

GPA Bainbridge, GA

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 915732 Matrix: Water Date Prep: 06.07.13
MB Sample Id: 639388-1-BLK LCS Sample Id: 639388-1-BKS LCSD Sample Id: 639388-1-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	9.79	98	9.94	99	80-120	2	15	mg/L	06.07.13 14:02	
Nitrate as N	<0.0240	1.00	0.991	99	0.989	99	80-120	0	15	mg/L	06.07.13 14:02	
Sulfate	<0.168	10.0	10.0	100	10.2	102	80-120	2	15	mg/L	06.07.13 14:02	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 915844 Matrix: Water Date Prep: 06.10.13
MB Sample Id: 639451-1-BLK LCS Sample Id: 639451-1-BKS LCSD Sample Id: 639451-1-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	9.78	98	9.71	97	80-120	1	15	mg/L	06.10.13 11:42	
Nitrate as N	<0.0240	1.00	0.913	91	0.916	92	80-120	0	15	mg/L	06.10.13 11:42	
Sulfate	<0.168	10.0	9.59	96	9.70	97	80-120	1	15	mg/L	06.10.13 11:42	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 915732 Matrix: Water Date Prep: 06.07.13
Parent Sample Id: 464706-017 MD Sample Id: 464706-017 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	94.0	95.1	1	15	mg/L	06.07.13 17:50	
Nitrate as N	194	194	0	15	mg/L	06.07.13 17:50	
Sulfate	178	177	1	15	mg/L	06.07.13 17:50	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 915732 Matrix: Water Date Prep: 06.07.13
Parent Sample Id: 464706-017 MS Sample Id: 464706-017 S MSD Sample Id: 464706-017 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	94.0	10.0	102	80	110	160	80-120	8	15	mg/L	06.07.13 18:07	X
Nitrate as N	194	1.00	187	0	201	700	80-120	7	15	mg/L	06.07.13 18:07	X
Sulfate	178	10.0	183	50	200	220	80-120	9	15	mg/L	06.07.13 18:07	X

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Seq Number: 916169 Matrix: Water Date Prep: 06.10.13
MB Sample Id: 639376-1-BLK LCS Sample Id: 639376-1-BKS LCSD Sample Id: 639376-1-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	1.01	101	1.01	101	80-120	0	20	mg/L	06.12.13 21:08	

QC Summary 464706

Environmental International Corporation

GPA Bainbridge, GA

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Seq Number: 916179 Matrix: Water Date Prep: 06.10.13
MB Sample Id: 639377-1-BLK LCS Sample Id: 639377-1-BKS LCSD Sample Id: 639377-1-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	1.08	108	1.02	102	80-120	6	20	mg/L	06.12.13 22:13	

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Seq Number: 916169 Matrix: Water Date Prep: 06.10.13
Parent Sample Id: 464611-001 MD Sample Id: 464611-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Manganese	0.864	0.882	2	20	mg/L	06.12.13 21:13	

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Seq Number: 916179 Matrix: Water Date Prep: 06.10.13
Parent Sample Id: 464706-016 MD Sample Id: 464706-016 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Manganese	0.211	0.214	1	20	mg/L	06.12.13 22:18	

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Seq Number: 916169 Matrix: Water Date Prep: 06.10.13
Parent Sample Id: 464611-001 MS Sample Id: 464611-001 S MSD Sample Id: 464611-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Manganese	0.864	1.00	1.95	109	1.82	96	80-120	7	20	mg/L	06.12.13 21:20	

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Seq Number: 916179 Matrix: Water Date Prep: 06.10.13
Parent Sample Id: 464706-016 MS Sample Id: 464706-016 S MSD Sample Id: 464706-016 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Manganese	0.211	1.00	1.14	93	1.13	92	80-120	1	20	mg/L	06.12.13 22:20	

Environmental International Corporation

GPA Bainbridge, GA

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**

Seq Number: 915888 Matrix: Water

MB Sample Id: 915888-1-BLK LCS Sample Id: 915888-1-BKS LCSD Sample Id: 915888-1-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	0.0919	104	0.0949	107	41-112	3	20	mg/L	06.10.13 15:09	
Ethane	<0.00203	0.181	0.139	77	0.142	78	42-107	2	20	mg/L	06.10.13 15:09	
Ethene	<0.0020	0.13	0.079	61	0.080	62	31-107	1	20	mg/L	06.10.13 15:09	

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**

Seq Number: 915894 Matrix: Water

MB Sample Id: 915894-1-BLK LCS Sample Id: 915894-1-BKS LCSD Sample Id: 915894-1-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	0.0952	107	0.0963	109	41-112	1	20	mg/L	06.11.13 11:22	
Ethane	<0.00203	0.181	0.149	82	0.141	78	42-107	6	20	mg/L	06.11.13 11:22	
Ethene	<0.0020	0.13	0.080	62	0.067	52	31-107	18	20	mg/L	06.11.13 11:22	

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**

Seq Number: 915888 Matrix: Water

Parent Sample Id: 464706-001 MS Sample Id: 464706-001 S MSD Sample Id: 464706-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Methane	<0.00187	0.0886	0.0739	83	0.0723	82	41-112	2	20	mg/L	06.10.13 16:13	
Ethane	<0.00203	0.181	0.103	57	0.107	59	42-107	4	20	mg/L	06.10.13 16:13	
Ethene	<0.0020	0.13	0.054	42	0.053	41	31-107	2	20	mg/L	06.10.13 16:13	

Analytical Method: **Methane, Ethane, Ethene by Mod. RSK 175**

Seq Number: 915894 Matrix: Water

Parent Sample Id: 464706-012 MS Sample Id: 464706-012 S MSD Sample Id: 464706-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Methane	<0.00187	0.0886	0.0740	84	0.0658	74	41-112	12	20	mg/L	06.11.13 14:00	
Ethane	<0.00203	0.181	0.108	60	0.0927	51	42-107	15	20	mg/L	06.11.13 14:00	
Ethene	<0.0020	0.13	0.054	42	0.054	42	31-107	0	20	mg/L	06.11.13 14:00	

QC Summary 464706

Environmental International Corporation

GPA Bainbridge, GA

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

Seq Number: 916200 Matrix: Water Date Prep: 06.10.13

MB Sample Id: 639517-1-BLK LCS Sample Id: 639517-1-BKS LCSD Sample Id: 639517-1-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	<0.00210	0.500	0.544	109	0.549	110	20-152	1	30	ug/L	06.12.13 20:58	
4,4-DDE	<0.00320	0.500	0.468	94	0.470	94	18-147	0	30	ug/L	06.12.13 20:58	
4,4-DDT	<0.00210	0.500	0.274	55	0.272	54	18-164	1	30	ug/L	06.12.13 20:58	
Aldrin	<0.00200	0.500	0.419	84	0.413	83	11-131	1	30	ug/L	06.12.13 20:58	
Alpha-BHC	<0.00170	0.500	0.429	86	0.402	80	24-141	6	30	ug/L	06.12.13 20:58	
Alpha-Chlordane	<0.00110	0.500	0.423	85	0.416	83	37-135	2	30	ug/L	06.12.13 20:58	
Beta-BHC	<0.00150	0.500	0.498	100	0.512	102	12-162	3	30	ug/L	06.12.13 20:58	
Delta-BHC	<0.000900	0.500	0.373	75	0.378	76	19-147	1	30	ug/L	06.12.13 20:58	
Dieldrin	<0.00100	0.500	0.477	95	0.467	93	35-140	2	30	ug/L	06.12.13 20:58	
Endosulfan I	<0.00200	0.500	0.423	85	0.416	83	20-135	2	30	ug/L	06.12.13 20:58	
Endosulfan II	<0.00190	0.500	0.440	88	0.438	88	34-122	0	30	ug/L	06.12.13 20:58	
Endosulfan Sulfate	<0.00220	0.500	0.280	56	0.274	55	41-145	2	30	ug/L	06.12.13 20:58	
Endrin	<0.00140	0.500	0.397	79	0.385	77	36-158	3	30	ug/L	06.12.13 20:58	
Endrin Aldehyde	<0.00220	0.500	0.408	82	0.414	83	28-135	3	30	ug/L	06.12.13 20:58	
Endrin Ketone	<0.00130	0.500	0.285	57	0.317	63	42-134	21	30	ug/L	06.12.13 20:58	
Gamma-BHC (Lindane)	<0.000700	0.500	0.408	82	0.395	79	23-143	3	30	ug/L	06.12.13 20:58	
Gamma-Chlordane	<0.00150	0.500	0.452	90	0.450	90	25-112	0	30	ug/L	06.12.13 20:58	
Heptachlor	<0.00190	0.500	0.252	50	0.216	43	20-142	7	30	ug/L	06.12.13 20:58	
Heptachlor Epoxide	<0.000700	0.500	0.454	91	0.444	89	32-134	2	30	ug/L	06.12.13 20:58	
Methoxychlor	<0.0100	0.500	0.304	61	0.311	62	36-169	2	30	ug/L	06.12.13 20:58	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	96		81		78		27-135	%	06.12.13 20:58
Decachlorobiphenyl	107		103		108		26-154	%	06.12.13 20:58

QC Summary 464706

Environmental International Corporation

GPA Bainbridge, GA

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

Seq Number: 916203 Matrix: Water Date Prep: 06.10.13

MB Sample Id: 639521-1-BLK LCS Sample Id: 639521-1-BKS LCSD Sample Id: 639521-1-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	<0.00210	0.500	0.540	108	0.513	103	20-152	5	30	ug/L	06.13.13 04:53	
4,4-DDE	<0.00320	0.500	0.509	102	0.500	100	18-147	2	30	ug/L	06.13.13 04:53	
4,4-DDT	<0.00210	0.500	0.306	61	0.284	57	18-164	1	30	ug/L	06.13.13 04:53	
Aldrin	<0.00200	0.500	0.432	86	0.436	87	11-131	1	30	ug/L	06.13.13 04:53	
Alpha-BHC	<0.00170	0.500	0.445	89	0.415	83	24-141	7	30	ug/L	06.13.13 04:53	
Alpha-Chlordane	<0.00110	0.500	0.466	93	0.453	91	37-135	3	30	ug/L	06.13.13 04:53	
Beta-BHC	<0.00150	0.500	0.514	103	0.525	105	12-162	2	30	ug/L	06.13.13 04:53	
Delta-BHC	<0.000900	0.500	0.390	78	0.430	86	19-147	10	30	ug/L	06.13.13 04:53	
Dieldrin	<0.00100	0.500	0.530	106	0.529	106	35-140	0	30	ug/L	06.13.13 04:53	
Endosulfan I	<0.00200	0.500	0.590	118	0.576	115	20-135	2	30	ug/L	06.13.13 04:53	
Endosulfan II	<0.00190	0.500	0.519	104	0.464	93	34-122	11	30	ug/L	06.13.13 04:53	
Endosulfan Sulfate	<0.00220	0.500	0.332	66	0.287	57	41-145	15	30	ug/L	06.13.13 04:53	
Endrin	<0.00140	0.500	0.387	77	0.339	68	36-158	13	30	ug/L	06.13.13 04:53	
Endrin Aldehyde	<0.00220	0.500	0.493	99	0.467	93	28-135	5	30	ug/L	06.13.13 04:53	
Endrin Ketone	<0.00130	0.500	0.308	62	0.279	56	42-134	6	30	ug/L	06.13.13 04:53	
Gamma-BHC (Lindane)	<0.000700	0.500	0.420	84	0.412	82	23-143	2	30	ug/L	06.13.13 04:53	
Gamma-Chlordane	<0.00150	0.500	0.502	100	0.489	98	25-112	3	30	ug/L	06.13.13 04:53	
Heptachlor	<0.00190	0.500	0.264	53	0.272	54	20-142	13	30	ug/L	06.13.13 04:53	
Heptachlor Epoxide	<0.000700	0.500	0.603	121	0.530	106	32-134	13	30	ug/L	06.13.13 04:53	
Methoxychlor	<0.0100	0.500	0.375	75	0.319	64	36-169	16	30	ug/L	06.13.13 04:53	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	101		85		82		27-135	%	06.13.13 04:53
Decachlorobiphenyl	104		100		106		26-154	%	06.13.13 04:53

QC Summary 464706

Environmental International Corporation

GPA Bainbridge, GA

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

Seq Number: 916200 Matrix: Water Date Prep: 06.10.13

Parent Sample Id: 464706-018 MS Sample Id: 464706-018 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
4,4-DDD	<0.00210	0.500	0.570	114	20-152	ug/L	06.13.13 04:18	
4,4-DDE	<0.00320	0.500	0.650	130	18-147	ug/L	06.13.13 04:18	
4,4-DDT	<0.00210	0.500	0.391	78	18-164	ug/L	06.13.13 04:18	
Aldrin	<0.00200	0.500	0.449	90	11-131	ug/L	06.13.13 04:18	
Alpha-BHC	<0.00170	0.500	0.491	98	24-141	ug/L	06.13.13 04:18	
Alpha-Chlordane	<0.00110	0.500	0.627	125	37-135	ug/L	06.13.13 04:18	
Beta-BHC	<0.00150	0.500	0.504	101	12-162	ug/L	06.13.13 04:18	
Delta-BHC	<0.000900	0.500	0.393	79	19-147	ug/L	06.13.13 04:18	
Dieldrin	<0.00100	0.500	0.646	129	35-140	ug/L	06.13.13 04:18	
Endosulfan I	<0.00200	0.500	0.654	131	20-135	ug/L	06.13.13 04:18	
Endosulfan II	<0.00190	0.500	0.452	90	34-122	ug/L	06.13.13 04:18	
Endosulfan Sulfate	<0.00220	0.500	0.301	60	41-145	ug/L	06.13.13 04:18	
Endrin	<0.00140	0.500	0.449	90	36-158	ug/L	06.13.13 04:18	
Endrin Aldehyde	<0.00220	0.500	0.498	100	28-135	ug/L	06.13.13 04:18	
Endrin Ketone	<0.00130	0.500	0.326	65	42-134	ug/L	06.13.13 04:18	
Gamma-BHC (Lindane)	<0.000700	0.500	0.445	89	23-143	ug/L	06.13.13 04:18	
Gamma-Chlordane	<0.00150	0.500	0.962	192	25-112	ug/L	06.13.13 04:18	X
Heptachlor	<0.00190	0.500	0.207	41	20-142	ug/L	06.13.13 04:18	
Heptachlor Epoxide	<0.000700	0.500	1.68	336	32-134	ug/L	06.13.13 04:18	X
Methoxychlor	<0.0100	0.500	0.426	85	36-169	ug/L	06.13.13 04:18	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	95		27-135	%	06.13.13 04:18
Decachlorobiphenyl	102		26-154	%	06.13.13 04:18

QC Summary 464706

Environmental International Corporation

GPA Bainbridge, GA

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

Seq Number: 916203 Matrix: Water Date Prep: 06.10.13

Parent Sample Id: 464706-022 MS Sample Id: 464706-022 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
4,4-DDD	<0.00210	0.500	0.633	127	20-152	ug/L	06.13.13 05:28	
4,4-DDE	<0.00320	0.500	1.64	328	18-147	ug/L	06.13.13 05:28	X
4,4-DDT	<0.00210	0.500	0.499	100	18-164	ug/L	06.13.13 05:28	
Aldrin	<0.00200	0.500	0.346	69	11-131	ug/L	06.13.13 05:28	
Alpha-BHC	1.01	0.500	1.02	2	24-141	ug/L	06.13.13 05:28	X
Alpha-Chlordane	<0.00110	0.500	0.552	110	37-135	ug/L	06.13.13 05:28	
Beta-BHC	32.9	0.500	31.2	0	12-162	ug/L	06.13.13 05:28	X
Delta-BHC	2.55	0.500	2.82	54	19-147	ug/L	06.13.13 05:28	
Dieldrin	<0.00100	0.500	0.601	120	35-140	ug/L	06.13.13 05:28	
Endosulfan I	<0.00200	0.500	0.501	100	20-135	ug/L	06.13.13 05:28	
Endosulfan II	<0.00190	0.500	0.598	120	34-122	ug/L	06.13.13 05:28	
Endosulfan Sulfate	<0.00220	0.500	0.483	97	41-145	ug/L	06.13.13 05:28	
Endrin	<0.00140	0.500	0.626	125	36-158	ug/L	06.13.13 05:28	
Endrin Aldehyde	<0.00220	0.500	0.645	129	28-135	ug/L	06.13.13 05:28	
Endrin Ketone	<0.00130	0.500	0.415	83	42-134	ug/L	06.13.13 05:28	
Gamma-BHC (Lindane)	0.446	0.500	0.725	56	23-143	ug/L	06.13.13 05:28	
Gamma-Chlordane	<0.00150	0.500	0.552	110	25-112	ug/L	06.13.13 05:28	
Heptachlor	<0.00190	0.500	0.959	192	20-142	ug/L	06.13.13 05:28	X
Heptachlor Epoxide	<0.000700	0.500	0.560	112	32-134	ug/L	06.13.13 05:28	
Methoxychlor	<0.0100	0.500	0.502	100	36-169	ug/L	06.13.13 05:28	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	46		27-135	%	06.13.13 05:28
Decachlorobiphenyl	103		26-154	%	06.13.13 05:28

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

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 262792 Page 1 of 3

Company-City EIC	**Phone** 770-772-7100	**Lab Only:** W 0# 464706	
Proj Name-Location GPA Bainbridge	☐ Previously done at XENCO **Project ID**	**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@ecusa.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 Alan Sanders Signature			

	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	6010C Manganese	9060A TOC	9056A Anions(Chloride,Nitrate)	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-1	6/4/2013	14:18		W		✓	4	V	V	V										✓	✓	✓		✓																	1
2	MW-1A	6/4/2013	12:06		W		✓	4	V	V	V										✓	✓	✓		✓																	2
3	MW-2	6/3/2013	15:14		W		✓	4	V	V	V										✓	✓	✓		✓																	3
4	MW-4U	6/4/2013	15:35		W		✓	4	V	V	V										✓	✓	✓		✓																	4
5	MW-5A	6/4/2013	18:28		W		✓	4	V	V	V										✓	✓	✓		✓																	5
6	MW-5D	6/4/2013	17:31		W		✓	4	V	V	V										✓	✓	✓		✓																	6
7	MW-6	6/5/2013	17:04		W		✓	5	V	V	V										✓	✓	✓	✓	✓																	7
8	MW-7	6/3/2013	16:36		W		✓	4	V	V	V										✓	✓	✓		✓																	8
9	MW-8	6/5/2013	9:42		W		✓	4	V	V	V										✓	✓	✓		✓																	9
10	MW-10	6/5/2013	18:05		W		✓	5	V	V	V										✓	✓	✓	✓	✓																	10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time	Total Containers per COC:	Cooler Temp:
1) A.S. Alan Sanders	6/18/13 12:19 (Fax)	2) Dawn Nigal DD	6/07/13 12:19		
3)		4)			
5)		6)			

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.

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

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☐ South Carolina 803-543-8099 ☐ Other

Serial #: 262793 Page 2 of 3

Company-City: EIC	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: Alan Sanders Signature	

Lab Only: WO# 464708

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	6010C Manganese	9060A TOC	9056A Calcium, Nitrate, Sulfate	RSK-175 Hydrocarbons	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-DUPLICATE	6/5/2013	18:13		W		✓	5	V	V	V										✓	✓	✓	✓	✓				
2	MW-11	6/4/2013	10:22		W		✓	4	V	V	V										✓	✓	✓		✓				
3	MW-12	6/5/2013	8:15		W		✓	4	V	V	V										✓	✓	✓		✓				
4	MW-14	6/5/2013	15:53		W		✓	4	V	V	V										✓	✓	✓		✓				
5	MW-16	6/5/2013	12:01		W		✓	4	V	V	V										✓	✓	✓		✓				
6	MW-17	6/5/2013	10:43		W		✓	4	V	V	V										✓	✓	✓		✓				
7	MW-18	6/6/2013	16:17		W		✓	5	V	V	V										✓	✓	✓	✓	✓				
8	MW-19	6/6/2013	15:22		W		✓	5	V	V	V										✓	✓	✓	✓	✓				
9	MW-19-MATRIXSPIKE	6/6/2013	15:30		W		✓	1	1L	A	NA										✓								
10	MW-20	6/6/2013	10:25		W		✓	5	V	V	V										✓	✓	✓	✓	✓				

3°C

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) Alan Sanders AS	6/7/13 12:19	2) Dijana Pejak DP	6/7/13 12:19
3)		4)	
5)		6)	

Total Containers per COC: Cooler Temp:

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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☐ South Carolina 803-543-8099 ☐ Other

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 262854 Page 3 of 3

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

Lab Only: CLIENT # 409706

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: Alan Sanders Signature

| | 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 | 6010C Manganese | 9060A TOC | 9056A Chloride, Nitrate, & Sulfate | RSK-175 Hydrogases | | |

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Florida Testing Services, LLC

Client: Environmental International Corporation

Date/ Time Received: 06/07/2013 12:19:00 PM

Work Order #: 464706

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)?	3
#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**
#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: 06/08/2013

Checklist reviewed by: Dijana Piljak Date: 06/10/2013

APPENDIX F

ENVIRONMENTAL INTERNATIONAL CORPORATION
161 Kimball Bridge Road, Suite 100, Alpharetta, GA 30009
Phone: 770-772-7100, Fax: 770-772-0555
Website:www.eicusa.com

October 28, 2013

Ms. Natalie Dawn
Georgia Ports Authority
PO Box 2406
Savannah, Georgia 31402

Re: Report on Third Quarter 2013 VIRP Quarterly MNA Groundwater Monitoring Event, GPA Bainbridge Terminal, HSI Site No. 10071, Bainbridge, Georgia

File: 400007 - 4.5

Dear Ms. Dawn:

On November 2, 2012, the Georgia Environmental Protection Division (EPD) approved a "Voluntary Investigation and Remediation Plan (VIRP)" that was prepared by Environmental International Corporation (EIC) for the above referenced site on behalf of Georgia Ports Authority (GPA). During the first quarter of 2013, GPA retained EIC to implement the scope of work defined in the VIRP. The plan specified a groundwater monitoring program to define the vertical and horizontal extent of constituents of concern (COC) and to determine the potential for Monitored Natural Attenuation (MNA) of the COCs. During the first year, the groundwater monitoring program entails quarterly groundwater monitoring events. Subsequently, groundwater monitoring will be performed on a semi-annual basis. This report presents the results of the third groundwater monitoring event conducted during the third quarter of 2013.

The VIRP program entails collecting groundwater samples for analysis from monitoring wells at the site as well as at offsite locations hydraulically up-gradient and side-gradient of the site. During this event, EIC collected 23 groundwater samples from a total of 23 accessible monitoring wells. Additionally, a primitive road to access monitoring well MW-3 (and also wells MW-1, MW-1A, and MW-4U) was installed by GPA. Also, EIC redeveloped and sampled MW-3 for the first time since the initiation of the VIRP.

The analytical data from the third quarterly groundwater monitoring event of 2013 was compared with that of the first and second quarterly groundwater monitoring events of 2013 (EIC, 2013b; EIC, 2013c) to track the trends of the prevailing extent of COCs. Such analysis is essential in establishing trends to verify whether natural attenuation of COCs is in progress and to determine if changes to the remedial strategy are required. The trend analysis is also useful in verifying if remedial objectives meet Site Specific Type 4 Risk Reduction Standards (RRS) established in the VIRP, and assists in delineating the horizontal extent of COCs to meet the Type 1 RRS, also established in the VIRP. Trends in COCs degradation rates and plume stability will be determined

from the data analysis collected during this monitoring event and subsequent quarterly reports.

1.0 PROJECT OBJECTIVES

In the VIRP, EIC proposed to collect groundwater samples from all accessible monitoring wells illustrated in Figure 1. This current groundwater monitoring program has established a new baseline. Therefore, the data from multiple groundwater monitoring events will be compared by spatial and temporal analysis. This will assist GPA in meeting the following goals set forth in the VIRP. These include:

- Perform quarterly site-wide groundwater monitoring events for COC analysis from wells located both within the pesticides footprint as well as outside this footprint followed by semi-annual groundwater monitoring events, to establish a baseline horizontal and vertical extent of the prevailing contaminant plume.
- Develop monitoring well MW-3 so that it can be gauged and sampled in order to more thoroughly delineate the horizontal extents of the prevailing contaminant plume.
- Determine if the prevailing groundwater COCs meet or are trending towards meeting the established RRS by periodically performing a two-dimensional concentration/time analysis.
- Review plume stability.
- Track MNA by monitoring the groundwater contaminants within the existing plume.
- Select a fate and transport model to evaluate the effectiveness of the MNA program in compliance with site-specific RRS.
- Based on the observed trends, make further decisions on whether to continue with natural attenuation to reach remedial end points or to evaluate other enhancement measures.

The following sections outline the tasks performed by EIC to meet these objectives.

2.0 GROUNDWATER MONITORING FIELD PROGRAM

To meet the project objectives, EIC attempted to conduct groundwater monitoring of all accessible monitoring wells within and outside the known contaminant plumes. These include wells MW-1, MW-1A, MW-2, MW-3, MW-4U, MW-5A, MW-5D, MW-6, MW-7, MW-8, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, and MW-22.

During the period from September 3, 2013 through September 5, 2013, EIC collected groundwater samples from a total of 23 wells and submitted the samples for laboratory analysis. The following sections describe EIC's groundwater monitoring technical approach.

2.1 GROUNDWATER MONITORING PROTOCOL

The groundwater monitoring program was conducted in accordance with the current U.S. EPA groundwater monitoring procedure "Field Branches Quality System and Technical Procedures" (FBQSTP) per the 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).

2.2 SITE ACCESS

Prior to EIC's site visit, EIC coordinated with the GPA to collect groundwater samples from on-site wells and coordinated with GPA in gaining access from Agrium to collect groundwater samples from off-site wells, MW-15, MW-16, MW-18, MW-19, MW-20, and MW-21. EIC also contacted the Georgia Department of Transportation (DOT) in obtaining permission to access monitoring well MW-22, located on the north right-of-way of Georgia State Highway 253/Spring Creek Road.

2.3 FIELD PROCEDURES

2.3.1 Groundwater Gauging

EIC gauged each well with a pressure transducer to determine the depth to groundwater and utilized the top-of-casing (TOC) elevations to determine the groundwater elevation. The initial gauging data is tabulated in Table 1. At each well, once samples had been collected, EIC gauged the depth to bottom (DTB) utilizing the pressure transducer to for a direct field measurement of well depths. This DTB data will be utilized by EIC to determine for each well: the accuracy of the total depth (TD) depicted in historical well construction logs, how many feet of silt has accumulated, if the well needs to be redeveloped, and the proper intake depth for sample tubing.

2.3.2 Groundwater Sampling

EIC utilized a peristaltic pump for purging and sampling. Disposable 1/4-inch inner diameter 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. Based on both the depth to groundwater (determined during gauging), the field measured difference between the height of the well TOC relative to the ground surface (stick-up height), and the depth to the screened interval of each well (based on historical well logs), EIC determined the depth to set the Teflon-lined tubing intake. 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 to the depth of the 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 3 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 A). Groundwater quality field parameters after stabilization and prior to sample collection are summarized in Table 2. It should be noted that at 10 of the wells, turbidity levels of 10 NTUs or lower could not be reached after reasonable attempts were made to achieve this goal prior to sampling. EIC also recorded field activities in a field book.

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 containers ("coolers") 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. The 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, and total organic carbon via EPA Method 9060A. The laboratory report is included as Attachment B.

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 from September 3, 2013 through September 4, 2013. The laboratory picked up the remaining samples, for all the aforementioned analysis, from EIC headquarters on September 6, 2013.

All investigation derived waste (IDW) purge water, except that from MW-3, was containerized in the 55-gallon drum placed in the vicinity of the southeast corner of the Rock Salt Warehouse (RSW) during the second quarterly sampling event of June, 2013. At the end of sampling activities, the 55-gallon drum was re-sealed by EIC.

2.3.3 Access Road to MW-3

Per EIC's recommendation, on September 3, 2013, GPA's Bainbridge terminal manager constructed a primitive road on GPA property to access monitoring well MW-3, utilizing a top loader, to clear brush and trees and to grade the ground surface. The path of the road lies entirely outside the area of a proposed security fence to be constructed behind and south of the RSW and is accessible by passing the north end of the RSW. The road begins behind the north end of the RSW, passes just north of wells MW-1 and MW-1A and extends westward along the southern side of the site railroad until reaching a point approximately 60 feet south of MW-4U. At this point, the road turns abruptly south towards MW-3 while a spur off of the road extends north to MW-4U. The road then

continues south until reaching MW-3. This road, however, was not of suitable quality for EIC's field vehicle to travel along to reach these wells due to an uneven surface and remaining brush. As such, EIC hand-carried groundwater monitoring equipment to all of these four wells, with the exception of MW-3, which is arduous to reach by foot with groundwater monitoring equipment. As such, GPA assisted EIC in carrying groundwater monitoring equipment to MW-3 utilizing a GPA pickup truck.

2.3.4 Monitoring Well MW-3 Redevelopment

MW-3 was in need of being redeveloped as historical records indicate that it has not been sampled since September of 2001 (EIC, 2012 - Table 2-5) when the well was deemed destroyed or inaccessible. Utilizing previous survey information and visual survey through thick underbrush and wooded area, EIC found the monitoring well in June 2013 but was unable to develop the well due to lack of an access road (EIC, 2013d). Subsequently, GPA cut a path through the forested area to provide access to the well. On September 4, 2013, EIC developed MW-3 utilizing a submersible pump. The pump was raised and lowered through the entire water column ("surged") until the water being purged appeared clear after initially appearing silty and with black particulate matter. Approximately 19 gallons (13 well volumes) were purged from MW-3 during the development process. This process was performed in an attempt to clean the well screen by removing accumulated silt, bacteria, and other deposits.

All purge water was pumped directly into a new 55-gallon drum placed adjacent to MW-3 by GPA. In accordance with *Design and Installation of Monitoring wells* (SESDGUID-101-R1), which can be found in the EPA's Region IV document titled *Field Branches Quality System and Technical Procedures,* EIC allowed the well to stabilize for a minimum of 24 hours before sampling the well. After the well had been developed and sampled, GPA transported the 55-gallon drum to the paved area near the southeastern corner of the RSW. EIC placed a new green non-hazardous label on the drum with the shipper noted as "Georgia Ports Authority", the contents noted as "IDW Well Purge Water", and the accumulation date noted as "9/4/2013".

3.0 QUALITY ASSURANCE AND QUALITY CONTROL

During the groundwater sampling process, EIC collected additional samples for quality assurance and validation of analytical results. One additional sample was collected from each of wells MW-19 and MW-22 for organochlorine pesticides laboratory matrix spike analysis via EPA method 8081B/3660B. Additionally, EIC collected one complete duplicate sample set from well MW-6 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 8-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-6 sample, alpha-, beta-, delta-, and gamma-BHC constituents were all above the detection limits as occurred with the actual MW-6 sample. The duplicate sample results were slightly higher than the original sample results. The difference between the constituent concentrations of the two samples ranged from 0.0007 µg/L for gamma-BHC to 0.18 µg/L for beta-BHC. All of the analytical results for the equipment blank were below the detection limit, with the exception of chloride with a relatively low concentration of 0.174 J µg/L. The source of the chloride constituent was not determined.

To prevent cross-contamination, disposable Teflon-lined tubing and 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.

4.0 DATA EVALUATION

EIC conducted an evaluation of the data compiled from field sampling and laboratory analysis to determine the current groundwater potentiometric surface and the horizontal extent of the prevailing contaminant plume.

4.1 GROUNDWATER POTENTIOMETRIC MAP

From gauging data summarized in Table 1, EIC prepared a groundwater potentiometric surface map (Figure 2). The contour interval used for the groundwater potentiometric surface analysis was the same as that used in the potentiometric maps prepared from the first and second quarter data of 2013. In general, groundwater flows to the southeast towards the Flint River.

The trough feature that had extended from well MW-11 to MW-17 in the June 2013 groundwater potentiometric surface is much less prominent in September 2013 and has bifurcated so that two troughs converge approximately 200 feet north of the office (Figure 2). The eastern fork of this trough configuration extends from an area approximately 150 feet south of MW-7. The change in the trough configuration is partly due to the availability of additional groundwater gauging data from wells MW-3, MW-13, and MW-15. Wells MW-13 and MW-15 were dry in June 2013. Overall, the potentiometric surface in September 2013 was approximately one and a half feet higher than that of June 2013.

4.2 HORIZONTAL EXTENT OF CONTAMINANT PLUMES

Table 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) (consisting of isomers alpha-BHC, beta-BHC, delta-BHC, and gamma-BHC (Lindane)), 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.

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

4.2.1 Alpha-BHC Plume

Referring to Figure 3, the highest concentrations of alpha-BHC occurred at MW-6 (1.51 µg/L), followed sequentially by MW-22 (1.1 µg/L) and MW-10 (0.65 µg/L). As such, the known horizontal distribution of the main alpha-BHC plume primarily extends north to south from the areas of MW-10 and MW-22 to the vicinity of MW-6, and extends west to east between the vicinity of the RSW building in the west to MW-22 to the east. This indicates that the long axis of the primary plume is primarily aligned to the direction of groundwater movement (Figure 2). The concentration of the alpha-BHC constituent has increased at wells MW-6, MW-10, and MW-22 as compared to the concentrations depicted in the alpha-BHC contour map of June 2013 (EIC, 2013c – Figure 3), however, the horizontal extent of the plume has significantly decreased. Referring to Figure 3, it is apparent that the horizontal delineation of the alpha-BHC plume is defined, except to the north beyond Spring Creek Road.

Separate from the primary alpha-BHC plume, there is a relatively small isolated plume surrounding MW-8 that is a relic of the formerly larger alpha-BHC plume documented in June 2013 (EIC, 2013c) which remains after the plume receded up-gradient. Both the occurrence of this isolated plume and the significant reduction of the overall horizontal extent of the plume is a clear indication that the alpha plume is shrinking.

4.2.2 Beta-BHC Plume

Referring to Figure 4, the highest concentrations of beta-BHC occurred at MW-22 (33.7 µg/L), followed sequentially by MW-10 (8.6 µg/L), MW-13 (6.36 µg/L), and MW-20 (2.21 µg/L). 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-6, and extends west to east from near the RSW to approximately 100 feet west of MW-16 and 150 feet west of MW-18. This

indicates that the long axis of the primary plume is primarily aligned with the direction of groundwater movement.

It is interesting to note 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. Additionally, the isolated plume that has been located around MW-13 since March 2013 continues to persist. EIC will further evaluate the source that contributed to this isolated plume.

In comparison to the concentrations depicted in beta-BHC contour map of June 2013, the concentrations of the September 2013 beta-BHC plume have increased slightly in some areas (primarily at MW-10, and MW-22 in the North Parcel and MW-8 in the South Parcel) and decreased in other areas (primarily at MW-5A and MW-5D in the South Parcel). The horizontal extent of the beta-BHC plume above RRS has decreased (EIC, 2013c – Figure 4). Referring to Figure 4, it appears that the horizontal delineation of the beta-BHC plume is relatively complete, except to the north beyond Spring Creek Road and to the south toward the Flint River.

4.2.3 Delta-BHC Plume

Referring to Figure 5, the highest concentrations of delta-BHC occurred at MW-6 (2.33 µg/L), followed sequentially by MW-22 (0.725 µg/L), MW-10 (0.511 µg/L), and MW-8 (0.112 µg/L). As such, the horizontal distribution of the delta-BHC plume 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 near the location of the RSW to approximately 150 west of warehouse 3 (WH3). This indicates that the long axis of the plume is primarily aligned parallel to the direction of groundwater movement.

The southern boundary of the delta-BHC plume remained relatively unchanged as compared to the delta-BHC plume boundaries of June 2013 (EIC, 2013c – Figure 5). However, the east and west boundaries of the plume have shifted inward narrowing the southern end of the plume significantly primarily due to a decrease in the delta-BHC concentrations at wells MW-5A and MW-5D to below detection limits. Referring to Figure 5, it is apparent that the horizontal delineation of the delta-BHC plume is complete, except to the north beyond Spring Creek Road.

4.2.4 Inorganic Parameters

Referring to Table 4, it is apparent that high concentrations of nitrates have been present at several off-site wells located on the Agrium property since March 2013. Referring to Figure 6, during the September 2013 groundwater monitoring event, the highest concentration of nitrate occurred at both wells MW-18 (100 µg/L) and MW-15 (100 µg/L) followed by MW-19 (97.8 µg/L) and MW-7 (13.1 µg/L). Comparing the September 2013 nitrate plume to the March and June 2013 nitrate plumes, it appears that the nitrate concentrations are continually decreasing (EIC, 2013b; EIC, 2013c).

Referring to Figure 7, relatively high concentrations of sulfate remain present on GPA property centered in the vicinity 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 Georgia Gulf Sulfur property in the vicinity of wells MW-10 and MW-22. The highest concentrations of sulfate occurred at MW-6 (589 µg/L), followed sequentially by MW-12 (552 µg/L), MW-8 (428 µg/L), and MW-1A (423 µg/L). As the sulfate plume extends north and up-gradient beyond Spring Creek Road, the source of the sulfate is apparently north of GPA property. Since some of the samples collected for methane analysis resulted in a headspace, EIC notified the analytical laboratory to abandon methane analysis of all samples. During the next sampling event, EIC will ensure that groundwater samples collected for methane analysis will have no head space. 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 VERTICAL EXTENT OF CONTAMINANT PLUMES

There are two deep wells at the site, namely MW-14 and MW-17, as defined by EIC, as they have screened intervals at or deeper than 50 feet below ground surface (bgs). According to historical well construction logs, the depth to the top of the screened interval in monitoring wells MW-14 and MW-17 are from 67 to 72 feet bgs and from 50 to 60 feet bgs, respectively. EIC has therefore utilized the aforementioned wells to monitor vertical migration of COCs.

Referring to Table 3, following historical trends, the concentrations of alpha-BHC, beta-BHC, and delta-BHC at MW-14 and MW-17, have remained below the RRS. Considering that the groundwater monitoring event discussed in this report represents the first VIRP groundwater monitoring event, the vertical extent of BHC cannot be fully delineated at this point. Utilizing subsequent groundwater monitoring event data, EIC will evaluate and ascertain the trends in the vertical extent of COCs and present its findings in future reports.

Well MW-14, has had concentrations of alpha-, beta-, and delta-BHC below detection limits in March, June, and September 2013. Alpha, beta, and delta-BHC concentrations at MW-17 have remained below RRS for all three groundwater monitoring events. Considering that the groundwater monitoring event discussed in this report represents the third VIRP groundwater monitoring event, the vertical extent of BHC may be delineated after an adequate number of successive groundwater monitoring events. Utilizing subsequent groundwater monitoring event data, EIC will continue to evaluate and ascertain the trends in the vertical extent of COCs and present its findings in future reports.

4.4 BHC PLUME STABILITY

As discussed in Section 5.2, the concentrations of the alpha-BHC, beta-BHC, and delta-BHC plumes have slightly increased while the horizontal extent has slightly decreased and receded up-gradient from the Flint River as compared to those of June 2013. EIC will continue to evaluate data from subsequent groundwater monitoring events to determine if these plumes continue to shrink.

5.0 CONCLUSIONS

During the third VIRP groundwater monitoring event, the largest number of wells ever sampled during one monitoring event since this site has been monitored were sampled. As such, the most complete sample set available to date was available for evaluation. Comparing the September 2013 data with the data from the June and March 2013 groundwater monitoring events, the overall BHC plume appears to be decreasing in horizontal extent, however, it is slightly increasing in concentration. At deep wells, MW-14 and MW-17, the concentrations of the BHC isomers continue to remain below the RRS, following historical trends. It is apparent, however, that a portion of the BHC plumes continues to extend into the Agrium property to the east of GPA property. The highest BHC concentration, as represented by beta-BHC, was observed at MW-22, a well immediately down-gradient of the GGS property and located hydraulically up-gradient of GPA. EIC will continue to evaluate the horizontal and vertical trends in COCs utilizing subsequent groundwater monitoring event data.

6.0 REFERENCES

Environmental International Corporation (EIC), 2012. "*VIRP Application, BHC Remediation*", Bainbridge, Georgia, July 31, 2012.

EIC, 2013a. "*First VIRP Semi-annual Progress Report, Georgia Ports Authority – Bainbridge Terminal, HIS Site No. 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19, Bainbridge, Decatur County, Georgia"*. Bainbridge, Georgia, May 9, 2013.

EIC, 2013b. *"Report on First Quarter 2013 (Baseline) VIRP Quarterly MNA Ground Water Monitoring Event, GPA Bainbridge Terminal, Bainbridge, Georgia"*. Bainbridge, Georgia, October, 2013.

EIC, 2013c. "*Report on Second Quarter 2013 (Baseline) VIRP Quarterly MNA Ground Water Monitoring Event, GPA Bainbridge Terminal, Bainbridge, Georgia"*. Bainbridge, Georgia, October, 2013.

EIC, 2013d. *"June 2013 Land Survey Report, GPA Bainbridge Terminal, Bainbridge, Georgia"*. Bainbridge, Georgia, October, 2013.

Georgia Environmental Protection Division (EPD), 2012a. *Letter from GA EPD to GPA, "Voluntary Investigation and Remediation Plan (VIRP) and Application, July 25, 2012, Georgia Ports Authority – Bainbridge Terminal, Hazardous Site Inventory Number 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19".* November 2, 2012.

EPD, 2012b. *Letter from GA EPD to GPA, "Voluntary Investigation and Remediation Plan (VIRP) and Application, July 25, 2012, Comment Letter, Georgia Ports Authority – Bainbridge Terminal, Hazardous Site Inventory Number 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19".* November 2, 2012.

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U. S. Environmental Protection Agency (EPA), 2013. *Groundwater Sampling, Operating Procedure, Number SESDPROC-301-R3, Region 4, U.S. Environmental Protection Agency, Science and Ecosystem Support Division, Athens, Georgia.* March 6, 2013.

We appreciate the opportunity to have served you on your project needs. If you have any questions, please call or e-mail me.

Sincerely,
ENVIRONMENTAL INTERNATIONAL CORPORATION

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

Cc: Alan Sanders, EIC

TABLES

Table 1: Well Gauging Data for September 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	25.62	79.62	re-marked gauging point on high side of TOC, gauged from mark
MW-1A (2)	105.36	25.75	79.61	gauged from high side of TOC on side towards the nearby railroad
MW-2 (2)	99.70	19.45	80.25	gauged from mark on high east side of TOC, marked trail from new access road with yellow caution tape
MW-3 * (2)	97.13	17.92	79.21	well was developed 24 hours prior to gauging and sampling for the first time under the VIRP, gauged from mark on high side of TOC
MW-4U (2)	103.54	23.92	79.62	gauged from mark on high side of TOC
MW-5A (2)	96.48	17.60	78.88	re-marked gauging point on north side of TOC, mark is towards to the office building
MW-5D (2)	95.93	17.02	78.91	vault was full of sand when opened, removed approximately 2 inches of sand, well cap was replaced with temporary 3" PVC end cap
MW-6 (2)	102.06	23.00	79.06	gauged from high side of TOC, collected duplicate sample
MW-7 (2)	98.16	18.35	79.81	marked gauging point on north side of TOC, gauged from mark
MW-8 (2)	93.39	14.66	78.73	bailed ~4 inches of water from vault prior to gauging
MW-9 ** (2)	NA	NA	NA	
MW-10 * (2)	100.02	20.21	79.81	gauged from mark on TOC towards Spring Creek Road, vault and lid were both off of well when EIC arrived, 3" PVC cap was placed over the original cap and 3 or 4 survey flags were placed around the vault to signal mowers
MW-11 (2)	100.92	21.04	79.88	gauged from mark on TOC towards Spring Creek Road
MW-12 (2)	93.89	15.92	77.97	gauged from mark on north side of TOC
MW-13 (2)	93.35	15.68	77.67	gauged from mark on high side of TOC
MW-14 (2)	101.91	23.14	78.77	gauged from mark on north side of TOC
MW-15 (2)	98.03	19.03	79.00	placed 3" PVC cap on well, placed 3 survey flags around it to signal mowers, and placed a piece of concrete on top of the PVC cap to secure
MW-16 * (2)	97.17	17.24	79.93	gauged from mark on TOC towards Spring Creek Road, inner well cap was loose and vault was full of water, bailed water
MW-17 (2)	93.50	14.61	78.89	gauged from mark on high east side of TOC, well is deformed ~1 ft below ground surface
MW-18 (2)	95.48	16.14	79.34	inner well cap was loose, gauged from mark on north side of TOC
MW-19 (2)	96.54	17.13	79.41	bailed ~3 inches of water from vault, water in vault was 0.25 inches above well cap, matrix spike sample taken
MW-20 * (2)	96.61	16.84	79.77	no inner cap on well when vault was opened, 2" PVC end cap was placed on well after sampling
MW-21 * (2)	97.58	17.76	79.82	bailed ~2 inches of water from vault, inner well cap had a good seal, gauged from mark on north side of TOC
MW-22 * (2)	98.90	19.13	79.77	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
DTB = Depth to Bottom below TOC
NA = Not Applicable
NM = Not Measured

Table 2: Groundwater Quality Field Parameters Summary for September 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
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
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
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
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
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
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
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
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
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
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

Table 2: Groundwater Quality Field Parameters Summary for September 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-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
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
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
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
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
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
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
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
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
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

Table 2: Groundwater Quality Field Parameters Summary for September 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-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
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
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

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 9/3/2013 to 9/5/2013, 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 3: Groundwater Data Summary Table for September 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-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
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
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
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
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
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	0.0049	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**		0.00200	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
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**		0.00200	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
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	
	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	
	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
	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
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
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	
	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	0.0097	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
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	
	6/5/2013		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	
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	
	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	
	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	0.0095	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

Table 3: Groundwater Data Summary Table for September 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-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
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
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	
	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
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	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
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	
	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
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
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
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	0.1	U	0.100	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	**0.025**	J	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
	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
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
MW-20	7/12/2011	**0.46**	J	**16**		**5.9**		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	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
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
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	0.0098	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

Sources: Analytical results for samples collected in April 2012 and earlier are from CH2MHILL 2012, AccuTest 2012, and ECT 201

Notes:

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

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 limit
U = Analyte was not detected.
UBL = Value not certain because of detection in equipment blank.
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 correlation

Table 4: Groundwater Data Summary Table for September 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**
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**
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**	
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**	
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**
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**	
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**
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**
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**
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**
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

Table 4: Groundwater Data Summary Table for September 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-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**
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**
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**
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**
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**
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**
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**
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**	
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**
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**

Table 4: Groundwater Data Summary Table for September 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**
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**	**45.0**	
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**

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

Notes:

Samples delivered to laboratory within holding time.

* Concentrations of chloride (0.174 J mg/L) were detected in the equipment blank sampled on 09/06/2013.

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 limit.
1.50 = Result above detection limit.
NM = Contaminant Not Measured.
NL = Well not located
NS = Well not sampled
DRY = Well was dry and therefore could not be sampled
D = The sample was diluted due to targets detected over the highest point of the calibration curve.

FIGURES

MOUNT OLIVE ROAD

GEORGIA GULF SULFUR

GEORGIA HWY 253

SPRING CREEK ROAD

NORTH PARCEL

SOUTH PARCEL

AGRIUM

ERGON

OFFICE

R.S.W.

W.H.1

W.H.2

W.H.3

N.L.

FLINT RIVER

MW-1

MW-1A

MW-2

MW-3

MW-4U

MW-5A

MW-5D

MW-6

MW-7

MW-8

MW-9

MW-10

MW-11

MW-12

MW-13

MW-14

MW-15

MW-16

MW-17

MW-18

MW-19

MW-20

MW-21

MW-22

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)

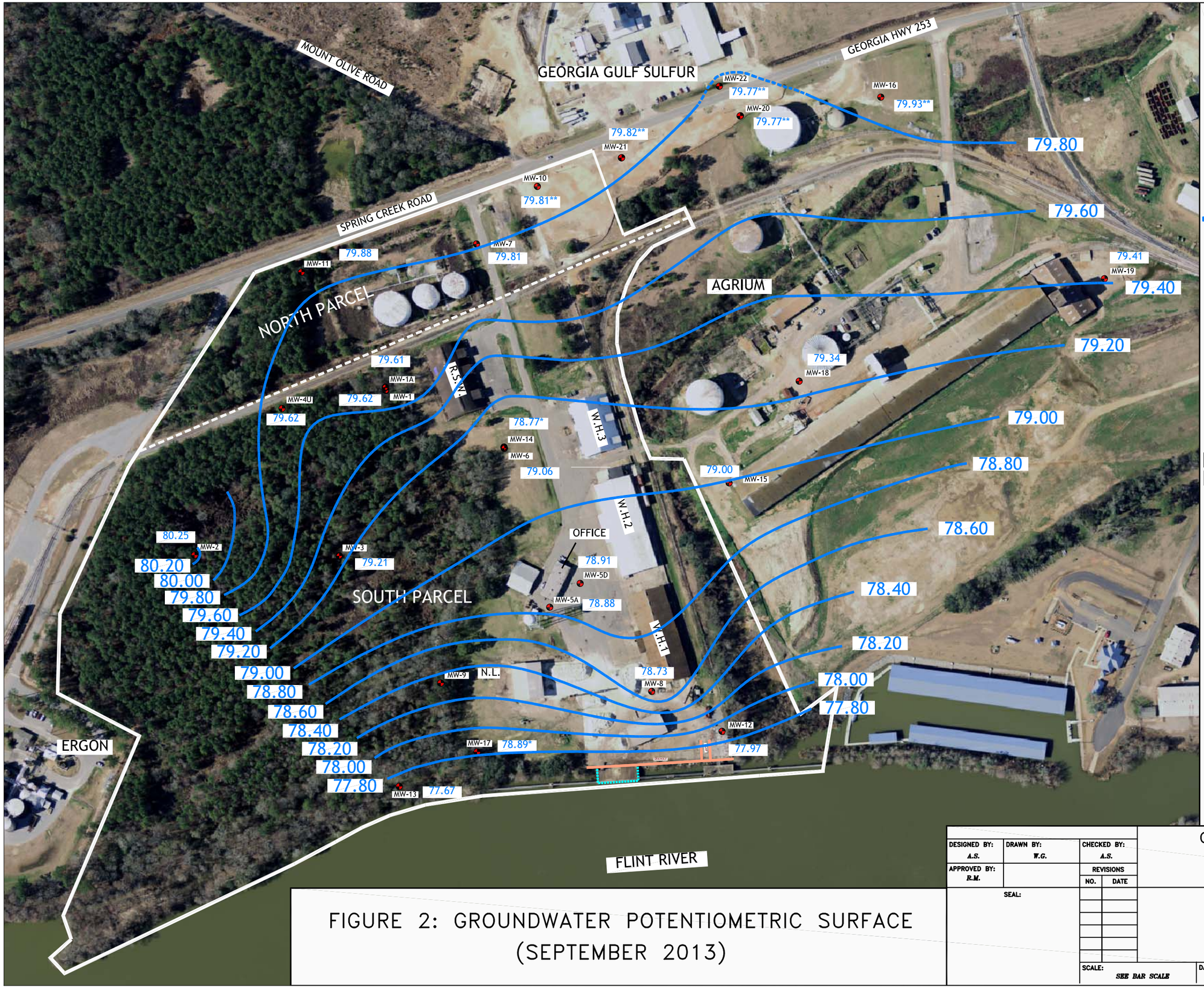
FIGURE 1: SITE MAP

DESIGNED BY: A.S.	DRAWN BY: W.G.	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	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
79.40	GROUNDWATER ELEVATION CONTOUR
79.31	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
	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)

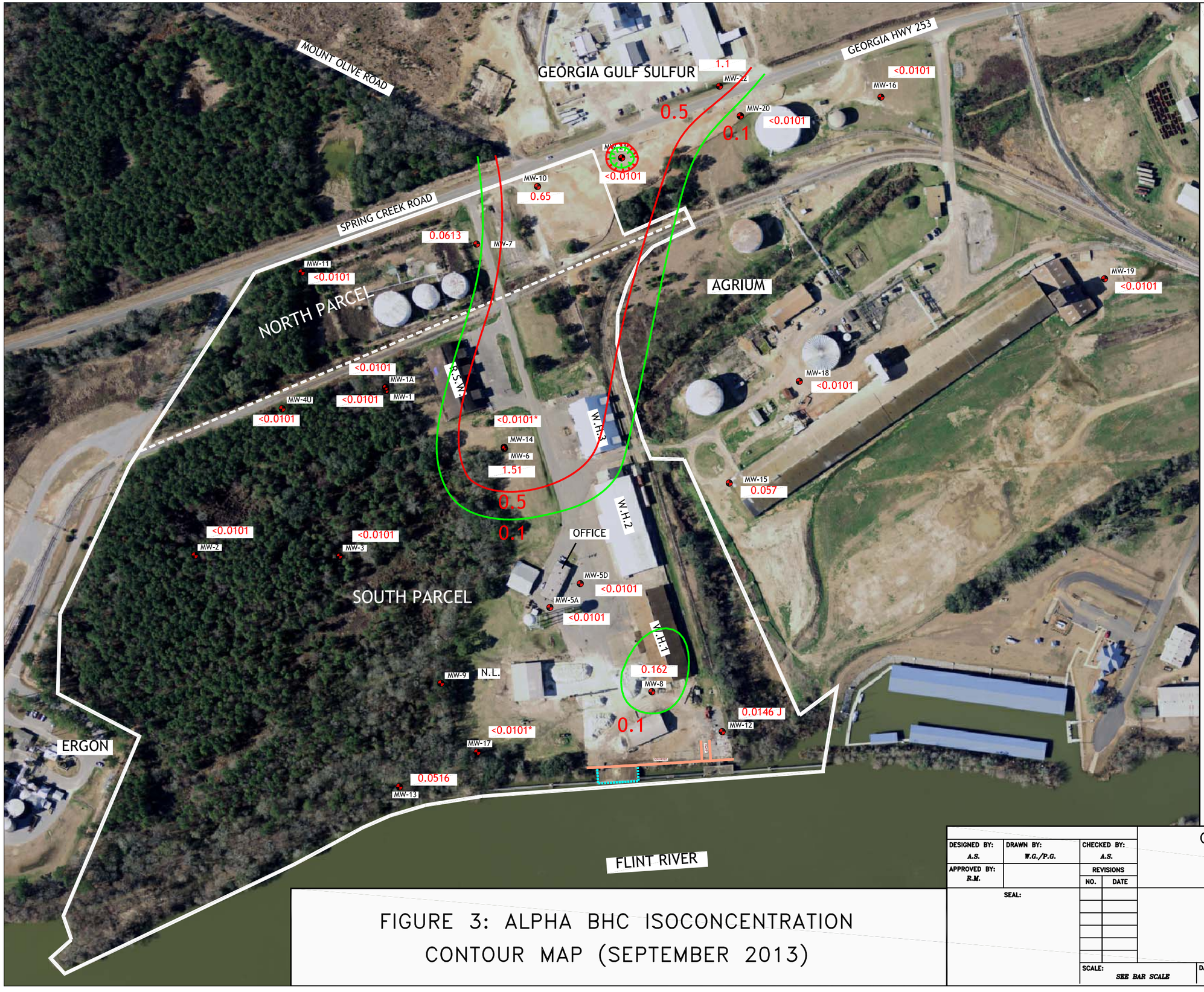
FIGURE 2: GROUNDWATER POTENTIOMETRIC SURFACE (SEPTEMBER 2013)

DESIGNED BY: A.S.	DRAWN BY: W.G.	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	9/23/2013	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
1.23	BHC CONCENTRATION (ug/L)
J	TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTIATION LIMIT AND ABOVE THE DETECTION LIMIT
N.M.	NOT MEASURED
	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 3: ALPHA BHC ISOCONCENTRATION CONTOUR MAP (SEPTEMBER 2013)

DESIGNED BY: A.S.	DRAWN BY: W.G./P.G.	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	10/9/2013	400007 – 4.5 – GPA BAINBRIDGE	

MOUNT OLIVE ROAD
GEORGIA GULF SULFUR
GEORGIA HWY 253
SPRING CREEK ROAD
NORTH PARCEL
AGRIUM
SOUTH PARCEL
ERGON
FLINT RIVER
OFFICE
R.S.W.
W.H.1
W.H.2
W.H.3
N.L.
MW-2 <0.0023
MW-3 <0.0023
MW-4U <0.0023
MW-1A
MW-1 <0.0023
MW-5D 0.12
MW-5A 0.389
MW-6 1.61
MW-7 0.365
MW-8 1.68
MW-9
MW-10 8.6
MW-11 <0.0023
MW-12 0.847
MW-13 6.36
MW-14
MW-15 0.221
MW-16 <0.0023
MW-17 0.39*
MW-18 0.409
MW-19 <0.0023
MW-20 2.21
MW-21 0.286
MW-22 33.7
<0.0023*
30
25
20
15
10
5
1.6
0.1

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
0.119	BHC CONCENTRATION (ug/L)
J	TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTIATION LIMIT AND ABOVE THE DETECTION LIMIT
N.M.	NOT MEASURED
	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
	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: BETA BHC ISOCONCENTRATION CONTOUR MAP (SEPTEMBER 2013)

DESIGNED BY: A.S.	DRAWN BY: W.G.	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	10/7/2013	400007 – 4.5 – GPA BAINBRIDGE	

MOUNT OLIVE ROAD
GEORGIA GULF SULFUR
GEORGIA HWY 253
SPRING CREEK ROAD
NORTH PARCEL
AGRIUM
SOUTH PARCEL
ERGON
FLINT RIVER
OFFICE
R.S.W.
W.H.1
W.H.2
W.H.3
MW-1 <0.002
MW-1A <0.002
MW-2 <0.002
MW-3 <0.002
MW-4U <0.002
MW-5A <0.002
MW-5D <0.002
MW-6 2.33
MW-7 <0.002
MW-8 0.112
MW-9 N.L.
MW-10 0.511
MW-11 <0.002
MW-12 <0.002
MW-13 0.0849
MW-14 <0.002*
MW-15 <0.002
MW-16 <0.002
MW-17 0.0162*
MW-18 <0.002
MW-19 <0.002
MW-20 <0.002
MW-21 <0.002
MW-22 0.725
0.1 0.1
0.1 0.1
0.1 0.1

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
0.818	BHC CONCENTRATION (ug/L)
J	TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTIATION LIMIT AND ABOVE THE DETECTION LIMIT
N.M.	NOT MEASURED
	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:

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)

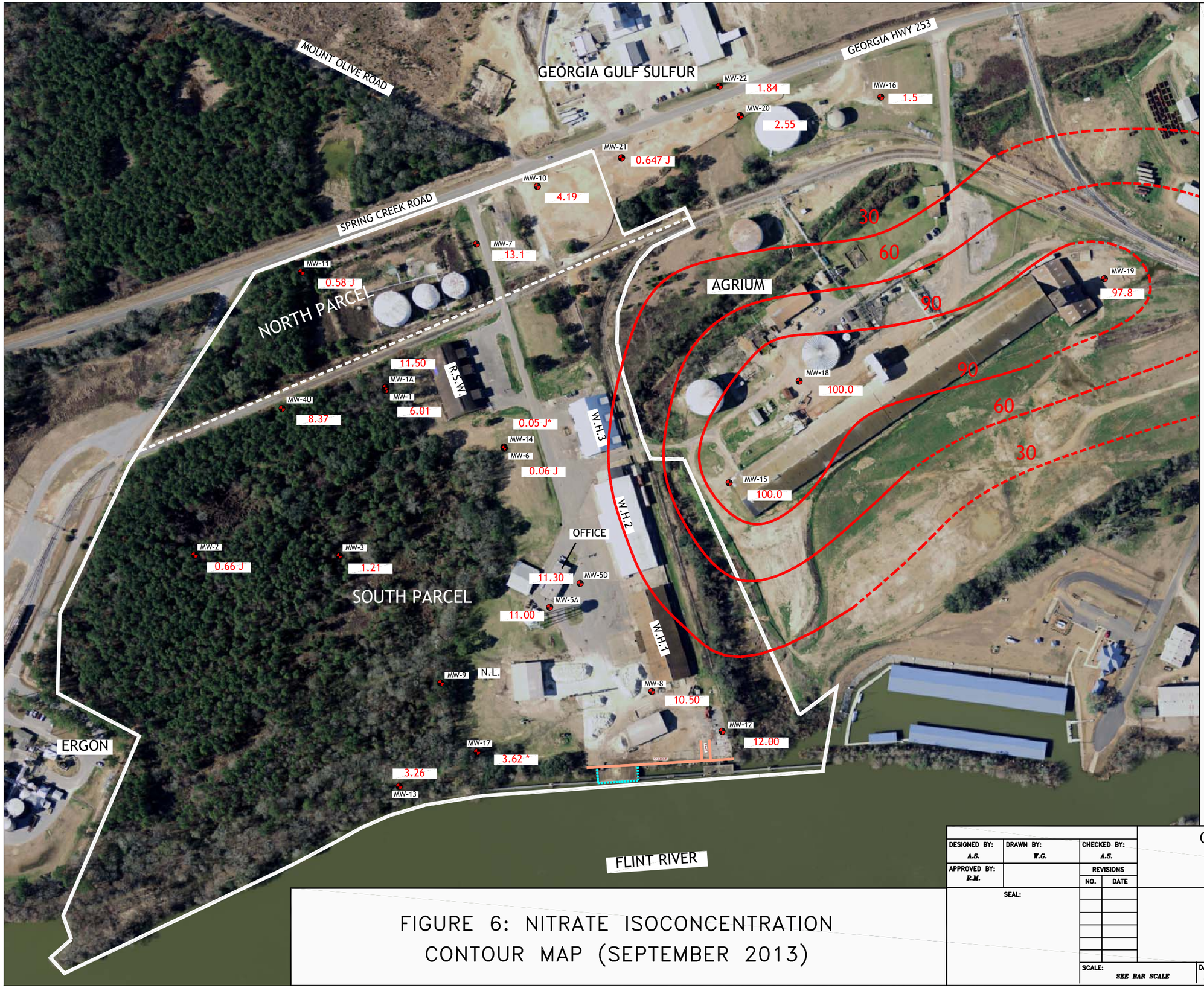
FIGURE 5: DELTA BHC ISOCONCENTRATION CONTOUR MAP (September 2013)

DESIGNED BY: A.S.	DRAWN BY: W.G.	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	9/23/2013	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
96.1	NITRATE CONCENTRATION (mg/L)
J	TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTIATION LIMIT AND ABOVE THE DETECTION LIMIT
	NITRATE CONTOUR LINE
N.M.	NOT MEASURED NITRATE CONTOUR LINE
*	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 = 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:

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)

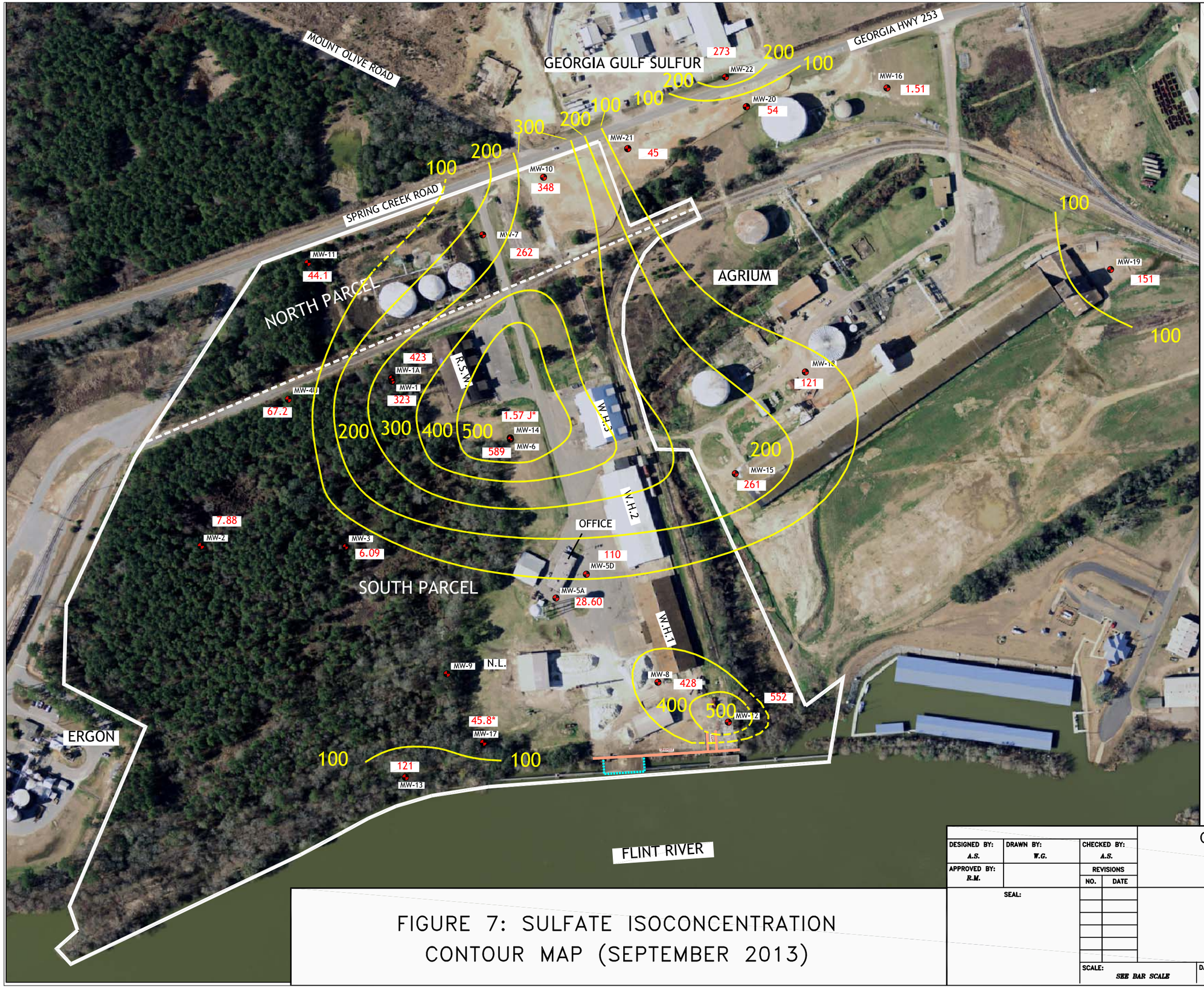
FIGURE 6: NITRATE ISOCONCENTRATION CONTOUR MAP (SEPTEMBER 2013)

DESIGNED BY: A.S.	DRAWN BY: W.G.	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	10/24/2013	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
172	SULFATE CONCENTRATION (mg/L)
J	TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTIATION 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
	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:

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 7: SULFATE ISOCONCENTRATION CONTOUR MAP (SEPTEMBER 2013)

DESIGNED BY: A.S.	DRAWN BY: W.G.	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	10/24/2013	400007 – 4.5 – GPA BAINBRIDGE	

ATTACHMENT A

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

DATE: 9/3/13	PROJECT NAME: GPA Bainbridge	WELL/SAMPLE NO: MW-1
WEATHER CONDITIONS: Sunny, ~90°F, High Humidity, no 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: 19.50 FT. to 29.50 FT.	
INITIAL WATER LEVEL (BTOC): 25.62 FT. TIME: 9:58	BTOC WELL SCREEN INTERVAL: 22.01 FT. to 32.01 FT.	
HISTORICAL TOTAL WELL DEPTH (BTOC): 32.51 FT.	MEASURED TOTAL WELL DEPTH (BTOC) 32.77 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 #: U1RUSDA9

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	22.75	3.67	353	0.413	0.3	~~4~~4.30	25.62	Initial water
10:17	1260	20.75	3.59	375	0.46	0.0	4.5	25.62	in tube is clear
10:22	2400	20.54	3.59	385	0.476	0.0	4.42	25.62	
10:27	3600	20.54	3.58	392	0.484	0.0	4.31	25.62	

COMMENTS:

SAMPLE COLLECTION TIME: 10.28

PREPARED BY: Jennifer Wilson

* 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.)	32.0
Initial tubing depth (ft.) BTOC	29.0
Final tubing depth (ft.) BTOC	29.0
Initial pump speed	7.02
Time pump speed was initialized	10:08
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	10:22								
Cummulative Volume (mL)	2400								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

PAGE 1 OF 1

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-1A

DATE: 9/3/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Overcast, ~80°F, slight breeze from west, very humid

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): 25.75 FT. | TIME: 10:55 | BTOC WELL SCREEN INTERVAL: 25.85 FT. to 35.85 FT.

HISTORICAL TOTAL WELL DEPTH (BTOC): 39.85 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 36.75 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 #: VDRUSD19

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.)
11:08	0	23.76	3.61	346	0.613	0.4	4.45	25.75	1st full clear
11:13	1220	21.92	3.57	365	0.622	1.6	3.53	25.74	
11:18	2420	21.85	3.58	374	0.649	8.6	3.64	25.74	some bubbles
11:23	3620	21.88	3.59	381	0.657	13.1	4.44	25.75	in tube
11:28	4760	21.7	3.61	386	0.662	2.1	2.89	25.75	

COMMENTS:

SAMPLE COLLECTION TIME: 11:30

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.)	34.5
Initial tubing depth (ft.) BTOC	31.0
Final tubing depth (ft.) BTOC	31.0
Initial pump speed	7.12
Time pump speed was initialized	11:04
Pump speed at flow into cylinder	7.12
Started new roll of tubing at	
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	11:16	11:24							
Cummulative Volume (mL)	2000	4000							

Additional remarks: approximately 1 inch of silt/mud on bottom of probe after DTB was taken.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-2

DATE: 9/4/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: ~90°F, High humidity, Partly cloudy, no 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): 19.45 FT. | TIME: 11:57 | BTOC WELL SCREEN INTERVAL: 15.85 FT. to 25.85 FT.

HISTORICAL TOTAL WELL DEPTH (BTOC): 27.85 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 29.17 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 #: UDRUSDA9

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.)
12:17	0	23.15	4.85	213	0.054	0.0	6.40	19.52	Initial water
12:22	1260	20.60	4.64	233	0.054	0.0	4.19	19.52	in tube is clear
12:27	2580	20.42	4.66	238	0.053	0.0	3.57	19.51	
12:32	3940	20.32	4.63	245	0.053	0.0	3.37	19.51	Water in cylinder
									is clear

COMMENTS:

SAMPLE COLLECTION TIME: 12:33

PREPARED BY: ~~JW~~ Jennifer Wilson

* 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	23.0
Final tubing depth (ft.) BTOC	23.0
Initial pump speed	7.07
Time pump speed was initialized	12:15
Pump speed at flow into cylinder	7.07
Started new roll of tubing at	11:50
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	12:26								
Cummulative Volume (mL)	2300								

Additional remarks: Alan marked the trail from the road with yellow caution tape

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-3

DATE: 9/5/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny, ~ 88°F, High humidity, 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): 17.92 FT. | TIME: 11:05 | BTOC WELL SCREEN INTERVAL: 17.83 FT. to 27.83 FT.

HISTORICAL TOTAL WELL DEPTH (BGS): 25.0 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 26.79 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 #: UDRV5DA9

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.)
11:17	0	25.15	5.02	231	0.056	26.2	4.93	17.94	Initial water
~~11:22~~ 11:23	1580	22.9	4.92	236	0.055	23.2	4.38	17.94	in tube ~~is~~ is clear
11:27	2660	22.10	4.92	238	0.056	28.9	4.37	17.94	
11:32	4090	21.77	4.90	240	0.057	31.0	4.38	17.94	Few bubbles in tube
									Water in cylinder is cloudy.

COMMENTS:

SAMPLE COLLECTION TIME: 11:33

PREPARED BY: Jennifer Wilson

* 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	23.0
Final tubing depth (ft.) BTOC	23.0
Initial pump speed	7.07
Time pump speed was initialized	11:14
Pump speed at flow into cylinder	7.07
Started new roll of tubing at	
Three well volume (mL)	

Well ~~was de~~ fi development was completed at 10:22 on 9/4/2013

2,000 mL volume poured into bucket:

Time	11:24	11:31							
Cummulative Volume (mL)	2000	4000							

Additional remarks: Gauged from high side/mark

Inner well cap is loose when we put it back on.

Outer ~~vault~~ well vault is not damaged.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-4U

DATE: 9/3/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Overcast, foggy ~80°F very humid

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): 23.92 FT. | TIME: 9:00 | BTOC WELL SCREEN INTERVAL: 18.05 FT. to 33.05 FT.

HISTORICAL TOTAL WELL DEPTH (BTOC): 33.05 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 31.75 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 #: UDRV5D49

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.)
9:22	0	22.31	4.04	316	0.253	6.5	5.5	23.93	First pull was clear
9:27	1100	20.64	3.97	348	0.263	0.3	4.77	23.93	Few air bubbles
9:32	2340	20.52	3.97	361	0.261	0.0	4.54	23.94	

COMMENTS:

SAMPLE COLLECTION TIME: 9:35

PREPARED BY: Patrick Gleason

* 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.)	31.5
Initial tubing depth (ft.) BTOC	28.5
Final tubing depth (ft.) BTOC	28.5
Initial pump speed	7.18
Time pump speed was initialized	9:19
Pump speed at flow into cylinder	7.18
Started new roll of tubing at	
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	9:30								
Cummulative Volume (mL)	2000								

Additional remarks: ~3" of silt on bottom of probe after DTB reading

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-5A

DATE: 9/5/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny, ~85°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: 16.50 FT. to 26.50 FT.

INITIAL WATER LEVEL (BTOC): 17.6 FT. | TIME: 8:23 | BTOC WELL SCREEN INTERVAL: 16.2 FT. to 26.2 FT.

HISTORICAL TOTAL WELL DEPTH (BGS): 27.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 22.70 FT. | FLUSH-TO-GRADE ~.3 FT. 1.05

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 #: UDRV5DA9

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.)
8:32	0	24.72	4.35	300	0.249	0.0	4.60	17.63	Initial water
8:37	1120	24.49	4.35	298	0.253	3.0	3.89	17.62	in tub was
8:42	2320	24.49	4.34	299	0.256	0.0	3.69	17.63	clear
									Water is clear in cylinder

COMMENTS:

SAMPLE COLLECTION TIME: 8:43

PREPARED BY: Jennifer Wilson

* 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.)	25.0
Initial tubing depth (ft.) BTOC	22.0
Final tubing depth (ft.) BTOC	22.0
Initial pump speed	7.03
Time pump speed was initialized	8:29
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	8:40								
Cummulative Volume (mL)	2000								

Additional remarks: Gauge from mark perpendicular to building
Could not get all of the screws in the vault cap when finished sampling

ENVIRONMENTAL INTERNATIONAL CORPORATION

PAGE 1 OF 1

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-5D

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

WEATHER CONDITIONS: ~~Sattle~~ Scattered ~~Clouds~~ clouds, ~ 85°F, High humidity ~ 1 mph West 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): 17.07 FT. | TIME: 18:09 | BTOC WELL SCREEN INTERVAL: 14.8 FT. to 24.8 FT.

HISTORICAL TOTAL WELL DEPTH (BGS): 25.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 25.15 FT. | FLUSH-TO-GRADE ~0.2 FT. ± .02

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.)
18:21	~~18:26~~	0	28.16	6.24	134	6.53	40.4	4.36	17.07	First half inch
	18:26	1300	~~28.16~~ 26.25	6.42	1	2.44	11.3	1.51	17.07	contains black
										particulates,
	18:31	2560	26.22	6.13	14	1.08	0.3	0.93	17.06	Initial water in
18:38	~~18:36~~	4400	26.19	5.67	58	0.707	0.0	0.72	17.06	tube has brown tint.
	18:41	5100	26.23	5.61	65	0.674	0.0	0.72	17.06	
	18:46	6320	26.28	5.53	77	0.657	0.0	0.72	17.06	Black particulates
7500 mL	18:51	~~7500~~	26.26	5.46	85	0.657	0.0	0.7	17.07	scattered in tube
	18:56	8760	26.16	5.43	91	0.667	0.0	0.7	17.07	
										Clear water in
										cylinder. No odor

COMMENTS:

SAMPLE COLLECTION TIME: 18:58

PREPARED BY: Jenaifer Wilson

* 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.)	24.5
Initial tubing depth (ft.) BTOC	21.0
Final tubing depth (ft.) BTOC	21.0
Initial pump speed	7.04
Time pump speed was initialized	18:18
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	18:28	18:38	18:46	18:54					
Cummulative Volume (mL)	2000	4400	6400	8400					

Additional remarks: Vault was full of sand when opened. Removed approximately 2 inches of sand from vault. Inner well cap was also damaged.

Oats were found in Horiba

Top of well was filed in order to have a better fit for inner cap

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

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

DATE: 9/3/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Thunder, slight rain ~88°F

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): 23.0 FT. | TIME: 14:42 | BTOC WELL SCREEN INTERVAL: 46.8 FT. to 51.8 FT.

HISTORICAL TOTAL WELL DEPTH (BGS): 52.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 51.72 FT. | FLUSH-TO-GRADE ~.2 FT. 5.03

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.)
14:58	0	24.32	5.39	96	1.47	48.6	10.36	23.78	first pull clear, some bubbles
~~14~~ 15:03	1040	22.99	5.46	81	1.59	44.1	6.87	24.29	
15:08	2100	22.67	5.44	84	1.62	41.1	5.03	24.63	
15:13	3240	22.57	5.47	90	1.70	43.3	4.10	24.77	
15:18	4320	22.59	5.45	78	1.74	41.0	3.41	24.80	small bubble
15:23	5400	22.47	5.42	79	1.77	36.8	3.16	24.80	

COMMENTS:

SAMPLE COLLECTION TIME: 15:25

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.)	53.0
Initial tubing depth (ft.) BTOC	~~50.0~~ 49.5
Final tubing depth (ft.) BTOC	49.5
Initial pump speed	7.04
Time pump speed was initialized	14:55
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	15:08	15:17							
Cummulative Volume (mL)	2100	4100							

Additional remarks: water in cylinder is clear

Duplicate sample at 15:34

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-7

DATE: 9/4/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny, high humidity, no wind, ~87°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): 18.35 FT. | TIME: 8:34 | BTOC WELL SCREEN INTERVAL: 14.5 FT. to 25.5 FT.

HISTORICAL TOTAL WELL DEPTH (BGS): 26.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 22.14 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.)
9:03	0	23.95	5.7	247	0.373	204	2.66	18.36	some bubbles
9:08 (9:09)	420	23.71	5.64	204	0.408	106	1.34	18.37	
9:13 (9:14)	1720	23.65	5.24	255	0.429	56.5	1.04	18.37	cloudy yellow/gray in cylinder
9:18	2360	23.65	4.89	275	0.443	38.5	0.95	18.38	
9:23	3160	23.69	4.63	288	0.459	25.1	0.9	18.38	
9:28	3940	23.71	4.51	294	0.476	17.2	0.9	18.38	
9:33	4740	23.76	4.46	297	0.49	12.1	0.91	18.38	
9:38	5480	23.8	4.41	300	0.502	8.8	0.93	18.38	
9:43	6240	23.81	4.38	301	0.512	7.8	0.92	18.38	

COMMENTS:

SAMPLE COLLECTION TIME: 9:45

PREPARED BY: Patrick

* 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	22.5
Final tubing depth (ft.) BTOC	20.5
Initial pump speed	7.08
Time pump speed was initialized	9:41
Pump speed at flow into cylinder	5.02
Started new roll of tubing at	
Three well volume (mL)	

2nd attempt: 5.02

2nd attempt: 9:00

2,000 mL volume poured into bucket:

Time	9:15	9:28	9:41						
Cummulative Volume (mL)	2000	4000	6000						

Additional remarks: Marked TOC on north side. Were not able to put tube all the way to calculated 22.5' turned on pump and observed that it was pulling dirt and other debris. Measured DTB to be 22.14. Repositioned tube to 20.5' and ran pump. Stopped pump & w/o connection to horiba to clear tube. Once clear, started over

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

DATE: 9/4/2013	PROJECT NAME: GPA Bainbridge	WELL/SAMPLE NO:	MW-8
WEATHER CONDITIONS: Partly cloudy ~98°F No 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): 14.66 FT.	TIME: 16:38	BTOC WELL SCREEN INTERVAL: 11.7 FT. to 22.2 FT.	
HISTORICAL TOTAL WELL DEPTH (BGS): 23.00 FT.	MEASURED TOTAL WELL DEPTH (BTOC) 21.90 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 #: U0RU5DA9	

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.)
16:52	0	32.24	3.88	232	1.04	0.0	4.64	14.67	First pull is clear
16:57	1340	27.99	3.74	258	1.09	0.0	2.82	14.68	
17:02	2620	27.14	3.74	268	1.09	0.0	2.34	14.68	
17:07	3920	26.94	3.73	275	1.1	0.0	2.12	14.67	

COMMENTS:

SAMPLE COLLECTION TIME: 17:09

PREPARED BY: Patrick Cragson

* 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.)	~~6.5~~ 21.5
Initial tubing depth (ft.) BTOC	19.0
Final tubing depth (ft.) BTOC	19.0
Initial pump speed	7.05
Time pump speed was initialized	16:49
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	16:59	17:07							
Cummulative Volume (mL)	2000	4000							

Additional remarks: Bailed ~4 inches of water out of well

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-10

DATE: 9/5/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunrise, Scattered clouds ~75° F

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): 20.21 FT. | TIME: 7:15 | BTOC WELL SCREEN INTERVAL: ~~14.9~~ 20.1 FT. to ~~29.9~~ 30.1 FT.

HISTORICAL TOTAL WELL DEPTH (BGS): 30.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 30.95 FT. | FLUSH-TO-GRADE +.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 #: UDRUSD49

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.)
7:27	200	22.92	3.84	301	0.839	1.4	3.96	20.64	1st pull clear
7:32	1220	22.48	3.7	304	0.884	0.0	2.33	20.76	few air bubbles
7:37	2380	22.39	3.68	317	0.925	0.0	1.77	20.80	
7:42	3560	22.36	3.67	326	0.927	0.0	1.51	20.83	

COMMENTS:

SAMPLE COLLECTION TIME: 7:44

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.)	29.0
Initial tubing depth (ft.) BTOC	25.5
Final tubing depth (ft.) BTOC	25.5
Initial pump speed	7.1
Time pump speed was initialized	7:23
Pump speed at flow into cylinder	7.1
Started new roll of tubing at	
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	7:35								
Cummulative Volume (mL)	2000								

Additional remarks: Vault lid + cap were both off of well when EIL arrived gauging at black mark

O/w probe had sewer odor when removed from well + tubing Alan put original cap back on + 3" pvc cap over the top and stuck survey flags around well

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-11

DATE: 9/3/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: High humidity, Slightly foggy, ~88° F, no wind

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): 21.04 FT. | TIME: 7:35 | BTOC WELL SCREEN INTERVAL: 16.7 FT. to 26.7 FT.

HISTORICAL TOTAL WELL DEPTH (BGS): 30.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 27.53 FT. | FLUSH-TO-GRADE ~.3 FT. ±0.5 tapp°

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.)
				330				21.08	
7:52	0	21.47	3.88	~~157~~	0.226	9.9	5.23	~~21.13~~	Initial water in
7:57	1160	20.42	3.77	352	0.191	11.5	6.92	21.08	tube is clear
8:02	2420	20.27	3.77	363	0.187	11.7	7.48	21.07	
8:07	3700	20.21	3.77	371	0.186	11.7	7.24	21.07	Slightly cloudy in cylinder

COMMENTS:

SAMPLE COLLECTION TIME: 8:08

PREPARED BY: Jennifer Wilson

* 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	24.0
Final tubing depth (ft.) BTOC	24.0
Initial pump speed	7.02
Time pump speed was initialized	7:49
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	8:00								
Cummulative Volume (mL)	2000								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-12

DATE: 9/3/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: overcast ~55°F, High Humidity, 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): 15.92 FT. | TIME: 16:28 | BTOC WELL SCREEN INTERVAL: 11.75 FT. to 21.75 FT.

HISTORICAL TOTAL WELL DEPTH (BGS): 22.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 22.58 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.)
16:40	0	25.26	5.91	74	1.16	7.0	3.00	15.93	Initial Water
16:45	1300	24.13	5.80	84	1.20	2.8	1.39	15.94	in tube is clear
16:50	2480	23.99	5.68	102	1.23	3.0	1.16	15.94	
16:55	3840	23.94	5.63	112	1.24	3.6	1.09	15.94	Few bubbles
17:00	5220	23.85	5.63	118	1.24	2.3	1.07	15.95	in tube
									Water in cylinder
									has slight
									blue tint

COMMENTS:

SAMPLE COLLECTION TIME: 17:01

PREPARED BY: Jennifer Wilson

* 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.)	21.5
Initial tubing depth (ft.) BTOC	19.0
Final tubing depth (ft.) BTOC	19.0
Initial pump speed	7.0
Time pump speed was initialized	16:38
Pump speed at flow into cylinder	7.0
Started new roll of tubing at	
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	16:49	16:56							
Cummulative Volume (mL)	2300	4300							

Additional remarks: bottle became very hot when water entered
400 mL sulphuric acid

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-13

DATE: 9/5/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny, ~ 88°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: 12.00 FT. to 22.00 FT.

INITIAL WATER LEVEL (BTOC): 15.~~20~~68 FT. | TIME: 9:27 | BTOC WELL SCREEN INTERVAL: 11.7 FT. to 21.7 FT.

HISTORICAL TOTAL WELL DEPTH (BGS): 16.57 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 16.43 FT. | FLUSH-TO-GRADE ~~0.5~~ ~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.)
9:44	0	24.96	4.67	268	0.501	0.3	3.21	15.72	1st pull clear
9:49	600	23.89	4.66	263	0.523	0.0	1.72	15.72	
9:54	1480	21.91	4.72	226	0.512	0.0	0.88	15.73	
10:00	2340	21.68	4.82	194	0.~~4~~99	0.0	0.82	15.73	Clear in cylinder
10:05	3140	21.48	4.85	178	0.494	0.0	0.80	15.73	
10:10	4000	21.38	4.~~87~~	171	0.495	0.0	0.80	15.73	

9:55 → 5 well volumes purged

COMMENTS: | SAMPLE COLLECTION TIME: 10:12 | PREPARED BY: Patrick Olayson

* 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.

0.73' = 8.76"

~~27.5~~

Length of tubing cut (ft.)	20.25
Initial tubing depth (ft.) BTOC	16.25
Final tubing depth (ft.) BTOC	16.25
Initial pump speed	2.16
Time pump speed was initialized	9:34
Pump speed at flow into cylinder	3.58
Started new roll of tubing at	
Three well volume (mL)	1351.3

3.01 | 3.58 | 4.03 | 5.0
9:41 | 9:43 | 4:46 | 9:51
300mL | 920mL

2,000 mL volume poured into bucket:

Time	9:58	10:10							
Cummulative Volume (mL)	2000	2000							

Additional remarks: Because of small water column, placed tubing 0.2' off of bottom

Firm bottom when DTB reading taken

Increased speed at 9:41 because water level not dropping, continued to increase speed as long as water level held

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

PAGE 1 OF 1

DATE: 4/3/13	WELL/SAMPLE NO: MW-14
PROJECT NAME: GPA Bainbridge	PROJECT NO: 400007 - 4.5
WEATHER CONDITIONS: High humidity ~93°F, Thunder ~~in storm~~, ~5mph ~~east~~ ~~wind~~	NW Wind, dark clouds
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): 23.14 FT. TIME: 13:35	BTOC WELL SCREEN INTERVAL: 66.85 FT. to 71.85 FT.
HISTORICAL TOTAL WELL DEPTH (BGS): 72.00 FT.	MEASURED TOTAL WELL DEPTH (BTOC) 71.58 FT. FLUSH-TO-GRADE ~.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 #: UDRV5DA9

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.)
13:56	0	25.71	6.77	124	0.308	35.2	2.60	23.47	First inch in
14:01	1140	23.92	7.22	-59	0.310	36.0	2.35	23.81	tube is tinted
14:06	2200	23.45	7.20	-99	0.295	48.4	1.92	23.97	brown
14:11	3380	23.25	7.09	-105	0.281	52.2	1.67	24.03	
14:16	4380	23.24	7.07	-106	0.271	53.3	1.50	24.04	few air bubbles
14:21	5600	23.28	7.00	-107	0.273	54.0	1.41	24.04	in tube
									Cloudy water in
									cylinder with
									gray ~~tint~~/blue
									tint
									"

COMMENTS:

SAMPLE COLLECTION TIME: 14:23

PREPARED BY: Jennifer Wilson

* 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.)	74.0
Initial tubing depth (ft.) BTOC	70.0
Final tubing depth (ft.) BTOC	70.0
Initial pump speed	7.0
Time pump speed was initialized	13:52
Pump speed at flow into cylinder	7.0
Started new roll of tubing at	
Three well volume (mL)	

2,000 mL volume poured into bucket: 14:06

Time	~~2200~~	14:16							
Cummulative Volume (mL)	2200	4380							

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-15

DATE: 9/4/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Partly cloudy, 96°F, slight breeze from south

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): 19.03 FT. | TIME: 14:09 | BTOC WELL SCREEN INTERVAL: 13.0 FT. to 23.0 FT.

HISTORICAL TOTAL WELL DEPTH (BGS): 20.11 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 20.11 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 #: U1DRUSDA9

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.)
14:29	0	28.81	6.54	-24	6.27	0.0*	1.76	19.35	dark particulates in 1st 1/8
14:34	460	26.68	6.57	-69	5.38	0.0*	1.51	19.38	water is dark gray
14:39	860	26.3	6.58	-86	4.28	769	1.27	19.38	in tube
14:44	1260	25.96	6.56	-93	3.59	523	1.06	19.37	water in cylinder is
14:49	1780	25.51	6.53	-91	3.30	176	0.91	19.45	cloudy & black
14:54	2340	25.37	6.51	-98	3.09	170	0.77	19.46	strong sewer smell
15:00 14:59	3000	25.46	6.50	-85	3.02	160	0.65	19.45	
15:04	4420	25.65	6.50	-84	3.02	135	0.6	19.45	

COMMENTS:

SAMPLE COLLECTION TIME: 15:05

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.

* Actually over 1000 NTU

Length of tubing cut (ft.)	23.5
Initial tubing depth (ft.) BTOC	19.8
Final tubing depth (ft.) BTOC	19.8
Initial pump speed	2.05
Time pump speed was initialized	14:18
Pump speed at flow into cylinder	3.10
Started new roll of tubing at	
Three well volume (mL)	

2.59	3.10	4.0
14:24	14:26	14:45

140 mL

9/5/2013 8:08: dug around well & placed 3" pvc cap stuck 3 survey flags around it and placed rock on top

2,000 mL volume poured into bucket:

Time	14:50								
Cummulative Volume (mL)	2000								

Additional remarks: the rock that was put on top of well after last sampling event has been removed.

pump speed increased at 14:24 because no air bubbles observed worm/larvae floating in cylinder

Put rock back on the well. Plan to bring a 3" cap tomorrow

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-16

DATE: 9/3/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Overcast 78°F 5 mph south 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): 17.24 FT. | TIME: 17:48 | BTOC WELL SCREEN INTERVAL: 13.8 FT. to 23.8 FT.

HISTORICAL TOTAL WELL DEPTH (BGS): 24.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 23.82 FT. | FLUSH-TO-GRADE ~.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 #: UDRUSDA9

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.)
17:59	0	24.8	5.1	175	0.045	144	3.48	17.28	First ½" has brown tint
18:04	1320	23.54	5.19	171	0.043	142	2.33	17.28	some bubbles
18:09	2640	23.57	5.28	171	0.043	135	2.57	17.27	
18:14	4000	23.51	5.3	174	0.042	125	2.79	17.28	
18:19	5340	24.49	5.26	181	0.041	116	3.0	17.28	

COMMENTS:

SAMPLE COLLECTION TIME: 18:20

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.)	24.5
Initial tubing depth (ft.) BTOC	20.5
Final tubing depth (ft.) BTOC	20.5
Initial pump speed	7.1
Time pump speed was initialized	17:56
Pump speed at flow into cylinder	7.1
Started new roll of tubing at	
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	18:06	18:14							
Cummulative Volume (mL)	2000	4000							

Additional remarks: Inner cap was loose & vault was full of water
Water is brownish and cloudy in cylinder
bottom was hard
high turbidity possibly due to loose cap allowing muddy water in
When water first entered 40 ml sulphuric acid bottle it became hot to touch

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-17

DATE: 9/4/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Scattered clouds, ~88° 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: 50.00 FT. to 60.00 FT.

INITIAL WATER LEVEL (BTOC): 14.61 FT. | TIME: 10:35 | BTOC WELL SCREEN INTERVAL: 49.55 FT. to 59.55 FT.

HISTORICAL TOTAL WELL DEPTH (BGS): 60.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 60.61 FT. | FLUSH-TO-GRADE ~ 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 #: UDRU5D49

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.)
10:48	0	23.55	6.27	109	0.082	60.5	4.61	14.62	Initial Water
10:53	1240	21.52	7.0	74	0.419	4.3	1.75	14.62	in tube is clear
10:58	2640	21.33	7.11	75	0.459	19.9	1.12	14.62	
11:03	4000	21.33	7.16	71	0.514	8.2	0.87	14.62	Few bubbles in
11:08	5420	21.30	7.16	67	0.519	24.9	0.74	14.62	tube
11:13	6800	21.34	7.17	62	0.523	13.3	0.68	14.62	
									Water in cylinder is clear

COMMENTS: | SAMPLE COLLECTION TIME: 11:14 | PREPARED BY: Jennifer Wilson

* 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.)	58.5
Initial tubing depth (ft.) BTOC	55.0
Final tubing depth (ft.) BTOC	56.0
Initial pump speed	7.1
Time pump speed was initialized	10:46
Pump speed at flow into cylinder	7.1
Started new roll of tubing at	
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	10:53	10:03	11:10						
Cummulative Volume (mL)	2000	4000	6000						

Additional remarks: well is bent approximately 1 ft below ground surface. probe had white/yellow soft material on tip after DTB reading

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-18

DATE: 9/4/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Scattered Cloudy, ~95°F, High humidity, slight breeze

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): 16.14 FT. | TIME: 15:40 | BTOC WELL SCREEN INTERVAL: 21.6 FT. to 31.6 FT.

HISTORICAL TOTAL WELL DEPTH (BGS): 32.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 32.8 FT. | FLUSH-TO-GRADE ~4 FT. 5.05

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 #: VDRV5DA9

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.)
15:52	0	29.39	6.64	42	1.63	5.5	4.62	16.15	Initial water in tube
15:57	1150	26.53	6.6	40	1.88	0.0	1.61	16.15	Was clear
16:02	2560	26.18	6.63	44	1.95	0.0	0.98	16.14	
16:07	4000	26.11	6.64	48	1.95	0.0	0.74	16.15	Slightly cloudy in cylinder.
									No bubbles in tube

COMMENTS:

SAMPLE COLLECTION TIME: 16:08

PREPARED BY: Jennifer Wilson

* 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.)	30.0
Initial tubing depth (ft.) BTOC	27.0
Final tubing depth (ft.) BTOC	27.0
Initial pump speed	7.06
Time pump speed was initialized	15:50
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	16:00	16:07							
Cummulative Volume (mL)	2000	4000							

Additional remarks: Inner Cap on well was ~~to~~ loose

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

9/4/2013

DATE: ~~4/3/2013~~	PROJECT NAME: GPA Bainbridge	WELL/SAMPLE NO:	MW-19
		PROJECT NO: 400007 - 4.5	

WEATHER CONDITIONS: sunrise, ~ 82°F, High humidity, no 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): 17.13 FT. TIME: 7:15 — BTOC WELL SCREEN INTERVAL: 21.65 FT. to 31.65 FT.

HISTORICAL TOTAL WELL DEPTH (BGS): 32.00 FT. — MEASURED TOTAL WELL DEPTH (BTOC) 32.04 FT. — FLUSH-TO-GRADE ~ 35 FT. ± .05

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.)
7:25	0	23.42	3.83	355	1.34	192	3.01	17.13	Initial water
7:30	1600	23.23	3.80	365	1.37	258	1.80	17.14	in tube is
7:35	2940	23.21	3.80	371	1.37	219	1.25	17.13	clear
7:41 ~~7:40~~	4520	23.28	3.80	376	1.38	174	0.93	17.13	
~~7:45~~	5600	23.25	3.80	379	1.38	145	0.85	17.13	Few bubbles
7:50	6920	23.26	3.80	381	1.38	111	0.79	17.13	in tube
7:55	8220	23.26	3.80	384	1.38	61.7	0.73	17.13	
									Water in
									cylinder is
									cloudy - white/gray
									tint

COMMENTS:

SAMPLE COLLECTION TIME: 7:56

PREPARED BY: ~~Patrick Ellyson~~ Jennifer Wilson

* 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.)	31.0
Initial tubing depth (ft.) BTOC	27.0
Final tubing depth (ft.) BTOC	27.0
Initial pump speed	Full
Time pump speed was initialized	7:21
Pump speed at flow into cylinder	7.11
Started new roll of tubing at	
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	7:31	7:39	7:48						
Cummulative Volume (mL)	2000	4000	6600						

* overflowed cylinder

Additional remarks: Bailed out approximately 3 inches of water in well vault. Initial water in cap was approx ½" above ~~well cap~~ inner well cap. Pressure was released when inner cap was removed

Matrix Spike sampled at 8:02

Soft Bottom of Well. Probe was clean

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-20

DATE: 9/5/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny, Scattered clouds, ~ 93°F, 8 mph West 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): 16.84 FT. | TIME: 13:55 | BTOC WELL SCREEN INTERVAL: ~~14.75~~ 21.75 FT. to 31.75 FT.

HISTORICAL TOTAL WELL DEPTH (BGS): 32.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 32.90 FT. | FLUSH-TO-GRADE ~.25 FT. F.05

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 #: VDRU5DA9

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.)
14:06	0	30.59	4.31	275	0.208	0.0	5.60	16.85	Initial water in
14:11	1280	25.14	4.1	290	0.209	0.0	4.53	16.85	tube was clear
14:16	2600	24.16	4.09	292	0.212	0.0	4.26	16.85	
14:21	3940	24.11	4.09	295	0.212	0.0	4.07	16.84	Few bubbles in tube
									Clear water in cylinder

COMMENTS:

SAMPLE COLLECTION TIME: 14:22

PREPARED BY: Jennifer Wilson

* 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.)	30.0
Initial tubing depth (ft.) BTOC	27.0
Final tubing depth (ft.) BTOC	27.0
Initial pump speed	7.01
Time pump speed was initialized	14:04
Pump speed at flow into cylinder	7.01
Started new roll of tubing at	
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	14:13	14:21							
Cummulative Volume (mL)	~~2000~~	4000							

Additional remarks: No Inner well cap when we opened ~~vault~~ well vault. Sulfur odor in air.

Place 2 inch PVC cap on well when finished. Cleaned dirt out of vault lid seal Could not get bolt all the way down

ENVIRONMENTAL INTERNATIONAL CORPORATION

PAGE 1 OF 1

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-21

DATE: 9/3/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Overcast, ~85° F, High humidity, ~5 mph South 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.

17.76 9/10/2013 A. Pfeiffer

INITIAL WATER LEVEL (BTOC): ~~18.76~~ FT. | TIME: 18:45 | BTOC WELL SCREEN INTERVAL: 21.925 FT. to 31.925 FT.

Gauged North side of pad

HISTORICAL TOTAL WELL DEPTH (BGS): 32.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 31.68 FT. | FLUSH-TO-GRADE ~.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 #: UDRU5049

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.)
18:56	0	23.92	5.06	213	0.170	152	6.87	17.78	Initial Water in
19:01	1180	22.57	5.09	214	0.180	131	5.74	17.78	tube is Clear
19:06	2340	22.44	5.13	214	0.183	102	5.32	17.77	
19:11	3500	22.39	5.12	217	0.182	64.4	5.21	17.78	Few bubbles in
19:16	4540	22.40	5.15	217	0.184	43.3	5.15	17.78	tube
									Cloudy water in
									cylinder with light
									brown tint.
									No order

COMMENTS:

SAMPLE COLLECTION TIME: 19:17

PREPARED BY: Jennifer Wilson

* 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.)	31.0
Initial tubing depth (ft.) BTOC	27.0
Final tubing depth (ft.) BTOC	27.0
Initial pump speed	7.12
Time pump speed was initialized	18:53
Pump speed at flow into cylinder	7.12
Started new roll of tubing at	
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	19:04	19:13							
Cummulative Volume (mL)	2000	4100							

Additional remarks: Bailed out approximately 2 inches. Good seal on inner well cap. (pressure was released when cap removed)

Bottom of well feels silty. No silt on probe

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-22

DATE: 4/5/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny, ~95°F, High humidity 5mph W wind

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): 19.13 FT. TIME: 14:49

BTOC WELL SCREEN INTERVAL: 23.8 FT. to 33.8 FT.

HISTORICAL TOTAL WELL DEPTH (BGS): 35.00 FT. MEASURED TOTAL WELL DEPTH (BTOC) 33.53 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 #: UDRUSD49

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.)
15:06	0	30.22	3.75	300	0.666	0.0	2.94	19.18	Some bubbles
15:11	1080	26.68	3.66	306	0.605	5.3	1.76	19.18	
15:16	2400	25.28	3.67	306	0.612	8.8	1.63	19.18	
15:21	3720	25.52	3.70	307	0.588	10.3	1.84	19.18	

COMMENTS:

SAMPLE COLLECTION TIME: 15:23

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.)	31.0
Initial tubing depth (ft.) BTOC	29.0
Final tubing depth (ft.) BTOC	29.0
Initial pump speed	6.98
Time pump speed was initialized	15:04
Pump speed at flow into cylinder	6.98
Started new roll of tubing at	
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	15:14	15:22							
Cummulative Volume (mL)	2000	4000							

Additional remarks: Matrix Spike was sampled at 15:31

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: Equipment Blank

DATE: 9/4/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Scattered clouds, ~55°F, High humidity, ~1-2 mph West wind

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

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

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

HISTORICAL TOTAL WELL DEPTH (BTOC): FT. | MEASURED TOTAL WELL DEPTH (BTOC) FT. | HEIGHT OF STICK-UP: 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 #: VDRVS D49

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: 19:19

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.)	9,35
Initial tubing depth (ft.) BTOC	
Final tubing depth (ft.) BTOC	
Initial pump speed	7.05
Time pump speed was initialized	19:19
Pump speed at flow into cylinder	7.08
Started new roll of tubing at	
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time									
Cummulative Volume (mL)									

Additional remarks: Used labatory supplied DI water

ATTACHMENT B

ATTACHMENT B

Analytical Report 469694

for

Environmental International Corporation

Project Manager: Alan Sanders

GPA Bainbridge

400007

09-SEP-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 (T104704215-13-14-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)

09-SEP-13

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

Reference: XENCO Report No(s): **469694**
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) 469694. 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. 469694 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 469694

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	09-03-13 10:28		469694-001
MW-1A	W	09-03-13 11:30		469694-002
MW-4U	W	09-03-13 09:35		469694-003
MW-11	W	09-03-13 08:08		469694-004
MW-14	W	09-03-13 14:23		469694-005
MW-6	W	09-03-13 15:25		469694-006
MW-6 Duplicate	W	09-03-13 15:34		469694-007

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:
Batch: LBA-922226 Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
SW9056

Batch 922226, Chloride, Sulfate recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 469694-001, -004, -003, -006, -007, -005, -002.
The Laboratory Control Sample for Chloride , Sulfate is within laboratory Control Limits

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 quantiation 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

Certificate of Analytical Results 469694

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-1** Matrix: Water Date Received:09.04.13 11.00

Lab Sample Id: 469694-001 Date Collected: 09.03.13 10.28

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 09.04.13 14.41

Seq Number: 922226

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7.40**	5.00	0.104	mg/L	09.04.13 18.56		1
Nitrate as N	14797-55-8	**6.01**	1.00	0.0240	mg/L	09.04.13 18.56		1
Sulfate	14808-79-8	**323**	50.0	1.68	mg/L	09.04.13 18.39	D	10

Certificate of Analytical Results 469694

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-1A** Matrix: Water Date Received:09.04.13 11.00

Lab Sample Id: 469694-002 Date Collected: 09.03.13 11.30

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 09.04.13 14.41

Seq Number: 922226

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.74**	5.00	0.104	mg/L	09.04.13 17.46		1
Nitrate as N	14797-55-8	**11.5**	10.0	0.240	mg/L	09.04.13 17.29	D	10
Sulfate	14808-79-8	**423**	50.0	1.68	mg/L	09.04.13 17.29	D	10

Certificate of Analytical Results 469694

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-4U** Matrix: Water Date Received:09.04.13 11.00

Lab Sample Id: 469694-003 Date Collected: 09.03.13 09.35

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 09.04.13 14.41

Seq Number: 922226

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6.57**	5.00	0.104	mg/L	09.04.13 17.11		1
Nitrate as N	14797-55-8	**8.37**	1.00	0.0240	mg/L	09.04.13 17.11		1
Sulfate	14808-79-8	**67.2**	50.0	1.68	mg/L	09.04.13 16.54	D	10

Certificate of Analytical Results 469694

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-11** Matrix: Water Date Received:09.04.13 11.00

Lab Sample Id: 469694-004 Date Collected: 09.03.13 08.08

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 09.04.13 14.41

Seq Number: 922226

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3.07**	5.00	0.104	mg/L	09.04.13 16.36	J	1
Nitrate as N	14797-55-8	**0.580**	1.00	0.0240	mg/L	09.04.13 16.36	J	1
Sulfate	14808-79-8	**44.1**	10.0	1.68	mg/L	09.04.13 16.19	D	10

Certificate of Analytical Results 469694

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-14** Matrix: Water Date Received:09.04.13 11.00

Lab Sample Id: 469694-005 Date Collected: 09.03.13 14.23

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 09.04.13 14.41

Seq Number: 922226

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2.39**	5.00	0.104	mg/L	09.04.13 19.31	J	1
Nitrate as N	14797-55-8	**0.0492**	1.00	0.0240	mg/L	09.04.13 19.31	J	1
Sulfate	14808-79-8	**1.57**	5.00	0.168	mg/L	09.04.13 19.31	J	1

Certificate of Analytical Results 469694

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-6** Matrix: Water Date Received:09.04.13 11.00

Lab Sample Id: 469694-006 Date Collected: 09.03.13 15.25

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 09.04.13 14.41

Seq Number: 922226

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**185**	50.0	1.04	mg/L	09.04.13 19.49	D	10
Nitrate as N	14797-55-8	**0.0556**	1.00	0.0240	mg/L	09.04.13 20.06	J	1
Sulfate	14808-79-8	**589**	125	4.20	mg/L	09.06.13 05.16	D	25

Certificate of Analytical Results 469694

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-6 Duplicate** Matrix: Water Date Received:09.04.13 11.00

Lab Sample Id: 469694-007 Date Collected: 09.03.13 15.34

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 09.04.13 14.41

Seq Number: 922226

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**194**	50.0	1.04	mg/L	09.04.13 20.24	DX	10
Nitrate as N	14797-55-8	**0.0966**	1.00	0.0240	mg/L	09.04.13 20.41	J	1
Sulfate	14808-79-8	**573**	125	4.20	mg/L	09.06.13 05.34	DX	25

Environmental International Corporation

GPA Bainbridge

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 922226 Matrix: Water Date Prep: 09.04.13
MB Sample Id: 643522-1-BLK LCS Sample Id: 643522-1-BKS LCSD Sample Id: 643522-1-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	10.4	104	10.3	103	80-120	1	15	mg/L	09.04.13 15:33	
Nitrate as N	<0.0240	1.00	1.09	109	1.07	107	80-120	2	15	mg/L	09.04.13 15:33	
Sulfate	<0.168	10.0	10.6	106	10.6	106	80-120	0	15	mg/L	09.04.13 15:33	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 922227 Matrix: Water Date Prep: 09.05.13
MB Sample Id: 643523-1-BLK LCS Sample Id: 643523-1-BKS LCSD Sample Id: 643523-1-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	9.24	92	9.14	91	80-120	1	15	mg/L	09.06.13 03:49	
Nitrate as N	<0.0240	1.00	0.938	94	0.947	95	80-120	1	15	mg/L	09.06.13 03:49	
Sulfate	<0.168	10.0	9.37	94	9.29	93	80-120	1	15	mg/L	09.06.13 03:49	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 922226 Matrix: Water Date Prep: 09.04.13
Parent Sample Id: 469694-007 MD Sample Id: 469694-007 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	237	238	0	15	mg/L	09.04.13 20:59	
Nitrate as N	0.0966	0.0939	3	15	mg/L	09.04.13 20:59	J
Sulfate	905	910	1	15	mg/L	09.04.13 20:59	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 922227 Matrix: Water Date Prep: 09.05.13
Parent Sample Id: 469773-006 MD Sample Id: 469773-006 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	4.42	4.43	0	15	mg/L	09.06.13 04:24	J
Nitrate as N	0.543	0.550	1	15	mg/L	09.06.13 04:24	J
Sulfate	3.55	3.47	2	15	mg/L	09.06.13 04:24	J

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 922226 Matrix: Water Date Prep: 09.04.13
Parent Sample Id: 469694-007 MS Sample Id: 469694-007 S MSD Sample Id: 469694-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	237	10.0	237	0	239	20	80-120	1	15	mg/L	09.04.13 21:16	X
Nitrate as N	0.0966	1.00	1.27	117	1.25	115	80-120	2	15	mg/L	09.04.13 21:16	
Sulfate	905	10.0	884	0	881	0	80-120	0	15	mg/L	09.04.13 21:16	X

QC Summary 469694

Environmental International Corporation

GPA Bainbridge

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

Seq Number: 922227 Matrix: Water Date Prep: 09.05.13

Parent Sample Id: 469773-006 MS Sample Id: 469773-006 S MSD Sample Id: 469773-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	4.42	10.0	14.1	97	14.1	97	80-120	0	15	mg/L	09.06.13 04:41	
Nitrate as N	0.543	1.00	1.51	97	1.48	94	80-120	2	15	mg/L	09.06.13 04:41	
Sulfate	3.55	10.0	13.4	99	13.4	99	80-120	0	15	mg/L	09.06.13 04:41	

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 #: 263924 Page of

Company-City	EIC	**Phone**	770-772-7100
Proj Name-Location ☐ Previously done at XENCO	GPA Bainbridge	**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:**	770-772-0558

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 Alan Sanders Signature

Lab Only: WO# 409004

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

From: Addn: 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	9056 A 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-1	9/3/13	10:28		W		X	1	O	P	C										✓				
2	MW-1A	9/3/13	11:30		W		X	1	O	P	C										✓				
3	MW-4U	9/3/13	9:35		W		X	1	O	P	C										✓				
4	MW-11	9/3/13	8:08		W		X	1	O	P	C										✓				
5	MW-14	9/3/13	14:23		W		X	1	O	P	C										✓				
6	MW-6	9/3/13	15:25		W		X	1	O	P	C										✓				
7	MW-6 Duplicate	9/3/13	15:34		W		X	1	O	P	C										✓				
8																									
9																									
10																								4.2° C	

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1)	9/3/2013 16:40	2)	9-4-13 11:00
3)		4)	
5)		6)	

Total Containers per COC: 7 Cooler Temp: 4.2

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.

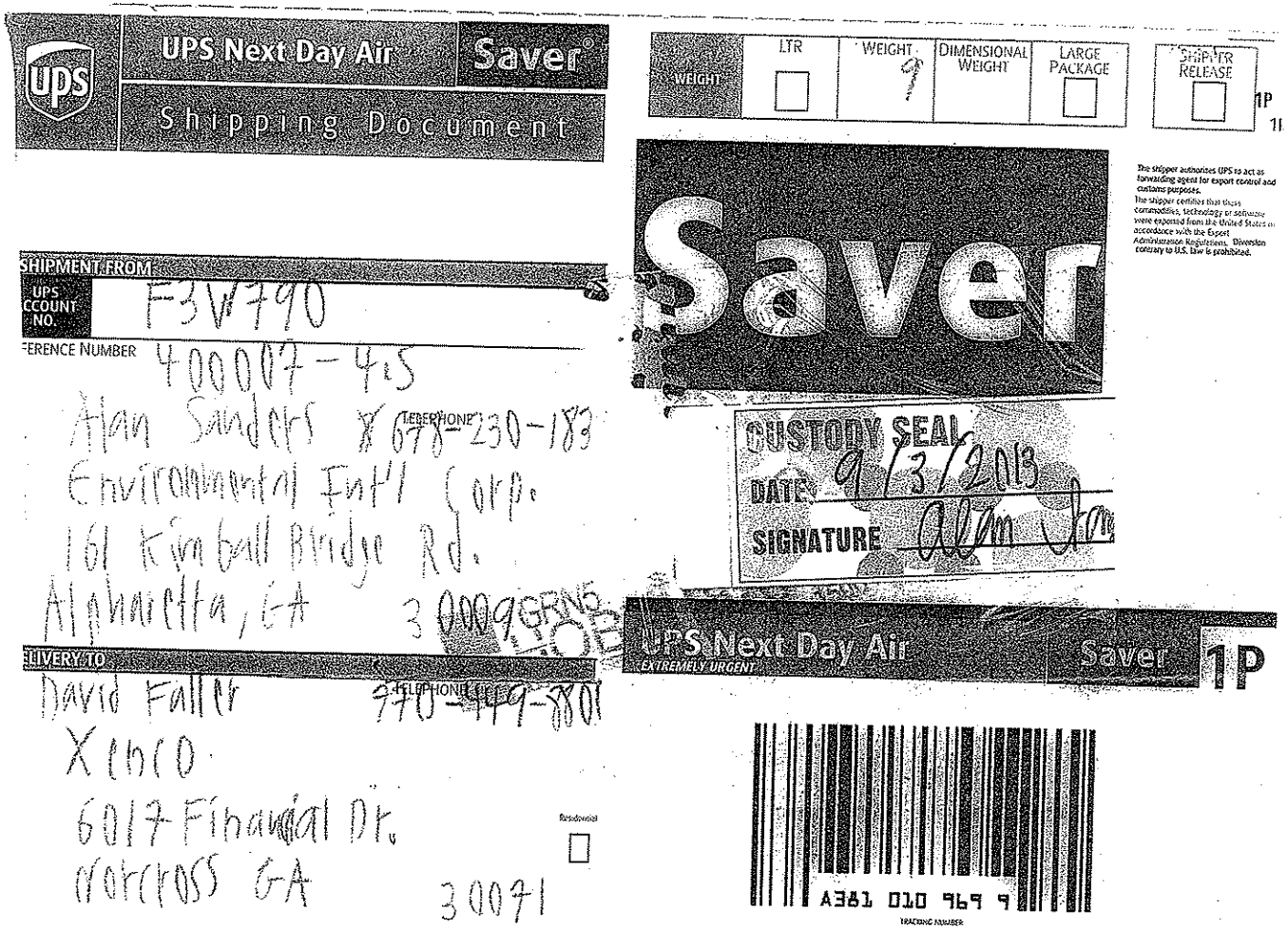
Preservatives: Various (**V**), HCl pH<2 (**H**), H2SO4 pH<2 (**S**), HNO3 pH<2 (**N**), Asbc Acid&NaOH (**A**), ZnAc&NaOH (**Z**), (Cool,<4C) (**C**), None (**NA**), See Label (**L**), Other (**O**) _____

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.



020195254 1/10 S

United Parcel Service, Louisville, KY

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Florida Testing Services, LLC

Client: Environmental International Corporation

Date/ Time Received: 09/04/2013 11:00:00 AM

Work Order #: 469694

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)?	4.2
#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: 09/04/2013

Checklist reviewed by: Eben Buchanan Date: 09/04/2013

Analytical Report 469746

for

Environmental International Corporation

Project Manager: Alan Sanders

GPA Bainbridge

400007

09-SEP-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 (T104704215-13-14-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)

09-SEP-13

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

Reference: XENCO Report No(s): **469746**
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) 469746. 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. 469746 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 469746

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-12	W	09-03-13 17:01		469746-001
MW-16	W	09-03-13 18:20		469746-002
MW-21	W	09-03-13 19:17		469746-003
MW-19	W	09-04-13 07:56		469746-004
MW-7	W	09-04-13 09:45		469746-005
MW-17	W	09-04-13 11:45		469746-006
MW-2	W	09-04-13 12:33		469746-007
MW-15	W	09-04-13 15:05		469746-008
MW-18	W	09-04-13 16:08		469746-009

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:
Batch: LBA-922318 Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A
SW9056

Batch 922318, Nitrate as N recovered below QC limits in the Matrix Spike.
Samples affected are: 469746-001.
The Laboratory Control Sample for Nitrate as N is within laboratory Control Limits

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 quantiation 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

Certificate of Analytical Results 469746

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-12** Matrix: Water Date Received:09.05.13 09.40

Lab Sample Id: 469746-001 Date Collected: 09.03.13 17.01

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 09.05.13 15.51

Seq Number: 922227

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**22.2**	5.00	0.104	mg/L	09.05.13 16.43		1
Nitrate as N	14797-55-8	**12.0**	10.0	0.240	mg/L	09.05.13 16.26	D	10
Sulfate	14808-79-8	**552**	125	4.20	mg/L	09.07.13 16.40	D	25

Certificate of Analytical Results 469746

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-16** Matrix: Water Date Received:09.05.13 09.40

Lab Sample Id: 469746-002 Date Collected: 09.03.13 18.20

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 09.05.13 15.51

Seq Number: 922227

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1.64**	5.00	0.104	mg/L	09.05.13 17.18	J	1
Nitrate as N	14797-55-8	**1.50**	1.00	0.0240	mg/L	09.05.13 17.18		1
Sulfate	14808-79-8	**1.51**	5.00	0.168	mg/L	09.05.13 17.18	J	1

Certificate of Analytical Results 469746

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-21** Matrix: Water Date Received:09.05.13 09.40

Lab Sample Id: 469746-003 Date Collected: 09.03.13 19.17

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 09.05.13 15.51

Seq Number: 922227

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5.77**	5.00	0.104	mg/L	09.05.13 17.53		1
Nitrate as N	14797-55-8	**0.647**	1.00	0.0240	mg/L	09.05.13 17.53	J	1
Sulfate	14808-79-8	**45.0**	5.00	0.168	mg/L	09.05.13 17.53		1

Certificate of Analytical Results 469746

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-19** Matrix: Water Date Received:09.05.13 09.40

Lab Sample Id: 469746-004 Date Collected: 09.04.13 07.56

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 09.05.13 15.51

Seq Number: 922227

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**29.0**	5.00	0.104	mg/L	09.05.13 18.28		1
Nitrate as N	14797-55-8	**97.8**	10.0	0.240	mg/L	09.05.13 18.11	D	10
Sulfate	14808-79-8	**151**	50.0	1.68	mg/L	09.05.13 18.11	D	10

Certificate of Analytical Results 469746

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-7** Matrix: Water Date Received:09.05.13 09.40

Lab Sample Id: 469746-005 Date Collected: 09.04.13 09.45

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 09.05.13 15.51

Seq Number: 922227

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**12.4**	5.00	0.104	mg/L	09.05.13 19.03		1
Nitrate as N	14797-55-8	**13.1**	10.0	0.240	mg/L	09.05.13 18.46	D	10
Sulfate	14808-79-8	**262**	50.0	1.68	mg/L	09.05.13 18.46	D	10

Certificate of Analytical Results 469746

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-17** Matrix: Water Date Received:09.05.13 09.40

Lab Sample Id: 469746-006 Date Collected: 09.04.13 11.45

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 09.05.13 15.51

Seq Number: 922227

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.99**	5.00	0.104	mg/L	09.05.13 20.13		1
Nitrate as N	14797-55-8	**3.62**	1.00	0.0240	mg/L	09.05.13 20.13		1
Sulfate	14808-79-8	**45.8**	5.00	0.168	mg/L	09.05.13 20.13		1

Certificate of Analytical Results 469746

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-2** Matrix: Water Date Received:09.05.13 09.40

Lab Sample Id: 469746-007 Date Collected: 09.04.13 12.33

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 09.05.13 15.51

Seq Number: 922227

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1.83**	5.00	0.104	mg/L	09.05.13 20.48	J	1
Nitrate as N	14797-55-8	**0.662**	1.00	0.0240	mg/L	09.05.13 20.48	J	1
Sulfate	14808-79-8	**7.88**	5.00	0.168	mg/L	09.05.13 20.48		1

Certificate of Analytical Results 469746

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-15** Matrix: Water Date Received:09.05.13 09.40

Lab Sample Id: 469746-008 Date Collected: 09.04.13 15.05

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 09.05.13 15.51

Seq Number: 922227

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**171**	50.0	1.04	mg/L	09.05.13 21.06	D	10
Nitrate as N	14797-55-8	**100**	10.0	0.240	mg/L	09.05.13 21.06	D	10
Sulfate	14808-79-8	**261**	50.0	1.68	mg/L	09.05.13 21.06	D	10

Certificate of Analytical Results 469746

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-18** Matrix: Water Date Received:09.05.13 09.40

Lab Sample Id: 469746-009 Date Collected: 09.04.13 16.08

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

Tech: BLF % Moisture:

Analyst: BLF Date Prep: 09.05.13 15.51

Seq Number: 922227

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**53.9**	50.0	1.04	mg/L	09.05.13 21.41	D	10
Nitrate as N	14797-55-8	**100**	10.0	0.240	mg/L	09.05.13 21.41	D	10
Sulfate	14808-79-8	**121**	50.0	1.68	mg/L	09.05.13 21.41	D	10

Environmental International Corporation

GPA Bainbridge

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 922227 Matrix: Water Date Prep: 09.05.13
MB Sample Id: 643523-1-BLK LCS Sample Id: 643523-1-BKS LCSD Sample Id: 643523-1-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	9.24	92	9.14	91	80-120	1	15	mg/L	09.06.13 03:49	
Nitrate as N	<0.0240	1.00	0.938	94	0.947	95	80-120	1	15	mg/L	09.06.13 03:49	
Sulfate	<0.168	10.0	9.37	94	9.29	93	80-120	1	15	mg/L	09.06.13 03:49	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 922318 Matrix: Water Date Prep: 09.07.13
MB Sample Id: 643577-1-BLK LCS Sample Id: 643577-1-BKS LCSD Sample Id: 643577-1-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	9.10	91	9.07	91	80-120	0	15	mg/L	09.07.13 16:05	
Nitrate as N	<0.0240	1.00	0.956	96	0.938	94	80-120	2	15	mg/L	09.07.13 16:05	
Sulfate	<0.168	10.0	9.25	93	9.01	90	80-120	3	15	mg/L	09.07.13 16:05	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 922227 Matrix: Water Date Prep: 09.05.13
Parent Sample Id: 469773-006 MD Sample Id: 469773-006 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	4.42	4.43	0	15	mg/L	09.06.13 04:24	J
Nitrate as N	0.543	0.550	1	15	mg/L	09.06.13 04:24	J
Sulfate	3.55	3.47	2	15	mg/L	09.06.13 04:24	J

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 922318 Matrix: Water Date Prep: 09.07.13
Parent Sample Id: 469864-019 MD Sample Id: 469864-019 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.3	10.0	3	15	mg/L	09.07.13 14:03	
Nitrate as N	2.87	2.86	0	15	mg/L	09.07.13 14:03	
Sulfate	1.35	1.35	0	15	mg/L	09.07.13 14:03	J

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 922227 Matrix: Water Date Prep: 09.05.13
Parent Sample Id: 469773-006 MS Sample Id: 469773-006 S MSD Sample Id: 469773-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	4.42	10.0	14.1	97	14.1	97	80-120	0	15	mg/L	09.06.13 04:41	
Nitrate as N	0.543	1.00	1.51	97	1.48	94	80-120	2	15	mg/L	09.06.13 04:41	
Sulfate	3.55	10.0	13.4	99	13.4	99	80-120	0	15	mg/L	09.06.13 04:41	

QC Summary 469746

Environmental International Corporation

GPA Bainbridge

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

Seq Number: 922318 Matrix: Water Date Prep: 09.07.13

Parent Sample Id: 469864-019 MS Sample Id: 469864-019 S MSD Sample Id: 469864-019 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.3	10.0	20.1	98	20.1	98	80-120	0	15	mg/L	09.07.13 14:20	
Nitrate as N	2.87	1.00	3.65	78	3.68	81	80-120	1	15	mg/L	09.07.13 14:20	X
Sulfate	1.35	10.0	9.87	85	10.0	87	80-120	1	15	mg/L	09.07.13 14:20	

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
☐ Philadelphia/New Jersey 610-955-5649
☐ South Carolina 803-543-8099 ☐ Other

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 263926 Page of

Company-City EIC	**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.

Lab Only: WO# 699746

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.

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 Alan Sanders Signature

	Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives
1	MW-12	9/3/2013	17:01		W		X	1	O	P	C
2	MW-16	9/3/2013	18:20		W		X	1	O	P	C
3	MW-21	9/3/2013	19:17		W		X	1	O	P	C
4	MW-19	9/4/2013	7:56		W		X	1	O	P	C
5	MW-7	9/4/2013	9:45		W		X	1	O	P	C
6	MW-17	9/4/2013	11:14		W		X	1	O	P	C
7	MW-2	9/4/2013	12:33		W		X	1	O	P	C
8	MW-15	9/4/2013	15:05		W		X	1	O	P	C
9	MW-18	9/4/2013	16:08		W		X	1	O	P	C
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
9056 A 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) AS	9/4/13 16:56	2)	9-5-13 9:40
3)		4)	
5)		6)	

Total Containers per COC: 9 Cooler Temp: 3.1 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 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.

CUSTODY SEAL
DATE 9/4/2013
SIGNATURE

QEC
Quality Environmental Containers

UPS Next Day Air®
UPS Worldwide Express℠
Shipping Document

WEIGHT	WEIGHT	DIMENSIONAL WEIGHT	LARGE PACKAGE	SHIPPER RELEASE
			☐	☐

1
1

☐ EXPRESS (INT'L)
☐ DOCUMENTS ONLY
☐ SATURDAY DELIVERY

The shipper authorizes UPS to act as forwarding agent for export control and customs purposes.
The shipper certifies that these commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

J222 787 948 1
J222 787 948 1

EXPORT
EXPORT

SHIPMENT FROM

UPS ACCOUNT NO. F3W790

REFERENCE NUMBER
900007-4.5

Alan Sanders 675-230-1827
Environmental Int'l Corp.
161 Kimball Bridge Rd.
Alpharetta, GA 30009

TELEPHONE

Fuller 770-449-7

UPS Next Day Air®

DELIVERY

J222 787 948 1
J222 787 948 1
TRACKING NUMBER

DATE OF SHIPMENT
9/4/2013

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Florida Testing Services, LLC

Client: Environmental International Corporation

Date/ Time Received: 09/05/2013 09:40:00 AM

Work Order #: 469746

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)?	3.1
#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?	**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: 09/05/2013

Checklist reviewed by: Eben Buchanan Date: 09/05/2013

Analytical Report 469854

for

Environmental International Corporation

Project Manager: Alan Sanders

Bainbridge, GA Site

400007-4.5

13-SEP-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 (T104704215-13-14-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

13-SEP-13

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

Reference: XENCO Report No(s): **469854**
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) 469854. 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. 469854 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 469854

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	09-03-13 10:28		469854-001
MW-1A	W	09-03-13 11:30		469854-002
MW-2	W	09-04-13 12:33		469854-003
MW-3	W	09-05-13 11:33		469854-004
MW-4U	W	09-03-13 09:35		469854-005
MW-5A	W	09-05-13 08:43		469854-006
MW-5D	W	09-04-13 18:58		469854-007
MW-6	W	09-03-13 15:25		469854-008
MW-7	W	09-04-13 09:45		469854-009
MW-8	W	09-04-13 17:09		469854-010
MW-10	W	09-05-13 07:44		469854-011
MW-11	W	09-03-13 08:08		469854-012
MW-12	W	09-03-13 17:01		469854-013
MW-13	W	09-05-13 10:12		469854-014
MW-14	W	09-03-13 14:23		469854-015
MW-15	W	09-04-13 15:05		469854-016
MW-16	W	09-03-13 18:20		469854-017
MW-17	W	09-04-13 11:14		469854-018
MW-18	W	09-04-13 16:08		469854-019
MW-19	W	09-04-13 07:56		469854-020
MW-20	W	09-05-13 14:22		469854-022
MW-21	W	09-03-13 19:17		469854-023
MW-22	W	09-05-13 15:23		469854-024
MW-6 Duplicate	W	09-03-13 15:34		469854-026
Equipment Blank	W	09-04-13 19:19		469854-027
MW-19 Matrix Spike	W	09-04-13 08:02		Not Analyzed
MW-22 Matrix Spike	W	09-05-13 15:31		Not Analyzed

Sample receipt non conformances and comments:

The RSK-175 analyses were not run due to client's request.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-922534 Pesticides by SW-846 8081B
SW8081B

Batch 922534, Decachlorobiphenyl recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 469854-020 S.

Batch: LBA-922561 Pesticides by SW-846 8081B
SW8081B

Batch 922561, Tetrachloro-m-xylene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 469854-024.

SW8081B

Batch 922561, Beta-BHC recovered below QC limits in the Matrix Spike. Heptachlor recovered above QC limits in the Matrix Spike.
Samples affected are: 469854-004, -024, -011, -022, -027, -014, -006.
The Laboratory Control Sample for Beta-BHC, Heptachlor is within laboratory Control Limits

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

Certificate of Analytical Results 469854

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-1** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-001 Date Collected: 09.03.13 10.28

Analytical Method: Total Organic Carbon by SW-846 9060

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 922532 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.80**	1.00	0.548	mg/L	09.11.13 13.16		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A

Tech: JDR % Moisture:

Analyst: 4150 Date Prep: 09.09.13 15.50

Seq Number: 922519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.533**	0.0500	0.000900	mg/L	09.11.13 16.57		1

Certificate of Analytical Results 469854

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-1** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-001 Date Collected: 09.03.13 10.28

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.06.13 11.45

Seq Number: 922534

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.13 19.48	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.13 19.48	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.13 19.48	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.13 19.48	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	09.09.13 19.48	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.13 19.48	U	1
Beta-BHC	319-85-7	U	0.0500	0.00230	ug/L	09.09.13 19.48	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.13 19.48	U	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.09.13 19.48	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.13 19.48	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.13 19.48	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.13 19.48	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.13 19.48	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.13 19.48	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.13 19.48	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.13 19.48	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	09.09.13 19.48	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.13 19.48	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.13 19.48	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.13 19.48	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.13 19.48	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.09.13 19.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	72	%	27-135	09.09.13 19.48	
Decachlorobiphenyl	2051-24-3	84	%	26-154	09.09.13 19.48	

Certificate of Analytical Results 469854

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-1A** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-002 Date Collected: 09.03.13 11.30

Analytical Method: Total Organic Carbon by SW-846 9060

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 922532 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.83**	1.00	0.548	mg/L	09.11.13 13.53		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A

Tech: JDR % Moisture:

Analyst: 4150 Date Prep: 09.09.13 15.50

Seq Number: 922519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**1.20**	0.0500	0.000900	mg/L	09.11.13 16.59		1

Certificate of Analytical Results 469854

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-1A** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-002 Date Collected: 09.03.13 11.30

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.06.13 11.45

Seq Number: 922534

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.13 20.05	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.13 20.05	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.13 20.05	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.13 20.05	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	09.09.13 20.05	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.13 20.05	U	1
Beta-BHC	319-85-7	U	0.0500	0.00230	ug/L	09.09.13 20.05	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.13 20.05	U	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.09.13 20.05	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.13 20.05	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.13 20.05	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.13 20.05	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.13 20.05	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.13 20.05	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.13 20.05	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.13 20.05	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	09.09.13 20.05	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.13 20.05	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.13 20.05	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.13 20.05	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.13 20.05	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.09.13 20.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	65	%	27-135	09.09.13 20.05	
Decachlorobiphenyl	2051-24-3	99	%	26-154	09.09.13 20.05	

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-2** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-003 Date Collected: 09.04.13 12.33

Analytical Method: Total Organic Carbon by SW-846 9060

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 922532 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.13**	1.00	0.548	mg/L	09.11.13 14.10		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A

Tech: JDR % Moisture:

Analyst: 4150 Date Prep: 09.09.13 15.50

Seq Number: 922519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.0260**	0.0500	0.000900	mg/L	09.11.13 17.01	J	1

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-2** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-003 Date Collected: 09.04.13 12.33

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.06.13 11.45

Seq Number: 922534

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.13 20.23	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.13 20.23	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.13 20.23	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.13 20.23	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	09.09.13 20.23	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.13 20.23	U	1
Beta-BHC	319-85-7	U	0.0500	0.00230	ug/L	09.09.13 20.23	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.13 20.23	U	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.09.13 20.23	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.13 20.23	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.13 20.23	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.13 20.23	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.13 20.23	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.13 20.23	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.13 20.23	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.13 20.23	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	09.09.13 20.23	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.13 20.23	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.13 20.23	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.13 20.23	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.13 20.23	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.09.13 20.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	70	%	27-135	09.09.13 20.23	
Decachlorobiphenyl	2051-24-3	85	%	26-154	09.09.13 20.23	

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-3** Matrix: Water Date Received:09.06.13 08.40
Lab Sample Id: 469854-004 Date Collected: 09.05.13 11.33

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 922532 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**0.844**	1.00	0.548	mg/L	09.11.13 14.27	J	1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: BLF % Moisture:
Analyst: BLF Date Prep: 09.06.13 14.25
Seq Number: 922301

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3.11**	5.00	0.104	mg/L	09.06.13 19.23	J	1
Nitrate as N	14797-55-8	**1.21**	1.00	0.0240	mg/L	09.06.13 19.23		1
Sulfate	14808-79-8	**6.09**	5.00	0.168	mg/L	09.06.13 19.23		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 09.09.13 15.50
Seq Number: 922519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.00940**	0.0500	0.000900	mg/L	09.11.13 17.03	J	1

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-3** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-004 Date Collected: 09.05.13 11.33

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.09.13 10.30

Seq Number: 922561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.10.13 04.17	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.10.13 04.17	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.10.13 04.17	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.10.13 04.17	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	09.10.13 04.17	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.10.13 04.17	U	1
Beta-BHC	319-85-7	U	0.0500	0.00230	ug/L	09.10.13 04.17	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.10.13 04.17	U	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.10.13 04.17	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.10.13 04.17	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.10.13 04.17	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.10.13 04.17	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.10.13 04.17	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.10.13 04.17	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.10.13 04.17	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.10.13 04.17	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	09.10.13 04.17	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.10.13 04.17	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.10.13 04.17	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.10.13 04.17	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.10.13 04.17	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.10.13 04.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	76	%	27-135	09.10.13 04.17	
Decachlorobiphenyl	2051-24-3	101	%	26-154	09.10.13 04.17	

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Sample Id: **MW-4U** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-005 Date Collected: 09.03.13 09.35

Analytical Method: Total Organic Carbon by SW-846 9060

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 922532 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.46**	1.00	0.548	mg/L	09.11.13 14.43		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A

Tech: JDR % Moisture:

Analyst: 4150 Date Prep: 09.09.13 15.50

Seq Number: 922519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.322**	0.0500	0.000900	mg/L	09.11.13 17.04		1

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-4U** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-005 Date Collected: 09.03.13 09.35

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.06.13 11.45

Seq Number: 922534

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.13 20.40	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.13 20.40	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.13 20.40	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.13 20.40	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	09.09.13 20.40	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.13 20.40	U	1
Beta-BHC	319-85-7	U	0.0500	0.00230	ug/L	09.09.13 20.40	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.13 20.40	U	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.09.13 20.40	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.13 20.40	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.13 20.40	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.13 20.40	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.13 20.40	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.13 20.40	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.13 20.40	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.13 20.40	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	09.09.13 20.40	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.13 20.40	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.13 20.40	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.13 20.40	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.13 20.40	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.09.13 20.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	78	%	27-135	09.09.13 20.40	
Decachlorobiphenyl	2051-24-3	89	%	26-154	09.09.13 20.40	

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Sample Id: **MW-5A** Matrix: Water Date Received:09.06.13 08.40
Lab Sample Id: 469854-006 Date Collected: 09.05.13 08.43

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 922532 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**0.894**	1.00	0.548	mg/L	09.11.13 15.00	J	1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: BLF % Moisture:
Analyst: BLF Date Prep: 09.06.13 14.25
Seq Number: 922301

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**14.8**	5.00	0.104	mg/L	09.06.13 17.38		1
Nitrate as N	14797-55-8	**11.0**	10.0	0.240	mg/L	09.06.13 17.20	D	10
Sulfate	14808-79-8	**28.6**	5.00	0.168	mg/L	09.06.13 17.38		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 09.09.13 15.50
Seq Number: 922519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.401**	0.0500	0.000900	mg/L	09.11.13 17.06		1

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Sample Id: **MW-5A** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-006 Date Collected: 09.05.13 08.43

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.09.13 10.30

Seq Number: 922561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.10.13 04.35	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.10.13 04.35	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.10.13 04.35	U	1
Aldrin	309-00-2	**0.0286**	0.0500	0.00260	ug/L	09.10.13 04.35	J	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	09.10.13 04.35	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.10.13 04.35	U	1
Beta-BHC	319-85-7	**0.389**	0.0500	0.00230	ug/L	09.10.13 04.35		1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.10.13 04.35	U	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.10.13 04.35	U	1
Dieldrin	60-57-1	**2.75**	0.500	0.0215	ug/L	09.10.13 15.27	D	5
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.10.13 04.35	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.10.13 04.35	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.10.13 04.35	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.10.13 04.35	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.10.13 04.35	U	1
Endrin Ketone	53494-70-5	**0.0398**	0.100	0.00450	ug/L	09.10.13 04.35	J	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	09.10.13 04.35	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.10.13 04.35	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.10.13 04.35	U	1
Heptachlor Epoxide	1024-57-3	**0.236**	0.0500	0.00280	ug/L	09.10.13 04.35		1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.10.13 04.35	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.10.13 04.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	89	%	27-135	09.10.13 04.35	
Decachlorobiphenyl	2051-24-3	100	%	26-154	09.10.13 04.35	

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Sample Id: **MW-5D** Matrix: Water Date Received:09.06.13 08.40
Lab Sample Id: 469854-007 Date Collected: 09.04.13 18.58

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 922532 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**2.09**	1.00	0.548	mg/L	09.11.13 16.06		1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: BLF % Moisture:
Analyst: BLF Date Prep: 09.06.13 14.25
Seq Number: 922301

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**52.8**	50.0	1.04	mg/L	09.06.13 15.35	D	10
Nitrate as N	14797-55-8	**11.3**	10.0	0.240	mg/L	09.06.13 15.35	D	10
Sulfate	14808-79-8	**110**	50.0	1.68	mg/L	09.06.13 15.35	D	10

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 09.09.13 15.50
Seq Number: 922519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.561**	0.0500	0.000900	mg/L	09.11.13 17.25		1

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-5D** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-007 Date Collected: 09.04.13 18.58

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.06.13 11.45

Seq Number: 922534

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.13 20.58	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.13 20.58	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.13 20.58	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.13 20.58	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	09.09.13 20.58	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.13 20.58	U	1
Beta-BHC	319-85-7	**0.120**	0.0500	0.00230	ug/L	09.09.13 20.58		1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.13 20.58	U	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.09.13 20.58	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.13 20.58	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.13 20.58	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.13 20.58	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.13 20.58	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.13 20.58	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.13 20.58	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.13 20.58	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	09.09.13 20.58	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.13 20.58	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.13 20.58	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.13 20.58	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.13 20.58	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.09.13 20.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	72	%	27-135	09.09.13 20.58	
Decachlorobiphenyl	2051-24-3	82	%	26-154	09.09.13 20.58	

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-6** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-008 Date Collected: 09.03.13 15.25

Analytical Method: Total Organic Carbon by SW-846 9060

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 922532 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.59**	1.00	0.548	mg/L	09.11.13 16.25		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A

Tech: JDR % Moisture:

Analyst: 4150 Date Prep: 09.09.13 15.50

Seq Number: 922519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**5.20**	0.0500	0.000900	mg/L	09.11.13 17.27		1

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-6** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-008 Date Collected: 09.03.13 15.25

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.06.13 11.45

Seq Number: 922534

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.13 21.16	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.13 21.16	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.13 21.16	U	1
Aldrin	309-00-2	**0.0106**	0.0500	0.00260	ug/L	09.09.13 21.16	J	1
Alpha-BHC	319-84-6	**1.51**	0.250	0.0505	ug/L	09.11.13 14.47	D	5
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.13 21.16	U	1
Beta-BHC	319-85-7	**1.61**	0.250	0.0115	ug/L	09.11.13 14.47	D	5
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.13 21.16	U	1
Delta-BHC	319-86-8	**2.33**	0.250	0.0100	ug/L	09.11.13 14.47	D	5
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.13 21.16	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.13 21.16	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.13 21.16	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.13 21.16	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.13 21.16	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.13 21.16	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.13 21.16	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0143**	0.0500	0.00160	ug/L	09.09.13 21.16	J	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.13 21.16	U	1
Heptachlor	76-44-8	**2.22**	0.250	0.0145	ug/L	09.11.13 14.47	D	5
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.13 21.16	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.13 21.16	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.09.13 21.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	78	%	27-135	09.09.13 21.16	
Decachlorobiphenyl	2051-24-3	71	%	26-154	09.09.13 21.16	

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-7** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-009 Date Collected: 09.04.13 09.45

Analytical Method: Total Organic Carbon by SW-846 9060

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 922532 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**4.23**	1.00	0.548	mg/L	09.11.13 17.19		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A

Tech: JDR % Moisture:

Analyst: 4150 Date Prep: 09.09.13 15.50

Seq Number: 922519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**6.90**	0.0500	0.000900	mg/L	09.11.13 17.29		1

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-7** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-009 Date Collected: 09.04.13 09.45

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.06.13 11.45

Seq Number: 922534

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.13 21.33	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.13 21.33	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.13 21.33	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.13 21.33	U	1
Alpha-BHC	319-84-6	**0.0613**	0.0500	0.0101	ug/L	09.09.13 21.33		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.13 21.33	U	1
Beta-BHC	319-85-7	**0.365**	0.0500	0.00230	ug/L	09.09.13 21.33		1
Chlordane	12789-03-6	**0.812**	0.500	0.0963	ug/L	09.09.13 21.33		1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.09.13 21.33	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.13 21.33	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.13 21.33	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.13 21.33	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.13 21.33	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.13 21.33	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.13 21.33	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.13 21.33	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0332**	0.0500	0.00160	ug/L	09.09.13 21.33	J	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.13 21.33	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.13 21.33	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.13 21.33	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.13 21.33	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.09.13 21.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	79	%	27-135	09.09.13 21.33	
Decachlorobiphenyl	2051-24-3	43	%	26-154	09.09.13 21.33	

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-8** Matrix: Water Date Received:09.06.13 08.40
Lab Sample Id: 469854-010 Date Collected: 09.04.13 17.09

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 922532 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.37**	1.00	0.548	mg/L	09.11.13 17.38		1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: BLF % Moisture:
Analyst: BLF Date Prep: 09.06.13 14.25
Seq Number: 922301

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**19.0**	5.00	0.104	mg/L	09.06.13 15.18		1
Nitrate as N	14797-55-8	**10.5**	10.0	0.240	mg/L	09.06.13 15.00	D	10
Sulfate	14808-79-8	**428**	50.0	1.68	mg/L	09.06.13 15.00	D	10

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 09.09.13 15.50
Seq Number: 922519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.819**	0.0500	0.000900	mg/L	09.11.13 17.31		1

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-8** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-010 Date Collected: 09.04.13 17.09

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.06.13 11.45

Seq Number: 922534

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.13 21.51	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.13 21.51	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.13 21.51	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.13 21.51	U	1
Alpha-BHC	319-84-6	**0.162**	0.0500	0.0101	ug/L	09.09.13 21.51		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.13 21.51	U	1
Beta-BHC	319-85-7	**1.68**	0.250	0.0115	ug/L	09.10.13 18.41	D	5
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.13 21.51	U	1
Delta-BHC	319-86-8	**0.112**	0.0500	0.00200	ug/L	09.09.13 21.51		1
Dieldrin	60-57-1	**0.00961**	0.100	0.00430	ug/L	09.09.13 21.51	J	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.13 21.51	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.13 21.51	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.13 21.51	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.13 21.51	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.13 21.51	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.13 21.51	U	1
Gamma-BHC (Lindane)	58-89-9	**0.108**	0.0500	0.00160	ug/L	09.09.13 21.51		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.13 21.51	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.13 21.51	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.13 21.51	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.13 21.51	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.09.13 21.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	82	%	27-135	09.09.13 21.51	
Decachlorobiphenyl	2051-24-3	91	%	26-154	09.09.13 21.51	

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Bainbridge, GA Site

Sample Id: **MW-10** Matrix: Water Date Received:09.06.13 08.40
Lab Sample Id: 469854-011 Date Collected: 09.05.13 07.44

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 922532 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**2.63**	1.00	0.548	mg/L	09.11.13 17.55		1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: BLF % Moisture:
Analyst: BLF Date Prep: 09.06.13 14.25
Seq Number: 922301

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**34.6**	5.00	0.104	mg/L	09.06.13 17.03		1
Nitrate as N	14797-55-8	**4.19**	1.00	0.0240	mg/L	09.06.13 17.03		1
Sulfate	14808-79-8	**348**	50.0	1.68	mg/L	09.06.13 16.45	D	10

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 09.09.13 15.50
Seq Number: 922519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.948**	0.0500	0.000900	mg/L	09.11.13 17.33		1

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Environmental International Corporation, Alpharetta, GA

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Sample Id: **MW-10** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-011 Date Collected: 09.05.13 07.44

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.09.13 10.30

Seq Number: 922561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.10.13 04.52	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.10.13 04.52	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.10.13 04.52	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.10.13 04.52	U	1
Alpha-BHC	319-84-6	**0.650**	0.0500	0.0101	ug/L	09.10.13 04.52		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.10.13 04.52	U	1
Beta-BHC	319-85-7	**8.60**	1.00	0.0460	ug/L	09.10.13 15.45	D	20
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.10.13 04.52	U	1
Delta-BHC	319-86-8	**0.511**	0.0500	0.00200	ug/L	09.10.13 04.52		1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.10.13 04.52	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.10.13 04.52	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.10.13 04.52	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.10.13 04.52	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.10.13 04.52	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.10.13 04.52	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.10.13 04.52	U	1
Gamma-BHC (Lindane)	58-89-9	**0.307**	0.0500	0.00160	ug/L	09.10.13 04.52		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.10.13 04.52	U	1
Heptachlor	76-44-8	**0.346**	0.0500	0.00290	ug/L	09.10.13 04.52		1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.10.13 04.52	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.10.13 04.52	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.10.13 04.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	87	%	27-135	09.10.13 04.52	
Decachlorobiphenyl	2051-24-3	100	%	26-154	09.10.13 04.52	

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Environmental International Corporation, Alpharetta, GA

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Sample Id: **MW-11** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-012 Date Collected: 09.03.13 08.08

Analytical Method: Total Organic Carbon by SW-846 9060

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 922532 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**3.07**	1.00	0.548	mg/L	09.11.13 18.33		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A

Tech: JDR % Moisture:

Analyst: 4150 Date Prep: 09.09.13 15.50

Seq Number: 922519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.0242**	0.0500	0.000900	mg/L	09.11.13 17.35	J	1

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-11** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-012 Date Collected: 09.03.13 08.08

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.06.13 11.45

Seq Number: 922534

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.13 22.08	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.13 22.08	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.13 22.08	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.13 22.08	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	09.09.13 22.08	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.13 22.08	U	1
Beta-BHC	319-85-7	U	0.0500	0.00230	ug/L	09.09.13 22.08	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.13 22.08	U	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.09.13 22.08	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.13 22.08	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.13 22.08	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.13 22.08	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.13 22.08	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.13 22.08	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.13 22.08	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.13 22.08	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	09.09.13 22.08	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.13 22.08	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.13 22.08	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.13 22.08	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.13 22.08	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.09.13 22.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	60	%	27-135	09.09.13 22.08	
Decachlorobiphenyl	2051-24-3	85	%	26-154	09.09.13 22.08	

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-12** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-013 Date Collected: 09.03.13 17.01

Analytical Method: Total Organic Carbon by SW-846 9060

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 922532 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.36**	1.00	0.548	mg/L	09.11.13 18.50		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A

Tech: JDR % Moisture:

Analyst: 4150 Date Prep: 09.09.13 15.50

Seq Number: 922519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.0418**	0.0500	0.000900	mg/L	09.11.13 17.37	J	1

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-12** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-013 Date Collected: 09.03.13 17.01

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.06.13 11.45

Seq Number: 922534

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.13 22.26	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.13 22.26	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.13 22.26	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.13 22.26	U	1
Alpha-BHC	319-84-6	**0.0146**	0.0500	0.0101	ug/L	09.09.13 22.26	J	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.13 22.26	U	1
Beta-BHC	319-85-7	**0.847**	0.0500	0.00230	ug/L	09.09.13 22.26		1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.13 22.26	U	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.09.13 22.26	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.13 22.26	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.13 22.26	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.13 22.26	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.13 22.26	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.13 22.26	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.13 22.26	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.13 22.26	U	1
Gamma-BHC (Lindane)	58-89-9	**0.00783**	0.0500	0.00160	ug/L	09.09.13 22.26	J	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.13 22.26	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.13 22.26	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.13 22.26	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.13 22.26	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.09.13 22.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	80	%	27-135	09.09.13 22.26	
Decachlorobiphenyl	2051-24-3	96	%	26-154	09.09.13 22.26	

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-13** Matrix: Water Date Received:09.06.13 08.40
Lab Sample Id: 469854-014 Date Collected: 09.05.13 10.12

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 922532 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.85**	1.00	0.548	mg/L	09.11.13 19.07		1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: BLF % Moisture:
Analyst: BLF Date Prep: 09.06.13 14.25
Seq Number: 922301

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**25.7**	5.00	0.104	mg/L	09.06.13 18.48		1
Nitrate as N	14797-55-8	**3.26**	1.00	0.0240	mg/L	09.06.13 18.48		1
Sulfate	14808-79-8	**121**	50.0	1.68	mg/L	09.06.13 18.30	D	10

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 09.09.13 15.50
Seq Number: 922519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.365**	0.0500	0.000900	mg/L	09.11.13 17.39		1

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-13** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-014 Date Collected: 09.05.13 10.12

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.09.13 10.30

Seq Number: 922561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.10.13 05.10	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.10.13 05.10	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.10.13 05.10	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.10.13 05.10	U	1
Alpha-BHC	319-84-6	**0.0516**	0.0500	0.0101	ug/L	09.10.13 05.10		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.10.13 05.10	U	1
Beta-BHC	319-85-7	**6.36**	1.00	0.0460	ug/L	09.10.13 16.02	D	20
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.10.13 05.10	U	1
Delta-BHC	319-86-8	**0.0849**	0.0500	0.00200	ug/L	09.10.13 05.10		1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.10.13 05.10	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.10.13 05.10	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.10.13 05.10	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.10.13 05.10	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.10.13 05.10	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.10.13 05.10	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.10.13 05.10	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0307**	0.0500	0.00160	ug/L	09.10.13 05.10	J	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.10.13 05.10	U	1
Heptachlor	76-44-8	**0.454**	0.0500	0.00290	ug/L	09.10.13 05.10		1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.10.13 05.10	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.10.13 05.10	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.10.13 05.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	68	%	27-135	09.10.13 05.10	
Decachlorobiphenyl	2051-24-3	71	%	26-154	09.10.13 05.10	

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Sample Id: **MW-14** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-015 Date Collected: 09.03.13 14.23

Analytical Method: Total Organic Carbon by SW-846 9060

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 922532 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.79**	1.00	0.548	mg/L	09.11.13 19.42		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A

Tech: JDR % Moisture:

Analyst: 4150 Date Prep: 09.09.13 15.50

Seq Number: 922519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.352**	0.0500	0.000900	mg/L	09.11.13 17.41		1

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-14** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-015 Date Collected: 09.03.13 14.23

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.06.13 11.45

Seq Number: 922534

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.13 23.36	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.13 23.36	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.13 23.36	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.13 23.36	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	09.09.13 23.36	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.13 23.36	U	1
Beta-BHC	319-85-7	U	0.0500	0.00230	ug/L	09.09.13 23.36	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.13 23.36	U	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.09.13 23.36	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.13 23.36	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.13 23.36	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.13 23.36	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.13 23.36	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.13 23.36	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.13 23.36	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.13 23.36	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	09.09.13 23.36	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.13 23.36	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.13 23.36	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.13 23.36	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.13 23.36	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.09.13 23.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	74	%	27-135	09.09.13 23.36	
Decachlorobiphenyl	2051-24-3	77	%	26-154	09.09.13 23.36	

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Sample Id: **MW-15** Matrix: Water Date Received:09.06.13 08.40
Lab Sample Id: 469854-016 Date Collected: 09.04.13 15.05

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 922569 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**56.5**	10.0	5.48	mg/L	09.12.13 10.47		10

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 09.09.13 15.50
Seq Number: 922519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**1.14**	0.0500	0.000900	mg/L	09.11.13 17.43		1

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Sample Id: **MW-15** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-016 Date Collected: 09.04.13 15.05

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.06.13 11.45

Seq Number: 922534

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.13 23.54	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.13 23.54	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.13 23.54	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.13 23.54	U	1
Alpha-BHC	319-84-6	**0.0570**	0.0500	0.0101	ug/L	09.09.13 23.54		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.13 23.54	U	1
Beta-BHC	319-85-7	**0.221**	0.0500	0.00230	ug/L	09.09.13 23.54		1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.13 23.54	U	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.09.13 23.54	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.13 23.54	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.13 23.54	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.13 23.54	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.13 23.54	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.13 23.54	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.13 23.54	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.13 23.54	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0245**	0.0500	0.00160	ug/L	09.09.13 23.54	J	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.13 23.54	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.13 23.54	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.13 23.54	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.13 23.54	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.09.13 23.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	70	%	27-135	09.09.13 23.54	
Decachlorobiphenyl	2051-24-3	44	%	26-154	09.09.13 23.54	

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Sample Id: **MW-16** Matrix: Water Date Received:09.06.13 08.40
Lab Sample Id: 469854-017 Date Collected: 09.03.13 18.20

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 922533 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**3.49**	1.00	0.548	mg/L	09.11.13 22.35		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 09.09.13 15.50
Seq Number: 922519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.0751**	0.0500	0.000900	mg/L	09.11.13 17.52		1

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Environmental International Corporation, Alpharetta, GA

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Sample Id: **MW-16** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-017 Date Collected: 09.03.13 18.20

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.06.13 11.45

Seq Number: 922534

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.10.13 00.11	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.10.13 00.11	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.10.13 00.11	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.10.13 00.11	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	09.10.13 00.11	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.10.13 00.11	U	1
Beta-BHC	319-85-7	U	0.0500	0.00230	ug/L	09.10.13 00.11	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.10.13 00.11	U	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.10.13 00.11	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.10.13 00.11	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.10.13 00.11	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.10.13 00.11	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.10.13 00.11	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.10.13 00.11	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.10.13 00.11	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.10.13 00.11	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	09.10.13 00.11	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.10.13 00.11	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.10.13 00.11	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.10.13 00.11	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.10.13 00.11	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.10.13 00.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	74	%	27-135	09.10.13 00.11	
Decachlorobiphenyl	2051-24-3	79	%	26-154	09.10.13 00.11	

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-17** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-018 Date Collected: 09.04.13 11.14

Analytical Method: Total Organic Carbon by SW-846 9060

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 922533 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.55**	1.00	0.548	mg/L	09.11.13 23.01		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A

Tech: JDR % Moisture:

Analyst: 4150 Date Prep: 09.09.13 15.50

Seq Number: 922519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.147**	0.0500	0.000900	mg/L	09.11.13 17.54		1

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-17** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-018 Date Collected: 09.04.13 11.14

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.06.13 11.45

Seq Number: 922534

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.10.13 00.29	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.10.13 00.29	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.10.13 00.29	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.10.13 00.29	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	09.10.13 00.29	U	1
Alpha-Chlordane	5103-71-9	**0.00588**	0.0500	0.00220	ug/L	09.10.13 00.29	J	1
Beta-BHC	319-85-7	**0.390**	0.0500	0.00230	ug/L	09.10.13 00.29		1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.10.13 00.29	U	1
Delta-BHC	319-86-8	**0.0162**	0.0500	0.00200	ug/L	09.10.13 00.29	J	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.10.13 00.29	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.10.13 00.29	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.10.13 00.29	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.10.13 00.29	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.10.13 00.29	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.10.13 00.29	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.10.13 00.29	U	1
Gamma-BHC (Lindane)	58-89-9	**0.00748**	0.0500	0.00160	ug/L	09.10.13 00.29	J	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.10.13 00.29	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.10.13 00.29	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.10.13 00.29	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.10.13 00.29	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.10.13 00.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	92	%	27-135	09.10.13 00.29	
Decachlorobiphenyl	2051-24-3	108	%	26-154	09.10.13 00.29	

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Bainbridge, GA Site

Sample Id: **MW-18** Matrix: Water Date Received:09.06.13 08.40
Lab Sample Id: 469854-019 Date Collected: 09.04.13 16.08

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 922533 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**2.73**	1.00	0.548	mg/L	09.11.13 23.19		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 09.09.13 15.50
Seq Number: 922519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**1.35**	0.0500	0.000900	mg/L	09.11.13 17.56		1

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-18** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-019 Date Collected: 09.04.13 16.08

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.06.13 11.45

Seq Number: 922534

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.10.13 00.46	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.10.13 00.46	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.10.13 00.46	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.10.13 00.46	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	09.10.13 00.46	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.10.13 00.46	U	1
Beta-BHC	319-85-7	**0.409**	0.0500	0.00230	ug/L	09.10.13 00.46		1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.10.13 00.46	U	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.10.13 00.46	U	1
Dieldrin	60-57-1	**0.00680**	0.100	0.00430	ug/L	09.10.13 00.46	J	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.10.13 00.46	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.10.13 00.46	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.10.13 00.46	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.10.13 00.46	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.10.13 00.46	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.10.13 00.46	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	09.10.13 00.46	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.10.13 00.46	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.10.13 00.46	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.10.13 00.46	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.10.13 00.46	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.10.13 00.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	70	%	27-135	09.10.13 00.46	
Decachlorobiphenyl	2051-24-3	88	%	26-154	09.10.13 00.46	

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-19** Matrix: Water Date Received:09.06.13 08.40
Lab Sample Id: 469854-020 Date Collected: 09.04.13 07.56

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 922533 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	09.11.13 23.38		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 09.09.13 16.14
Seq Number: 922536

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.945**	0.0500	0.000900	mg/L	09.11.13 18.10		1

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-19** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-020 Date Collected: 09.04.13 07.56

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.06.13 11.45

Seq Number: 922534

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.10.13 01.04	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.10.13 01.04	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.10.13 01.04	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.10.13 01.04	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	09.10.13 01.04	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.10.13 01.04	U	1
Beta-BHC	319-85-7	U	0.0500	0.00230	ug/L	09.10.13 01.04	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.10.13 01.04	U	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.10.13 01.04	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.10.13 01.04	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.10.13 01.04	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.10.13 01.04	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.10.13 01.04	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.10.13 01.04	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.10.13 01.04	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.10.13 01.04	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	09.10.13 01.04	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.10.13 01.04	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.10.13 01.04	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.10.13 01.04	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.10.13 01.04	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.10.13 01.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	71	%	27-135	09.10.13 01.04	
Decachlorobiphenyl	2051-24-3	68	%	26-154	09.10.13 01.04	

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Bainbridge, GA Site

Sample Id: **MW-20** Matrix: Water Date Received:09.06.13 08.40
Lab Sample Id: 469854-022 Date Collected: 09.05.13 14.22

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 922533 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.53**	1.00	0.548	mg/L	09.12.13 00.16		1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: BLF % Moisture:
Analyst: BLF Date Prep: 09.06.13 14.25
Seq Number: 922301

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.46**	5.00	0.104	mg/L	09.06.13 19.58		1
Nitrate as N	14797-55-8	**2.55**	1.00	0.0240	mg/L	09.06.13 19.58		1
Sulfate	14808-79-8	**54.0**	50.0	1.68	mg/L	09.06.13 19.40	D	10

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 09.09.13 16.14
Seq Number: 922536

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.748**	0.0500	0.000900	mg/L	09.11.13 18.27		1

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-20** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-022 Date Collected: 09.05.13 14.22

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.09.13 10.30

Seq Number: 922561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.10.13 05.27	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.10.13 05.27	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.10.13 05.27	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.10.13 05.27	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	09.10.13 05.27	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.10.13 05.27	U	1
Beta-BHC	319-85-7	**2.21**	0.500	0.0230	ug/L	09.10.13 16.20	D	10
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.10.13 05.27	U	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.10.13 05.27	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.10.13 05.27	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.10.13 05.27	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.10.13 05.27	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.10.13 05.27	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.10.13 05.27	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.10.13 05.27	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.10.13 05.27	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	09.10.13 05.27	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.10.13 05.27	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.10.13 05.27	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.10.13 05.27	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.10.13 05.27	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.10.13 05.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	52	%	27-135	09.10.13 05.27	
Decachlorobiphenyl	2051-24-3	69	%	26-154	09.10.13 05.27	

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Bainbridge, GA Site

Sample Id: **MW-21** Matrix: Water Date Received:09.06.13 08.40
Lab Sample Id: 469854-023 Date Collected: 09.03.13 19.17

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 922533 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.85**	1.00	0.548	mg/L	09.12.13 01.24		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 09.09.13 16.14
Seq Number: 922536

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.528**	0.0500	0.000900	mg/L	09.11.13 18.29		1

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-21** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-023 Date Collected: 09.03.13 19.17

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.06.13 11.45

Seq Number: 922534

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.10.13 01.39	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.10.13 01.39	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.10.13 01.39	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.10.13 01.39	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	09.10.13 01.39	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.10.13 01.39	U	1
Beta-BHC	319-85-7	**0.286**	0.0500	0.00230	ug/L	09.10.13 01.39		1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.10.13 01.39	U	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.10.13 01.39	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.10.13 01.39	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.10.13 01.39	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.10.13 01.39	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.10.13 01.39	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.10.13 01.39	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.10.13 01.39	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.10.13 01.39	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	09.10.13 01.39	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.10.13 01.39	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.10.13 01.39	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.10.13 01.39	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.10.13 01.39	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.10.13 01.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	63	%	27-135	09.10.13 01.39	
Decachlorobiphenyl	2051-24-3	82	%	26-154	09.10.13 01.39	

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-22** Matrix: Water Date Received:09.06.13 08.40
Lab Sample Id: 469854-024 Date Collected: 09.05.13 15.23

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 922533 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**2.29**	1.00	0.548	mg/L	09.12.13 01.41		1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: BLF % Moisture:
Analyst: BLF Date Prep: 09.06.13 14.25
Seq Number: 922301

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6.47**	5.00	0.104	mg/L	09.06.13 20.33		1
Nitrate as N	14797-55-8	**1.84**	1.00	0.0240	mg/L	09.06.13 20.33		1
Sulfate	14808-79-8	**273**	50.0	1.68	mg/L	09.06.13 20.15	D	10

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 09.09.13 16.14
Seq Number: 922536

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**0.360**	0.0500	0.000900	mg/L	09.11.13 18.30		1

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-22** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-024 Date Collected: 09.05.13 15.23

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.09.13 10.30

Seq Number: 922561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	**0.0388**	0.100	0.00370	ug/L	09.10.13 05.45	J	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.10.13 05.45	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.10.13 05.45	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.10.13 05.45	U	1
Alpha-BHC	319-84-6	**1.10**	0.250	0.0505	ug/L	09.10.13 16.55	D	5
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.10.13 05.45	U	1
Beta-BHC	319-85-7	**33.7**	5.00	0.230	ug/L	09.10.13 17.13	DX	100
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.10.13 05.45	U	1
Delta-BHC	319-86-8	**0.725**	0.0500	0.00200	ug/L	09.10.13 05.45		1
Dieldrin	60-57-1	**0.0521**	0.100	0.00430	ug/L	09.10.13 05.45	J	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.10.13 05.45	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.10.13 05.45	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.10.13 05.45	U	1
Endrin	72-20-8	**0.0637**	0.100	0.00460	ug/L	09.10.13 05.45	J	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.10.13 05.45	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.10.13 05.45	U	1
Gamma-BHC (Lindane)	58-89-9	**0.382**	0.0500	0.00160	ug/L	09.10.13 05.45		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.10.13 05.45	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.10.13 05.45	UX	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.10.13 05.45	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.10.13 05.45	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.10.13 05.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	77	%	27-135	09.10.13 05.45	
Decachlorobiphenyl	2051-24-3	84	%	26-154	09.10.13 05.45	

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-6 Duplicate** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-026 Date Collected: 09.03.13 15.34

Analytical Method: Total Organic Carbon by SW-846 9060

Tech: RKO % Moisture:

Analyst: RKO

Seq Number: 922533 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	**1.57**	1.00	0.548	mg/L	09.12.13 02.19		1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A

Tech: JDR % Moisture:

Analyst: 4150 Date Prep: 09.09.13 16.14

Seq Number: 922536

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	**5.30**	0.0500	0.000900	mg/L	09.11.13 18.32		1

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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-6 Duplicate**
Lab Sample Id: 469854-026
Matrix: Water
Date Collected: 09.03.13 15.34
Date Received:09.06.13 08.40

Analytical Method: Pesticides by SW-846 8081B
Tech: BRO
Analyst: CLAR
Seq Number: 922534
Prep Method: SW3510C
% Moisture:
Date Prep: 09.06.13 11.45

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.10.13 02.14	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.10.13 02.14	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.10.13 02.14	U	1
Aldrin	309-00-2	**0.0248**	0.0500	0.00260	ug/L	09.10.13 02.14	J	1
Alpha-BHC	319-84-6	**1.63**	0.250	0.0505	ug/L	09.10.13 15.09	D	5
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.10.13 02.14	U	1
Beta-BHC	319-85-7	**1.79**	0.250	0.0115	ug/L	09.10.13 15.09	D	5
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.10.13 02.14	U	1
Delta-BHC	319-86-8	**2.44**	0.250	0.0100	ug/L	09.10.13 15.09	D	5
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.10.13 02.14	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.10.13 02.14	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.10.13 02.14	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.10.13 02.14	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.10.13 02.14	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.10.13 02.14	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.10.13 02.14	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0150**	0.0500	0.00160	ug/L	09.10.13 02.14	J	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.10.13 02.14	U	1
Heptachlor	76-44-8	**2.52**	0.250	0.0145	ug/L	09.10.13 15.09	D	5
Heptachlor Epoxide	1024-57-3	**1.20**	0.250	0.0140	ug/L	09.10.13 15.09	D	5
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.10.13 02.14	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.10.13 02.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	79	%	27-135	09.10.13 02.14	
Decachlorobiphenyl	2051-24-3	69	%	26-154	09.10.13 02.14	

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **Equipment Blank** Matrix: Water Date Received:09.06.13 08.40
Lab Sample Id: 469854-027 Date Collected: 09.04.13 19.19

Analytical Method: Total Organic Carbon by SW-846 9060
Tech: RKO % Moisture:
Analyst: RKO
Seq Number: 922533 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Total Organic Carbon	7440-44-0	U	1.00	0.548	mg/L	09.12.13 02.40	U	1

Analytical Method: Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A Prep Method: SW9056P
Tech: BLF % Moisture:
Analyst: BLF Date Prep: 09.06.13 14.25
Seq Number: 922301

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**0.174**	5.00	0.104	mg/L	09.06.13 16.28	J	1
Nitrate as N	14797-55-8	U	1.00	0.0240	mg/L	09.06.13 16.28	U	1
Sulfate	14808-79-8	U	5.00	0.168	mg/L	09.06.13 16.28	U	1

Analytical Method: Manganese by SW-846 6010C Prep Method: SW3010A
Tech: JDR % Moisture:
Analyst: 4150 Date Prep: 09.09.13 16.14
Seq Number: 922536

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Manganese	7439-96-5	U	0.0500	0.000900	mg/L	09.11.13 18.34	U	1

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Environmental International Corporation, Alpharetta, GA

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Sample Id: **Equipment Blank** Matrix: Water Date Received:09.06.13 08.40

Lab Sample Id: 469854-027 Date Collected: 09.04.13 19.19

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.09.13 10.30

Seq Number: 922561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.10.13 06.03	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.10.13 06.03	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.10.13 06.03	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.10.13 06.03	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	09.10.13 06.03	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.10.13 06.03	U	1
Beta-BHC	319-85-7	U	0.0500	0.00230	ug/L	09.10.13 06.03	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.10.13 06.03	U	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.10.13 06.03	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.10.13 06.03	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.10.13 06.03	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.10.13 06.03	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.10.13 06.03	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.10.13 06.03	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.10.13 06.03	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.10.13 06.03	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	09.10.13 06.03	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.10.13 06.03	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.10.13 06.03	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.10.13 06.03	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.10.13 06.03	U	1
Toxaphene	8001-35-2	U	2.00	0.423	ug/L	09.10.13 06.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	87	%	27-135	09.10.13 06.03	
Decachlorobiphenyl	2051-24-3	67	%	26-154	09.10.13 06.03	

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 quantiation 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

Analytical Method: **Total Organic Carbon by SW-846 9060**
Seq Number: 922532 Matrix: Water
MB Sample Id: 922532-1-BLK LCS Sample Id: 922532-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Total Organic Carbon	<0.548	10.0	10.7	107	90-110	mg/L	09.11.13 09:58	

Analytical Method: **Total Organic Carbon by SW-846 9060**
Seq Number: 922533 Matrix: Water
MB Sample Id: 922533-1-BLK LCS Sample Id: 922533-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Total Organic Carbon	<0.548	10.0	10.6	106	90-110	mg/L	09.11.13 21:06	

Analytical Method: **Total Organic Carbon by SW-846 9060**
Seq Number: 922569 Matrix: Water
MB Sample Id: 922569-1-BLK LCS Sample Id: 922569-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Total Organic Carbon	<0.548	10.0	10.4	104	90-110	mg/L	09.12.13 10:29	

Analytical Method: **Total Organic Carbon by SW-846 9060**
Seq Number: 922532 Matrix: Water
Parent Sample Id: 469854-014 MD Sample Id: 469854-014 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Organic Carbon	1.85	1.76	5	20	mg/L	09.11.13 19:24	

Analytical Method: **Total Organic Carbon by SW-846 9060**
Seq Number: 922532 Matrix: Water
Parent Sample Id: 469854-015 MD Sample Id: 469854-015 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Organic Carbon	1.79	1.78	1	20	mg/L	09.11.13 19:59	

Analytical Method: **Total Organic Carbon by SW-846 9060**
Seq Number: 922533 Matrix: Water
Parent Sample Id: 469854-022 MD Sample Id: 469854-022 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Organic Carbon	1.53	1.42	7	20	mg/L	09.12.13 01:07	

Analytical Method: **Total Organic Carbon by SW-846 9060**
Seq Number: 922532 Matrix: Water
Parent Sample Id: 469854-001 MS Sample Id: 469854-001 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Total Organic Carbon	1.80	10.0	12.5	107	90-110	mg/L	09.11.13 13:34	

Analytical Method: **Total Organic Carbon by SW-846 9060**
Seq Number: 922532 Matrix: Water
Parent Sample Id: 469854-011 MS Sample Id: 469854-011 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Total Organic Carbon	2.63	10.0	13.2	106	90-110	mg/L	09.11.13 18:14	

Analytical Method: **Total Organic Carbon by SW-846 9060**
Seq Number: 922533 Matrix: Water
Parent Sample Id: 469854-020 MS Sample Id: 469854-020 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Total Organic Carbon	2.61	10.0	13.2	106	90-110	mg/L	09.11.13 23:57	

Analytical Method: **Total Organic Carbon by SW-846 9060**
Seq Number: 922533 Matrix: Water
Parent Sample Id: 469854-024 MS Sample Id: 469854-024 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Total Organic Carbon	2.29	10.0	12.8	105	90-110	mg/L	09.12.13 01:59	

Analytical Method: **Total Organic Carbon by SW-846 9060**
Seq Number: 922569 Matrix: Water
Parent Sample Id: 469854-016 MS Sample Id: 469854-016 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Total Organic Carbon	56.5	100	162	106	90-110	mg/L	09.12.13 11:06	

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Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 922301 Matrix: Water Date Prep: 09.06.13
MB Sample Id: 643574-1-BLK LCS Sample Id: 643574-1-BKS LCSD Sample Id: 643574-1-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	9.15	92	9.23	92	80-120	1	15	mg/L	09.07.13 05:35	
Nitrate as N	<0.0240	1.00	0.966	97	0.926	93	80-120	4	15	mg/L	09.07.13 05:35	
Sulfate	<0.168	10.0	9.12	91	9.02	90	80-120	1	15	mg/L	09.07.13 05:35	

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 922301 Matrix: Water Date Prep: 09.06.13
Parent Sample Id: 469864-022 MD Sample Id: 469864-022 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6.97	7.04	1	15	mg/L	09.07.13 06:10	
Nitrate as N	2.14	2.37	10	15	mg/L	09.07.13 06:10	
Sulfate	1.23	1.78	37	15	mg/L	09.07.13 06:10	FJ

Analytical Method: **Inorganic Anions(Cl, NO3, SO4) by SW-846 9056A** Prep Method: SW9056P
Seq Number: 922301 Matrix: Water Date Prep: 09.06.13
Parent Sample Id: 469864-022 MS Sample Id: 469864-022 S MSD Sample Id: 469864-022 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6.97	10.0	16.8	98	16.7	97	80-120	1	15	mg/L	09.07.13 06:28	
Nitrate as N	2.14	1.00	3.05	91	3.10	96	80-120	2	15	mg/L	09.07.13 06:28	
Sulfate	1.23	10.0	10.6	94	10.6	94	80-120	0	15	mg/L	09.07.13 06:28	

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Seq Number: 922519 Matrix: Water Date Prep: 09.09.13
MB Sample Id: 643586-1-BLK LCS Sample Id: 643586-1-BKS LCSD Sample Id: 643586-1-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	0.945	95	0.923	92	80-120	2	20	mg/L	09.11.13 16:37	

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Seq Number: 922536 Matrix: Water Date Prep: 09.09.13
MB Sample Id: 643589-1-BLK LCS Sample Id: 643589-1-BKS LCSD Sample Id: 643589-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Manganese	0.00130	1.00	0.947	95	0.938	94	80-120	1	20	mg/L	09.11.13 18:06	

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Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Seq Number: 922519 Matrix: Water Date Prep: 09.09.13
Parent Sample Id: 469773-006 MD Sample Id: 469773-006 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Manganese	0.0452	0.0483	7	20	mg/L	09.11.13 16:42	J

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Seq Number: 922536 Matrix: Water Date Prep: 09.09.13
Parent Sample Id: 469854-020 MD Sample Id: 469854-020 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Manganese	0.945	0.931	1	20	mg/L	09.11.13 18:12	

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Seq Number: 922519 Matrix: Water Date Prep: 09.09.13
Parent Sample Id: 469773-006 MS Sample Id: 469773-006 S MSD Sample Id: 469773-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Manganese	0.0452	1.00	0.975	93	0.965	92	80-120	1	20	mg/L	09.11.13 16:50	

Analytical Method: **Manganese by SW-846 6010C** Prep Method: SW3010A
Seq Number: 922536 Matrix: Water Date Prep: 09.09.13
Parent Sample Id: 469854-020 MS Sample Id: 469854-020 S MSD Sample Id: 469854-020 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Manganese	0.945	1.00	1.86	92	1.81	87	80-120	3	20	mg/L	09.11.13 18:14	

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Environmental International Corporation

Bainbridge, GA Site

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

Seq Number: 922534 Matrix: Water Date Prep: 09.06.13

MB Sample Id: 643581-1-BLK LCS Sample Id: 643581-1-BKS LCSD Sample Id: 643581-1-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	<0.00370	0.500	0.350	70	0.377	75	20-152	7	30	ug/L	09.09.13 19:12	
4,4-DDE	<0.00350	0.500	0.320	64	0.317	63	18-147	1	30	ug/L	09.09.13 19:12	
4,4-DDT	<0.00490	0.500	0.441	88	0.395	79	18-164	11	30	ug/L	09.09.13 19:12	
Aldrin	<0.00260	0.500	0.428	86	0.405	81	11-131	6	30	ug/L	09.09.13 19:12	
Alpha-BHC	<0.0101	0.500	0.479	96	0.468	94	24-141	2	30	ug/L	09.09.13 19:12	
Alpha-Chlordane	<0.00220	0.500	0.470	94	0.464	93	37-135	1	30	ug/L	09.09.13 19:12	
Beta-BHC	<0.00230	0.500	0.600	120	0.516	103	12-162	15	30	ug/L	09.09.13 19:12	
Delta-BHC	<0.00200	0.500	0.309	62	0.328	66	19-147	6	30	ug/L	09.09.13 19:12	
Dieldrin	<0.00430	0.500	0.521	104	0.541	108	35-140	4	30	ug/L	09.09.13 19:12	
Endosulfan I	<0.00240	0.500	0.270	54	0.284	57	20-135	5	30	ug/L	09.09.13 19:12	
Endosulfan II	<0.00450	0.500	0.319	64	0.331	66	34-122	4	30	ug/L	09.09.13 19:12	
Endosulfan Sulfate	<0.00700	0.500	0.467	93	0.429	86	41-145	8	30	ug/L	09.09.13 19:12	
Endrin	<0.00460	0.500	0.468	94	0.447	89	36-158	5	30	ug/L	09.09.13 19:12	
Endrin Aldehyde	<0.00860	0.500	0.518	104	0.533	107	28-135	3	30	ug/L	09.09.13 19:12	
Endrin Ketone	<0.00450	0.500	0.446	89	0.460	92	42-134	3	30	ug/L	09.09.13 19:12	
Gamma-BHC (Lindane)	<0.00160	0.500	0.452	90	0.477	95	23-143	5	30	ug/L	09.09.13 19:12	
Gamma-Chlordane	<0.00180	0.500	0.463	93	0.477	95	25-112	3	30	ug/L	09.09.13 19:12	
Heptachlor	<0.00290	0.500	0.481	96	0.492	98	20-142	2	30	ug/L	09.09.13 19:12	
Heptachlor Epoxide	<0.00280	0.500	0.472	94	0.506	101	32-134	7	30	ug/L	09.09.13 19:12	
Methoxychlor	<0.0288	0.500	0.572	114	0.533	107	36-169	7	30	ug/L	09.09.13 19:12	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	84		79		87		27-135	%	09.09.13 19:12
Decachlorobiphenyl	102		99		100		26-154	%	09.09.13 19:12

QC Summary 469854

Environmental International Corporation

Bainbridge, GA Site

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

Seq Number: 922561 Matrix: Water Date Prep: 09.09.13

MB Sample Id: 643578-1-BLK LCS Sample Id: 643578-1-BKS LCSD Sample Id: 643578-1-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	<0.00370	0.500	0.417	83	0.408	82	20-152	2	30	ug/L	09.10.13 03:42	
4,4-DDE	<0.00350	0.500	0.456	91	0.472	94	18-147	3	30	ug/L	09.10.13 03:42	
4,4-DDT	<0.00490	0.500	0.371	74	0.367	73	18-164	1	30	ug/L	09.10.13 03:42	
Aldrin	<0.00260	0.500	0.450	90	0.399	80	11-131	12	30	ug/L	09.10.13 03:42	
Alpha-BHC	<0.0101	0.500	0.505	101	0.451	90	24-141	11	30	ug/L	09.10.13 03:42	
Alpha-Chlordane	<0.00220	0.500	0.417	83	0.393	79	37-135	6	30	ug/L	09.10.13 03:42	
Beta-BHC	<0.00230	0.500	0.621	124	0.545	109	12-162	13	30	ug/L	09.10.13 03:42	
Delta-BHC	<0.00200	0.500	0.473	95	0.456	91	19-147	4	30	ug/L	09.10.13 03:42	
Dieldrin	<0.00430	0.500	0.424	85	0.412	82	35-140	3	30	ug/L	09.10.13 03:42	
Endosulfan I	<0.00240	0.500	0.221	44	0.185	37	20-135	18	30	ug/L	09.10.13 03:42	
Endosulfan II	<0.00450	0.500	0.330	66	0.316	63	34-122	4	30	ug/L	09.10.13 03:42	
Endosulfan Sulfate	<0.00700	0.500	0.405	81	0.416	83	41-145	3	30	ug/L	09.10.13 03:42	
Endrin	<0.00460	0.500	0.443	89	0.384	77	36-158	14	30	ug/L	09.10.13 03:42	
Endrin Aldehyde	<0.00860	0.500	0.426	85	0.458	92	28-135	7	30	ug/L	09.10.13 03:42	
Endrin Ketone	<0.00450	0.500	0.398	80	0.413	83	42-134	4	30	ug/L	09.10.13 03:42	
Gamma-BHC (Lindane)	<0.00160	0.500	0.454	91	0.414	83	23-143	9	30	ug/L	09.10.13 03:42	
Gamma-Chlordane	<0.00180	0.500	0.431	86	0.385	77	25-112	11	30	ug/L	09.10.13 03:42	
Heptachlor	<0.00290	0.500	0.494	99	0.449	90	20-142	10	30	ug/L	09.10.13 03:42	
Heptachlor Epoxide	<0.00280	0.500	0.491	98	0.409	82	32-134	18	30	ug/L	09.10.13 03:42	
Methoxychlor	<0.0288	0.500	0.429	86	0.468	94	36-169	9	30	ug/L	09.10.13 03:42	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	89		84		77		27-135	%	09.10.13 03:42
Decachlorobiphenyl	110		95		98		26-154	%	09.10.13 03:42

QC Summary 469854

Environmental International Corporation

Bainbridge, GA Site

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

Seq Number: 922534 Matrix: Water Date Prep: 09.06.13

Parent Sample Id: 469854-020 MS Sample Id: 469854-020 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
4,4-DDD	<0.00370	0.500	0.490	98	20-152	ug/L	09.10.13 17:30	
4,4-DDE	<0.00350	0.500	0.397	79	18-147	ug/L	09.10.13 17:30	
4,4-DDT	<0.00490	0.500	0.556	111	18-164	ug/L	09.10.13 17:30	
Aldrin	<0.00260	0.500	0.486	97	11-131	ug/L	09.10.13 17:30	
Alpha-BHC	<0.0101	0.500	0.494	99	24-141	ug/L	09.10.13 17:30	
Alpha-Chlordane	<0.00220	0.500	0.415	83	37-135	ug/L	09.10.13 17:30	
Beta-BHC	<0.00230	0.500	0.597	119	12-162	ug/L	09.10.13 17:30	
Delta-BHC	<0.00200	0.500	0.436	87	19-147	ug/L	09.10.13 17:30	
Dieldrin	<0.00430	0.500	0.462	92	35-140	ug/L	09.10.13 17:30	
Endosulfan I	<0.00240	0.500	0.386	77	20-135	ug/L	09.10.13 17:30	
Endosulfan II	<0.00450	0.500	0.405	81	34-122	ug/L	09.10.13 17:30	
Endosulfan Sulfate	<0.00700	0.500	0.438	88	41-145	ug/L	09.10.13 17:30	
Endrin	<0.00460	0.500	0.558	112	36-158	ug/L	09.10.13 17:30	
Endrin Aldehyde	<0.00860	0.500	0.521	104	28-135	ug/L	09.10.13 17:30	
Endrin Ketone	<0.00450	0.500	0.415	83	42-134	ug/L	09.10.13 17:30	
Gamma-BHC (Lindane)	<0.00160	0.500	0.489	98	23-143	ug/L	09.10.13 17:30	
Gamma-Chlordane	<0.00180	0.500	0.447	89	25-112	ug/L	09.10.13 17:30	
Heptachlor	<0.00290	0.500	0.422	84	20-142	ug/L	09.10.13 17:30	
Heptachlor Epoxide	<0.00280	0.500	0.604	121	32-134	ug/L	09.10.13 17:30	
Methoxychlor	<0.0288	0.500	0.524	105	36-169	ug/L	09.10.13 17:30	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	64		27-135	%	09.10.13 17:30
Decachlorobiphenyl	81		26-154	%	09.10.13 17:30

QC Summary 469854

Environmental International Corporation

Bainbridge, GA Site

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

Seq Number: 922561 Matrix: Water Date Prep: 09.09.13

Parent Sample Id: 469854-024 MS Sample Id: 469854-024 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
4,4-DDD	0.0388	0.500	0.696	131	20-152	ug/L	09.10.13 17:48	
4,4-DDE	<0.00350	0.500	0.691	138	18-147	ug/L	09.10.13 17:48	
4,4-DDT	<0.00490	0.500	0.562	112	18-164	ug/L	09.10.13 17:48	
Aldrin	<0.00260	0.500	0.507	101	11-131	ug/L	09.10.13 17:48	
Alpha-BHC	1.09	0.500	1.65	112	24-141	ug/L	09.10.13 17:48	
Alpha-Chlordane	<0.00220	0.500	0.513	103	37-135	ug/L	09.10.13 17:48	
Beta-BHC	35.5	0.500	30.2	0	12-162	ug/L	09.10.13 17:48	X
Delta-BHC	0.725	0.500	1.31	117	19-147	ug/L	09.10.13 17:48	
Dieldrin	0.0521	0.500	0.557	101	35-140	ug/L	09.10.13 17:48	
Endosulfan I	<0.00240	0.500	0.358	72	20-135	ug/L	09.10.13 17:48	
Endosulfan II	<0.00450	0.500	0.479	96	34-122	ug/L	09.10.13 17:48	
Endosulfan Sulfate	<0.00700	0.500	0.544	109	41-145	ug/L	09.10.13 17:48	
Endrin	0.0637	0.500	0.670	121	36-158	ug/L	09.10.13 17:48	
Endrin Aldehyde	<0.00860	0.500	0.580	116	28-135	ug/L	09.10.13 17:48	
Endrin Ketone	<0.00450	0.500	0.468	94	42-134	ug/L	09.10.13 17:48	
Gamma-BHC (Lindane)	0.370	0.500	0.883	103	23-143	ug/L	09.10.13 17:48	
Gamma-Chlordane	<0.00180	0.500	0.548	110	25-112	ug/L	09.10.13 17:48	
Heptachlor	<0.00290	0.500	0.991	198	20-142	ug/L	09.10.13 17:48	X
Heptachlor Epoxide	<0.00280	0.500	0.569	114	32-134	ug/L	09.10.13 17:48	
Methoxychlor	<0.0288	0.500	0.721	144	36-169	ug/L	09.10.13 17:48	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	61		27-135	%	09.10.13 17:48
Decachlorobiphenyl	84		26-154	%	09.10.13 17:48

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☐ South Carolina 803-543-8099 ☐ Other

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 263930 Page 1 of 3

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

Lab Only: WO# 469854

Proj Name-Location ☐ Previously done at XENCO **Project ID:** GPA - Bainbridge 400007-4.5

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: Alan Sanders Signature: Alan Sanders

	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	8081 B/3660 13 Organochlorine Pesticides	6010 C Manganese	9060 A TOC	9056 A Chloride, Nitrate, Sulfate	RSK-175 Hydrocarbons					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-1	9/3/2013	10:28		W		✓	6	V	V	✓										✓	✓	✓	✓	✓									1
2	MW-1A	9/3/2013	11:30		W		✓	6	V	V	✓										✓	✓	✓	✓	✓									2
3	MW-2	9/4/2013	12:33		W		✓	6	V	V	✓										✓	✓	✓	✓	✓									3
4	MW-3 9/5/13	~~9/4/2013~~	11:33		W		✓	7	V	V	✓										✓	✓	✓	✓	✓									4
5	MW-4A	9/3/2013	9:35		W		✓	6	V	V	✓										✓	✓	✓	.	✓									5
6	MW-5A	9/5/2013	8:43		W		✓	7	V	V	✓										✓	✓	✓	✓	✓									6
7	MW-5D	9/4/2013	15:58		W		✓	7	V	V	✓										✓	✓	✓	✓	✓									7
8	MW-6	9/3/2013	15:25		W		✓	6	V	V	✓										✓	✓	✓		✓									8
9	MW-7	9/4/2013	9:45		W		✓	6	V	V	✓										✓	✓	✓		✓									9
10	MW-8	9/4/2013	17:09		W		✓	7	V	V	✓										✓	✓	✓	✓	✓								3.4°C	10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) Alan Sanders	9/6/13 8:40	2) [signature]	9/6/13 08:40
3)		4)	
5)		6)	

Total Containers per COC: Cooler Temp:

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 #: 263929 Page 2 of 3

Company-City EIC	**Phone** 770-772-7100
Proj Name-Location GPA Bainbridge ☐ Previously done at XENCO	**Project ID** 400007-4.5
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 Alan Sanders Signature Alan Sanders

Lab Only: WO# 469854

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
1	MW-10	9/5/2013	7:44		W		✓	7	✓	✓	✓
2	MW-11	9/3/2013	8:08		W		✓	6	✓	✓	✓
3	MW-12	9/3/2013	17:01		W		✓	6	✓	✓	✓
4	MW-13	9/5/2013	10:12		W		✓	7	✓	✓	✓
5	MW-14	9/3/2013	14:23		W		✓	6	✓	✓	✓
6	MW-15	9/4/2013	15:05		W		✓	6	✓	✓	✓
7	MW-16	9/3/2013	13:20		W		✓	6	✓	✓	✓
8	MW-17	9/4/2013	11:14		W		✓	6	✓	✓	✓
9	MW-18	9/4/2013	16:08		W		✓	6	✓	✓	✓
10	MW-19	9/4/2013	7:56		W		✓	6	✓	✓	✓

	VOCs Full-List BTEX-MTBE EtOH Oxyg VOHs	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	8081 B/3640 B Organochlorine Pesticides	6010 C Manganese	9060 A TOC	300.0 A Chloride, Nitrate, Sulfate	RSK-175 Hydrocarbons									
1										✓	✓	✓	✓	✓									1
2										✓	✓	✓		✓									2
3										✓	✓	✓		✓									3
4										✓	✓	✓	✓	✓									4
5										✓	✓	✓		✓									5
6										✓	✓	✓		✓									6
7										✓	✓	✓		✓									7
8										✓	✓	✓		✓									8
9										✓	✓	✓		✓									9
10										✓	✓	✓		✓									10

Remarks

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

Addn: Date Rcv by: From:

3.4 °C

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) Alan Sanders	9/6/13 7:40	2) [signature]	9/6/13 08:40
3)		4)	
5)		6)	

Total Containers per COC: Cooler Temp:

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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ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 263928 Page 3 of 3

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

Lab Only: WO# 4609854

Proj Name-Location: GPA Bainbridge ☐ Previously done at XENCO **Project ID:** 400007-4.5

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: Alan Sanders Signature: Alan Sanders

	Sample ID	Sampling Date	Time	Depth ft/in/m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives
1	MW-19 MatrixSpike	9/4/2013	8:02		W		✓	1	1	A	C
2	MW-20	9/5/2013	14:22		W		✓	7	V	V	V
3	MW-21	9/3/2013	14:17		W		✓	6	V	V	V
4	MW-22	9/5/2013	15:23		W		✓	7	V	V	V
5	MW-22 MatrixSpike	9/5/2013	15:31		W		✓	1	1	A	C
6	MW-6 Duplicate	9/3/2013	15:34		W		✓	6	V	V	V
7	Equipment Blank	9/4/2013	14:19		W		✓	7	V	V	V
8											
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 | 8081 B/8260 B Organochlorine Pesticides | 6010 C Manganese | 9040 A TOC | 9056 A Chloride, Nitrate + Sulfate | RSK-175 Hydro gas | | | | | | | | | | |

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Florida Testing Services, LLC

Client: Environmental International Corporation

Date/ Time Received: 09/06/2013 08:40:00 AM

Work Order #: 469854

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)?	3.4
#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**
#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)?	**N/A**
#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: 09/06/2013

Checklist reviewed by: Eben Buchanan Date: 09/06/2013

APPENDIX G

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.
7979 GSRI Avenue
Baton Rouge, LA 70820

Report Date 03/21/2012

GCAL Report 212031301



Deliver To	CH2M Hill Constructors, Inc Northpark 400 1000 Abernathy Rd, Suite 1600 Atlanta, GA 30328 770-604-9182 Ext. 54385
Attn	Kama White

Project GPA Bainbridge

CASE NARRATIVE

Client: CH2M Hill Constructors **Report:** 212031301

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the SW-846 8081B analysis, sample 21203130104 (MW-22) had to be diluted to bracket the concentration of target compounds within the calibration range of the instrument. The affected compounds are flagged E, estimated on the Form 1 for the 1 dilution reported for this sample. The dilution is reflected in elevated detection limits. The recoveries for the surrogates are reported as diluted out for those analyses performed at a 10 or higher dilution.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates the result is between the MDL and RDL
U	Indicates the compound was analyzed for but not detected
B	Indicates the analyte was detected in the associated Method Blank

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Robyn Migues
Technical Director
GCAL REPORT 212031301

THIS REPORT CONTAINS 106 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21203130101	MW-22-0-2	Solid	03/08/2012 09:25	03/10/2012 11:45
21203130102	MW-22-3-5	Solid	03/08/2012 09:30	03/10/2012 11:45
21203130103	MW-22-8-10	Solid	03/08/2012 09:45	03/10/2012 11:45
21203130104	MW-22	Water	03/09/2012 10:20	03/10/2012 11:45

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MW-22-0-2

Lab Code: LA024 | Case No.: | Contract:

Matrix: Solid | SAS No.: | SDG No.: 212031301

Sample wt/vol: 30 | Units: g | Lab Sample ID: 21203130101

Level: (low/med) LOW | Date Collected: 03/08/12 | Time: 0925

% Moisture: 21.3 | decanted: (Y/N) | Date Received: 03/10/12

GC Column: RTX-35MS-3 | ID: .25 (mm) | Date Extracted: 03/14/12

Concentrated Extract Volume: 10000 (µL) | Date Analyzed: 03/15/12 | Time: 1532

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: TLS

Injection Volume: 1 (µL) | Prep Method: 3550B

GPC Cleanup: (Y/N) N | pH: | Analytical Method: SW-846 8081B

Prep Batch: 476507 | Analytical Batch: 476845 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS16A

CONCENTRATION UNITS: ug/kg | Lab File ID: 2120315p/sv16a007

CAS NO.	COMPOUND	RESULT		MDL	RL
72-54-8	4,4'-DDD	5.08	U	0.283	5.08
72-55-9	4,4'-DDE	5.08	U	0.247	5.08
50-29-3	4,4'-DDT	1.78	J	0.392	5.08
309-00-2	Aldrin	2.54	U	0.274	2.54
60-57-1	Dieldrin	5.08	U	0.266	5.08
959-98-8	Endosulfan I	2.54	U	0.277	2.54
33213-65-9	Endosulfan II	5.08	U	0.228	5.08
1031-07-8	Endosulfan sulfate	5.08	U	0.288	5.08
72-20-8	Endrin	5.08	U	0.297	5.08
7421-93-4	Endrin aldehyde	5.08	U	0.358	5.08
53494-70-5	Endrin ketone	5.08	U	0.308	5.08
76-44-8	Heptachlor	2.54	U	0.539	2.54
1024-57-3	Heptachlor epoxide	2.54	U	0.573	2.54
72-43-5	Methoxychlor	25.4	U	0.324	25.4
8001-35-2	Toxaphene	254	U	11.9	254
319-84-6	alpha-BHC	2.54	U	0.489	2.54
5103-71-9	alpha-Chlordane	2.54	U	0.271	2.54
319-85-7	beta-BHC	4.66	J	0.449	5.08
319-86-8	delta-BHC	2.54	U	0.230	2.54
58-89-9	gamma-BHC (Lindane)	2.54	U	0.261	2.54
5103-74-2	gamma-Chlordane	2.54	U	0.303	2.54

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MW-22-3-5

Lab Code: LA024 | Case No.: | Contract:

Matrix: Solid | SAS No.: | SDG No.: 212031301

Sample wt/vol: 30.1 | Units: g | Lab Sample ID: 21203130102

Level: (low/med) LOW | Date Collected: 03/08/12 | Time: 0930

% Moisture: 20.9 | decanted: (Y/N) | Date Received: 03/10/12

GC Column: RTX-35MS-3 | ID: .25 (mm) | Date Extracted: 03/14/12

Concentrated Extract Volume: 10000 (µL) | Date Analyzed: 03/15/12 | Time: 1550

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: TLS

Injection Volume: 1 (µL) | Prep Method: 3550B

GPC Cleanup: (Y/N) N | pH: | Analytical Method: SW-846 8081B

Prep Batch: 476507 | Analytical Batch: 476845 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS16A

CONCENTRATION UNITS: ug/kg | Lab File ID: 2120315p/sv16a008

CAS NO.	COMPOUND	RESULT		MDL	RL
72-54-8	4,4'-DDD	5.04	U	0.280	5.04
72-55-9	4,4'-DDE	5.04	U	0.245	5.04
50-29-3	4,4'-DDT	0.935	J	0.389	5.04
309-00-2	Aldrin	2.52	U	0.272	2.52
60-57-1	Dieldrin	5.04	U	0.264	5.04
959-98-8	Endosulfan I	2.52	U	0.275	2.52
33213-65-9	Endosulfan II	5.04	U	0.226	5.04
1031-07-8	Endosulfan sulfate	5.04	U	0.286	5.04
72-20-8	Endrin	5.04	U	0.295	5.04
7421-93-4	Endrin aldehyde	5.04	U	0.355	5.04
53494-70-5	Endrin ketone	5.04	U	0.305	5.04
76-44-8	Heptachlor	2.52	U	0.534	2.52
1024-57-3	Heptachlor epoxide	2.52	U	0.568	2.52
72-43-5	Methoxychlor	25.2	U	0.321	25.2
8001-35-2	Toxaphene	252	U	11.8	252
319-84-6	alpha-BHC	2.52	U	0.485	2.52
5103-71-9	alpha-Chlordane	2.52	U	0.269	2.52
319-85-7	beta-BHC	2.91	J	0.446	5.04
319-86-8	delta-BHC	2.52	U	0.228	2.52
58-89-9	gamma-BHC (Lindane)	2.52	U	0.259	2.52
5103-74-2	gamma-Chlordane	2.52	U	0.301	2.52

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MW-22-8-10

Lab Code: LA024 | Case No.: | Contract:

Matrix: Solid | SAS No.: | SDG No.: 212031301

Sample wt/vol: 30 | Units: g | Lab Sample ID: 21203130103

Level: (low/med) LOW | Date Collected: 03/08/12 | Time: 0945

% Moisture: 21.1 | decanted: (Y/N) | Date Received: 03/10/12

GC Column: RTX-35MS-3 | ID: .25 (mm) | Date Extracted: 03/14/12

Concentrated Extract Volume: 10000 (µL) | Date Analyzed: 03/15/12 | Time: 1609

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: TLS

Injection Volume: 1 (µL) | Prep Method: 3550B

GPC Cleanup: (Y/N) N | pH: | Analytical Method: SW-846 8081B

Prep Batch: 476507 | Analytical Batch: 476845 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS16A

CONCENTRATION UNITS: ug/kg | Lab File ID: 2120315p/sv16a009

CAS NO.	COMPOUND	RESULT		MDL	RL
72-54-8	4,4'-DDD	5.07	U	0.282	5.07
72-55-9	4,4'-DDE	5.07	U	0.247	5.07
50-29-3	4,4'-DDT	1.52	J	0.391	5.07
309-00-2	Aldrin	2.53	U	0.273	2.53
60-57-1	Dieldrin	5.07	U	0.265	5.07
959-98-8	Endosulfan I	2.53	U	0.277	2.53
33213-65-9	Endosulfan II	5.07	U	0.227	5.07
1031-07-8	Endosulfan sulfate	5.07	U	0.288	5.07
72-20-8	Endrin	1.39	J	0.297	5.07
7421-93-4	Endrin aldehyde	0.767	J	0.357	5.07
53494-70-5	Endrin ketone	5.07	U	0.307	5.07
76-44-8	Heptachlor	2.53	U	0.537	2.53
1024-57-3	Heptachlor epoxide	2.53	U	0.572	2.53
72-43-5	Methoxychlor	25.3	U	0.323	25.3
8001-35-2	Toxaphene	253	U	11.9	253
319-84-6	alpha-BHC	2.53	U	0.488	2.53
5103-71-9	alpha-Chlordane	2.53	U	0.270	2.53
319-85-7	beta-BHC	4.18	J	0.448	5.07
319-86-8	delta-BHC	2.53	U	0.229	2.53
58-89-9	gamma-BHC (Lindane)	2.53	U	0.260	2.53
5103-74-2	gamma-Chlordane	2.53	U	0.302	2.53

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MW-22

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 212031301

Sample wt/vol: 970 | Units: mL | Lab Sample ID: 21203130104

Level: (low/med) LOW | Date Collected: 03/09/12 | Time: 1020

% Moisture: | decanted: (Y/N) | Date Received: 03/10/12

GC Column: RTX-35MS-3 | ID: .25 (mm) | Date Extracted: 03/13/12

Concentrated Extract Volume: 10000 (µL) | Date Analyzed: 03/15/12 | Time: 1554

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: TLS

Injection Volume: 1 (µL) | Prep Method: 3510C

GPC Cleanup: (Y/N) N | pH: | Analytical Method: SW-846 8081B

Prep Batch: 476436 | Analytical Batch: 476717 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS15A

CONCENTRATION UNITS: ug/L | Lab File ID: 2120315/sv15a013

CAS NO.	COMPOUND	RESULT		MDL	RL
72-54-8	4,4'-DDD	0.103	U	0.00433	0.103
319-85-7	beta-BHC	26.4	E	0.00454	0.052
319-86-8	delta-BHC	1.67	E	0.00361	0.052
72-55-9	4,4'-DDE	0.103	U	0.00351	0.103
50-29-3	4,4'-DDT	0.103	U	0.00402	0.103
309-00-2	Aldrin	0.052	U	0.00392	0.052
60-57-1	Dieldrin	0.103	U	0.00392	0.103
959-98-8	Endosulfan I	0.052	U	0.00309	0.052
33213-65-9	Endosulfan II	0.103	U	0.00392	0.103
1031-07-8	Endosulfan sulfate	0.103	U	0.00412	0.103
72-20-8	Endrin	0.103	U	0.00361	0.103
7421-93-4	Endrin aldehyde	0.103	U	0.00505	0.103
53494-70-5	Endrin ketone	0.103	U	0.00392	0.103
76-44-8	Heptachlor	0.052	U	0.00361	0.052
1024-57-3	Heptachlor epoxide	0.052	U	0.00412	0.052
72-43-5	Methoxychlor	0.515	U	0.00454	0.515
8001-35-2	Toxaphene	5.15	U	0.567	5.15
319-84-6	alpha-BHC	0.710		0.00392	0.052
5103-71-9	alpha-Chlordane	0.052	U	0.00361	0.052
58-89-9	gamma-BHC (Lindane)	0.265		0.00371	0.052
5103-74-2	gamma-Chlordane	0.052	U	0.00412	0.052

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MW-22

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 212031301

Sample wt/vol: 970 | Units: mL | Lab Sample ID: 21203130104

Level: (low/med) LOW | Date Collected: 03/09/12 | Time: 1020

% Moisture: | decanted: (Y/N) | Date Received: 03/10/12

GC Column: RTX-35MS-3 | ID: .25 (mm) | Date Extracted: 03/13/12

Concentrated Extract Volume: 10000 (µL) | Date Analyzed: 03/16/12 | Time: 1343

Soil Aliquot Volume: (µL) | Dilution Factor: 50 | Analyst: TLS

Injection Volume: 1 (µL) | Prep Method: 3510C

GPC Cleanup: (Y/N) N | pH: | Analytical Method: SW-846 8081B

Prep Batch: 476436 | Analytical Batch: 476738 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS15A

CONCENTRATION UNITS: ug/L | Lab File ID: 2120316/sv15a014

CAS NO.	COMPOUND	RESULT		MDL	RL
319-85-7	beta-BHC	25.9		0.227	2.58
319-86-8	delta-BHC	2.10	J	0.180	2.58

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MB1041171

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 212031301

Sample wt/vol: 1000 | Units: mL | Lab Sample ID: 1041171

Level: (low/med) LOW | Date Collected: | Time:

% Moisture: | decanted: (Y/N) | Date Received:

GC Column: RTX-35MS-3 | ID: .25 (mm) | Date Extracted: 03/13/12

Concentrated Extract Volume: 10000 (µL) | Date Analyzed: 03/15/12 | Time: 1648

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: TLS

Injection Volume: 1 (µL) | Prep Method: 3510C

GPC Cleanup: (Y/N) N | pH: | Analytical Method: SW-846 8081B

Prep Batch: 476436 | Analytical Batch: 476717 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS15A

CONCENTRATION UNITS: ug/L | Lab File ID: 2120315/sv15a016

CAS NO.	COMPOUND	RESULT		MDL	RL
319-84-6	alpha-BHC	0.050	U	0.00380	0.050
319-85-7	beta-BHC	0.050	U	0.00440	0.050
319-86-8	delta-BHC	0.050	U	0.00350	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00400	0.050
959-98-8	Endosulfan I	0.050	U	0.00300	0.050
72-55-9	4,4'-DDE	0.100	U	0.00340	0.100
33213-65-9	Endosulfan II	0.100	U	0.00380	0.100
72-54-8	4,4'-DDD	0.100	U	0.00420	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00400	0.100
72-43-5	Methoxychlor	0.500	U	0.00440	0.500
53494-70-5	Endrin ketone	0.100	U	0.00380	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00490	0.100
5103-71-9	alpha-Chlordane	0.050	U	0.00350	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00400	0.050
8001-35-2	Toxaphene	5.00	U	0.550	5.00
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00360	0.050
76-44-8	Heptachlor	0.050	U	0.00350	0.050
309-00-2	Aldrin	0.050	U	0.00380	0.050
60-57-1	Dieldrin	0.100	U	0.00380	0.100
72-20-8	Endrin	0.100	U	0.00350	0.100
50-29-3	4,4'-DDT	0.100	U	0.00390	0.100

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MB1041539

Lab Code: LA024 | Case No.: | Contract:

Matrix: Solid | SAS No.: | SDG No.: 212031301

Sample wt/vol: 30 | Units: g | Lab Sample ID: 1041539

Level: (low/med) LOW | Date Collected: | Time:

% Moisture: | decanted: (Y/N) | Date Received:

GC Column: RTX-35MS-3 | ID: .25 (mm) | Date Extracted: 03/14/12

Concentrated Extract Volume: 10000 (µL) | Date Analyzed: 03/15/12 | Time: 1437

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: TLS

Injection Volume: 1 (µL) | Prep Method: 3550B

GPC Cleanup: (Y/N) N | pH: | Analytical Method: SW-846 8081B

Prep Batch: 476507 | Analytical Batch: 476845 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS16A

CONCENTRATION UNITS: ug/kg | Lab File ID: 2120315p/sv16a004

CAS NO.	COMPOUND	RESULT		MDL	RL
319-84-6	alpha-BHC	2.00	U	0.385	2.00
319-85-7	beta-BHC	4.00	U	0.354	4.00
319-86-8	delta-BHC	2.00	U	0.181	2.00
1024-57-3	Heptachlor epoxide	2.00	U	0.451	2.00
959-98-8	Endosulfan I	2.00	U	0.218	2.00
72-55-9	4,4'-DDE	4.00	U	0.195	4.00
33213-65-9	Endosulfan II	4.00	U	0.179	4.00
72-54-8	4,4'-DDD	4.00	U	0.223	4.00
1031-07-8	Endosulfan sulfate	4.00	U	0.227	4.00
72-43-5	Methoxychlor	20.0	U	0.255	20.0
53494-70-5	Endrin ketone	4.00	U	0.242	4.00
7421-93-4	Endrin aldehyde	4.00	U	0.282	4.00
5103-71-9	alpha-Chlordane	2.00	U	0.213	2.00
5103-74-2	gamma-Chlordane	2.00	U	0.239	2.00
8001-35-2	Toxaphene	200	U	9.37	200
58-89-9	gamma-BHC (Lindane)	2.00	U	0.206	2.00
76-44-8	Heptachlor	2.00	U	0.424	2.00
309-00-2	Aldrin	2.00	U	0.216	2.00
60-57-1	Dieldrin	4.00	U	0.209	4.00
72-20-8	Endrin	4.00	U	0.234	4.00
50-29-3	4,4'-DDT	4.00	U	0.309	4.00

2E

WATER ORGANIC SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 212031301

GC Column (1): RTX-35MS-3 ID: .25 (mm) GC Cloumn (2): ID: (mm)

Method: SW-846 8081B

	EPA SAMPLE NO.	SMC1 1-(1)	Lo	Hi	F	SMC2 2	Lo	Hi	F	SMC3 3	Lo	Hi	F	SMC4 4	Lo	Hi	F	TOT OUT
1 .	MW-22	73	48	137		89	30	139										0
2 .	MW-22	0	48	137	D	0	30	139	D									0
3 .	MB1041171	67	48	137		54	30	139										0
4 .	LCS1041172	87	48	137		66	30	139										0
5 .	LCSD1041173	90	48	137		80	30	139										0

SMC 1 : Tetrachloro-m-xylene SMC 2 : Decachlorobiphenyl

SMC 3 : SMC 4 :

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

2F

ORGANICS SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 212031301

GC Column (1) RTX-35MS-3 ID: .25 (mm) GC Cloumn (2) : ID: (mm)

Method: SW-846 8081B

EPA SAMPLE NO.	SMC1 1	#	SMC2 2	#	SMC3 3	#	SMC4 4	#	TOT OUT
1. MW-22-0-2	86		89						0
2. MW-22-3-5	89		92						0
3. MW-22-8-10	85		89						0
4. MB1041539	80		80						0
5. LCS1041540	85		94						0
6. LCSD1041541	89		91						0

		CONTROL LIMITS	
SMC 1 :	Tetrachloro-m-xylene	58	140
SMC 2 :	Decachlorobiphenyl	55	139
SMC 3 :			
SMC 4 :			

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

3E

WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 212031301

Contract: Method: SW-846 8081B

Prep Batch: 476436 Analytical Batch: 476717

SAMPLE NO : 1041172

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*LCS CONCENTRATION*	*LCS % REC*	*LCS % REC FLAG*	*QC. LIMITS*
4,4'-DDD	ug/L	.5	0	.438	88		67 - 135
4,4'-DDE	ug/L	.5	0	.437	87		66 - 130
4,4'-DDT	ug/L	.5	0	.418	84		58 - 130
Aldrin	ug/L	.5	0	.45	90		59 - 130
Dieldrin	ug/L	.5	0	.451	90		70 - 134
Endosulfan I	ug/L	.5	0	.426	85		30 - 130
Endosulfan II	ug/L	.5	0	.433	87		41 - 130
Endosulfan sulfate	ug/L	.5	0	.449	90		65 - 139
Endrin	ug/L	.5	0	.434	87		67 - 136
Endrin aldehyde	ug/L	.5	0	.449	90		61 - 130
Endrin ketone	ug/L	.5	0	.423	85		68 - 138
Heptachlor	ug/L	.5	0	.451	90		65 - 130
Heptachlor epoxide	ug/L	.5	0	.457	91		69 - 130
Methoxychlor	ug/L	.5	0	.387	77		56 - 135
alpha-BHC	ug/L	.5	0	.439	88		70 - 131
alpha-Chlordane	ug/L	.5	0	.457	91		70 - 141
beta-BHC	ug/L	.5	0	.451	90		70 - 130
delta-BHC	ug/L	.5	0	.461	92		70 - 132
gamma-BHC (Lindane)	ug/L	.5	0	.439	88		70 - 130
gamma-Chlordane	ug/L	.5	0	.451	90		63 - 130

RPD : 0 out of 20 outside limits

Spike Recovery: 0 out of 40 outside limits

3E

WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 212031301

Contract: Method: SW-846 8081B

Prep Batch: 476436 Analytical Batch: 476717

SAMPLE NO : ***1041173***

COMPOUND	*UNITS*	*SPIKE ADDED*	*LCSD CONC.*	*LCSD % REC*	*REC FLAG*	*% RPD*	*RPD FLAG*	*QC. LIMITS REC*	*RPD*
4,4'-DDD	ug/L	.5	.471	94		7		67 - 135	0 - 40
4,4'-DDE	ug/L	.5	.47	94		7		66 - 130	0 - 40
4,4'-DDT	ug/L	.5	.453	91		8		58 - 130	0 - 40
Aldrin	ug/L	.5	.475	95		5		59 - 130	0 - 40
Dieldrin	ug/L	.5	.488	98		8		70 - 134	0 - 40
Endosulfan I	ug/L	.5	.463	93		8		30 - 130	0 - 40
Endosulfan II	ug/L	.5	.47	94		8		41 - 130	0 - 40
Endosulfan sulfate	ug/L	.5	.49	98		9		65 - 139	0 - 40
Endrin	ug/L	.5	.474	95		9		67 - 136	0 - 40
Endrin aldehyde	ug/L	.5	.481	96		7		61 - 130	0 - 40
Endrin ketone	ug/L	.5	.46	92		8		68 - 138	0 - 40
Heptachlor	ug/L	.5	.488	98		8		65 - 130	0 - 40
Heptachlor epoxide	ug/L	.5	.495	99		8		69 - 130	0 - 40
Methoxychlor	ug/L	.5	.421	84		8		56 - 135	0 - 40
alpha-BHC	ug/L	.5	.495	99		12		70 - 131	0 - 40
alpha-Chlordane	ug/L	.5	.495	99		8		70 - 141	0 - 40
beta-BHC	ug/L	.5	.495	99		9		70 - 130	0 - 40
delta-BHC	ug/L	.5	.501	100		8		70 - 132	0 - 40
gamma-BHC (Lindane)	ug/L	.5	.48	96		9		70 - 130	0 - 40
gamma-Chlordane	ug/L	.5	.483	97		7		63 - 130	0 - 40

RPD : 0 out of 20 outside limits

Spike Recovery: 0 out of 40 outside limits

3F

SOIL ORGANIC LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 212031301

Contract: Method: SW-846 8081B

Prep Batch: 476507 Analytical Batch: 476845

Spike HSN : 1041540

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*LCS CONCENTRATION*	*LCS % REC*	*LCS % REC FLAG*	*QC. LIMITS*
4,4'-DDD	ug/kg	16.7	0	15.5	93		58 - 142
4,4'-DDE	ug/kg	16.7	0	15.5	93		59 - 140
4,4'-DDT	ug/kg	16.7	0	15.5	93		46 - 137
Aldrin	ug/kg	16.7	0	15.4	92		63 - 141
Dieldrin	ug/kg	16.7	0	15.7	94		61 - 142
Endosulfan I	ug/kg	16.7	0	15.3	92		30 - 130
Endosulfan II	ug/kg	16.7	0	15.1	91		43 - 130
Endosulfan sulfate	ug/kg	16.7	0	16.4	98		57 - 147
Endrin	ug/kg	16.7	0	17	102		60 - 143
Endrin aldehyde	ug/kg	16.7	0	15.3	92		52 - 130
Endrin ketone	ug/kg	16.7	0	14.9	89		56 - 148
Heptachlor	ug/kg	16.7	0	16.2	97		61 - 149
Heptachlor epoxide	ug/kg	16.7	0	15.9	95		61 - 137
Methoxychlor	ug/kg	16.7	0	14.5	87		44 - 142
alpha-BHC	ug/kg	16.7	0	15.4	92		57 - 145
alpha-Chlordane	ug/kg	16.7	0	15.9	95		62 - 151
beta-BHC	ug/kg	16.7	0	16.1	97		56 - 145
delta-BHC	ug/kg	16.7	0	16.2	97		59 - 146
gamma-BHC (Lindane)	ug/kg	16.7	0	14.9	89		58 - 137
gamma-Chlordane	ug/kg	16.7	0	15.7	94		54 - 133

RPD : 0 out of 20 outside limits

Spike Recovery: 0 out of 40 outside limits

3F

SOIL ORGANIC LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 212031301

Contract: Method: SW-846 8081B

Prep Batch: 476507 Analytical Batch: 476845

Spike Dupe HSN : 1041541

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
4,4'-DDD	ug/kg	16.7	14.7	88		5		58 - 142	0 - 40
4,4'-DDE	ug/kg	16.7	15	90		3		59 - 140	0 - 40
4,4'-DDT	ug/kg	16.7	14.7	88		5		46 - 137	0 - 40
Aldrin	ug/kg	16.7	15.6	94		1		63 - 141	0 - 40
Dieldrin	ug/kg	16.7	15.4	92		2		61 - 142	0 - 40
Endosulfan I	ug/kg	16.7	15.2	91		.7		30 - 130	0 - 40
Endosulfan II	ug/kg	16.7	14.8	89		2		43 - 130	0 - 40
Endosulfan sulfate	ug/kg	16.7	15.3	92		7		57 - 147	0 - 40
Endrin	ug/kg	16.7	16.3	98		4		60 - 143	0 - 40
Endrin aldehyde	ug/kg	16.7	14.6	88		5		52 - 130	0 - 40
Endrin ketone	ug/kg	16.7	14.1	85		6		56 - 148	0 - 40
Heptachlor	ug/kg	16.7	16.2	97		0		61 - 149	0 - 40
Heptachlor epoxide	ug/kg	16.7	15.7	94		1		61 - 137	0 - 40
Methoxychlor	ug/kg	16.7	13.8	83		5		44 - 142	0 - 40
alpha-BHC	ug/kg	16.7	15.4	92		0		57 - 145	0 - 40
alpha-Chlordane	ug/kg	16.7	15.5	93		3		62 - 151	0 - 40
beta-BHC	ug/kg	16.7	15.4	92		4		56 - 145	0 - 40
delta-BHC	ug/kg	16.7	15.7	94		3		59 - 146	0 - 40
gamma-BHC (Lindane)	ug/kg	16.7	14.7	88		1		58 - 137	0 - 40
gamma-Chlordane	ug/kg	16.7	15.7	94		0		54 - 133	0 - 40

RPD : 0 out of 20 outside limits

Spike Recovery: 0 out of 40 outside limits

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL | Sample ID: MB1041171

Lab Code: LA024 | Case No.: | Contract:

Lab Sample ID: 1041171 | SAS No.: | SDG No.: 212031301

Matrix: Water | Sulfur Cleanup: (Y/N) N | Date Extracted: 03/13/12

Date Analyzed (1): 03/15/12 | Time (1): 1648 | Date Analyzed (2): | Time (2):

Instrument ID (1): GCS15A | Instrument ID (2):

GC Column (1): RTX-35MS-3 | ID: .25 (mm) | GC Column (2): | ID: (mm)

Method: SW-846 8081B | Prep Batch: 476436 | Analytical Batch: 476717

Lab File ID: 2120315/sv15a0

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	INSTRUMENT ID
1.	MW-22	21203130104	03/15/12	1554	GCS15A
2.	LCS1041172	1041172	03/15/12	1707	GCS15A
3.	LCSD1041173	1041173	03/15/12	1725	GCS15A
4.	MW-22	21203130104	03/16/12	1343	GCS15A

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL | Sample ID MB1041539

Lab Code: LA024 | Case No.: | Contract:

Lab Sample ID: 1041539 | SAS No.: | SDG No.: 212031301

Matrix: Solid | Sulfur Cleanup: (Y/N) N | Date Extracted: 03/14/12

Date Analyzed (1): 03/15/12 | Time (1): 1437 | Date Analyzed (2): | Time (2):

Instrument ID (1): GCS16A | Instrument ID (2):

GC Column (1): RTX-35MS-3 | ID: .25 (mm) | GC Column (2): | ID: (mm)

Method: SW-846 8081B | Prep Batch: 476507 | Analytical Batch: 476845

Lab File ID: 2120315p/sv16a

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	INSTRUMENT ID
1.	LCS1041540	1041540	03/15/12	1455	GCS16A
2.	LCSD1041541	1041541	03/15/12	1514	GCS16A
3.	MW-22-0-2	21203130101	03/15/12	1532	GCS16A
4.	MW-22-3-5	21203130102	03/15/12	1550	GCS16A
5.	MW-22-8-10	21203130103	03/15/12	1609	GCS16A

Report Date : 21-Mar-2012 10:54

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 08:54
End Cal Date : 13-MAR-2012 11:54
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15.i/2120313.b/pest35ms.m
Cal Date : 14-Mar-2012 14:12 rbm
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcsv15.i/2120313.b/sv15a012.d
Level 2: /var/chem/gcsv15.i/2120313.b/sv15a006.d
Level 3: /var/chem/gcsv15.i/2120313.b/sv15a007.d
Level 4: /var/chem/gcsv15.i/2120313.b/sv15a008.d
Level 5: /var/chem/gcsv15.i/2120313.b/sv15a013.d
Level 6: /var/chem/gcsv15.i/2120313.b/sv15a004.d
Level 7: /var/chem/gcsv15.i/2120313.b/sv15a003.d

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
2 alpha-BHC	1996625	2015725	2099320	2115124	2102684	1993744	+++++	2053870	2.801
3 gamma-BHC (Lindane)	1812547	1773851	1856144	1859229	1860535	+++++	+++++	1832461	2.095
4 Heptachlor	1588633	1564896	1621010	1623691	1618306	+++++	+++++	1603307	1.604
5 Aldrin	1478251	1481759	1541184	1550767	1544606	+++++	+++++	1519313	2.374
6 beta-BHC	753754	687644	697771	701422	697476	+++++	+++++	707613	3.716
7 delta-BHC	1730130	1714781	1792458	1808657	1788906	+++++	+++++	1766987	2.359

Report Date : 21-Mar-2012 10:54

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 08:54
End Cal Date : 13-MAR-2012 11:54
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15.i/2120313.b/pest35ms.m
Cal Date : 14-Mar-2012 14:12 rbm
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
8 Heptachlor epoxide	1375321	1335670	1374789	1381061	1368969	+++++	+++++	1367162	1.325
9 Endosulfan I	1184909	1185528	1227598	1240529	1226951	+++++	+++++	1213103	2.145
10 gamma-Chlordane	1335659	1306603	1356929	1372366	1369127	+++++	+++++	1348137	2.027
11 alpha-Chlordane	1240883	1239670	1297832	1302301	1299757	+++++	+++++	1276089	2.565
12 4,4'-DDE	1295395	1301133	1385769	1410621	1416302	+++++	+++++	1361844	4.347
13 Dieldrin	1345426	1350590	1425579	1441765	1450622	+++++	+++++	1402797	3.625
14 Endrin	1140585	1142376	1205021	1217758	1220868	+++++	+++++	1185321	3.414
15 4,4'-DDD	1063497	1063203	1156208	1179731	1188314	+++++	+++++	1130191	5.498
16 Endosulfan II	1145745	1129669	1194177	1214603	1216013	+++++	+++++	1180042	3.390

Report Date : 21-Mar-2012 10:54

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Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15.i/2120313.b/pest35ms.m
Cal Date : 14-Mar-2012 14:12 rbm
Curve Type : Average

	5.000	20.000	60.000	80.000	100.000	2.500	___	
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
	50.000							
	Level 7							
17 4,4'-DDT	1075908	1082484	1162781	1193631	1216409	+++++		
	+++++						1146243	5.595
18 Endrin aldehyde	945174	913651	963915	978115	980702	+++++		
	+++++						956311	2.898
19 Methoxychlor	531771	552880	633239	656069	663997	+++++		
	+++++						607591	10.056
20 Endosulfan sulfate	1070329	1039798	1096780	1113260	1110892	+++++		
	+++++						1086212	2.859
21 Endrin ketone	1278741	1266064	1354135	1382205	1394369	+++++		
	+++++						1335103	4.437
M 23 AR 1016-AVG	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
24 AR 1016-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
25 AR 1016-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
26 AR 1016-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Report Date : 21-Mar-2012 10:54

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 08:54
End Cal Date : 13-MAR-2012 11:54
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15.i/2120313.b/pest35ms.m
Cal Date : 14-Mar-2012 14:12 rbm
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
27 AR 1016-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
28 AR 1016-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 29 AR 1260-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 AR 1260-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
31 AR 1260-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 AR 1260-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 AR 1260-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 AR 1260-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 35 AR 1221-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Report Date : 21-Mar-2012 10:54

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 08:54
End Cal Date : 13-MAR-2012 11:54
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15.i/2120313.b/pest35ms.m
Cal Date : 14-Mar-2012 14:12 rbm
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
36 AR 1221-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 AR 1221-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
38 AR 1221-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
39 AR 1221-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 AR 1221-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 41 AR 1232-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 AR 1232-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 AR 1232-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 AR 1232-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Report Date : 21-Mar-2012 10:54

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 08:54
End Cal Date : 13-MAR-2012 11:54
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15.i/2120313.b/pest35ms.m
Cal Date : 14-Mar-2012 14:12 rbm
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
45 AR 1232-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 AR 1232-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 47 AR 1242-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 AR 1242-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 AR 1242-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 AR 1242-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 AR 1242-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 AR 1242-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 53 AR 1248-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Report Date : 21-Mar-2012 10:54

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 08:54
End Cal Date : 13-MAR-2012 11:54
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15.i/2120313.b/pest35ms.m
Cal Date : 14-Mar-2012 14:12 rbm
Curve Type : Average

	5.000	20.000	60.000	80.000	100.000	2.500	___	
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
	50.000							
	Level 7							
54 AR 1248-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
55 AR 1248-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
56 AR 1248-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
57 AR 1248-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
58 AR 1248-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
M 59 AR 1254-AVG	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
60 AR 1254-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
61 AR 1254-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
62 AR 1254-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Report Date : 21-Mar-2012 10:54

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 08:54
End Cal Date : 13-MAR-2012 11:54
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15.i/2120313.b/pest35ms.m
Cal Date : 14-Mar-2012 14:12 rbm
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
	63 AR 1254-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++			
		+++++							+++++	+++++
	64 AR 1254-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++			
		+++++							+++++	+++++
M	65 TOXAPHENE-AVG	+++++	+++++	+++++	+++++	147434	+++++			
		+++++							147434	0.000
	66 TOXAPHENE-PEAK1	+++++	+++++	+++++	+++++	38158	+++++			
		+++++							38158	0.000
	67 TOXAPHENE-PEAK2	+++++	+++++	+++++	+++++	48652	+++++			
		+++++							48652	0.000
	68 TOXAPHENE-PEAK3	+++++	+++++	+++++	+++++	30661	+++++			
		+++++							30661	0.000
	69 TOXAPHENE-PEAK4	+++++	+++++	+++++	+++++	29963	+++++			
		+++++							29963	0.000
	70 TOXAPHENE-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++			
		+++++							+++++	+++++
M	71 CHLORDANE-AVG	+++++	+++++	+++++	+++++	411451	+++++			
		+++++							411451	0.000

Report Date : 21-Mar-2012 10:54

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 08:54
End Cal Date : 13-MAR-2012 11:54
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15.i/2120313.b/pest35ms.m
Cal Date : 14-Mar-2012 14:12 rbm
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
72 CHLORDANE-PEAK1	+++++	+++++	+++++	+++++	32774	+++++	+++++	32774	0.000
73 CHLORDANE-PEAK2	+++++	+++++	+++++	+++++	158448	+++++	+++++	158448	0.000
74 CHLORDANE-PEAK3	+++++	+++++	+++++	+++++	91968	+++++	+++++	91968	0.000
75 CHLORDANE-PEAK4	+++++	+++++	+++++	+++++	128261	+++++	+++++	128261	0.000
76 CHLORDANE-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 77 AR 1268-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
78 AR 1268-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
79 AR 1268-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 AR 1268-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Report Date : 21-Mar-2012 10:54

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 08:54
End Cal Date : 13-MAR-2012 11:54
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15.i/2120313.b/pest35ms.m
Cal Date : 14-Mar-2012 14:12 rbm
Curve Type : Average

	5.000	20.000	60.000	80.000	100.000	2.500	___	
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
	50.000							
	Level 7							
81 AR 1268 PEAK4	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
82 AR 1268-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
M 83 AR 1262-AVG	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
84 AR 1262-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
85 AR 1262-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
86 AR 1262-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
87 AR 1262-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
88 AR 1262-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
89 Diallate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Report Date : 21-Mar-2012 10:54

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 08:54
End Cal Date : 13-MAR-2012 11:54
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15.i/2120313.b/pest35ms.m
Cal Date : 14-Mar-2012 14:12 rbm
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
90 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
91 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
92 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 Mirex	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
94 Alachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	1533904	1400655	1384295	1377561	1360405	+++++	+++++	1411364	4.960
$ 22 Decachlorobiphenyl	976904	894562	913972	918671	903984	+++++	+++++	921619	3.502

Gulf Coast Analytical Laboratories, Inc.

Breakdown Calculation

DDT Breakdown: Formula

$$\frac{\text{(Area DDD) + (Area DDE)}}{\text{(Area DDD) + (Area DDE) + (Area DDT)}} \times 100$$

DDT Breakdown: Calculation

$$\frac{548834 + 194055}{548834 + 194055 + 83884661} \times 100 = 0.9\ \%$$

DDT Breakdown: Criteria < 15%

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Endrin Breakdown: Formula

$$\frac{\text{(Area Endrin ketone) + (Area Endrin aldehyde)}}{\text{(Area End ket) + (Area End ald) + (Area Endrin)}} \times 100$$

Endrin Breakdown: Calculation

$$\frac{2649417 + 694926}{2649417 + 694926 + 93818913} \times 100 = 3.4\ \%$$

Endrin Breakdown: Criteria < 15%

Data File: /var/chem/gcsv15.i/2120313.b/sv15a010.d
Report Date: 14-Mar-2012 14:12

GCAL, Inc.

RECOVERY REPORT

Client Name:
Client SDG: 2120313
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: 1600
Level: LOW
Operator: tls
Data Type: GC MULTI COMP
SampleType: LCS
SpikeList File: 8081icv.spk
Quant Type: ESTD
Sublist File: 8081.sub
Method File: /var/chem/gcsv15.i/2120313.b/pest35ms.m
Misc Info:

SPIKE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
2 alpha-BHC	60	64	107.04	80-120
3 gamma-BHC (Lindane)	60	62	103.16	80-120
6 beta-BHC	60	66	109.71	80-120
4 Heptachlor	60	64	106.21	80-120
7 delta-BHC	60	64	106.59	80-120
5 Aldrin	60	64	107.49	80-120
8 Heptachlor epoxide	60	64	107.35	80-120
10 gamma-Chlordane	60	59	98.52	80-120
11 alpha-Chlordane	60	59	98.59	80-120
9 Endosulfan I	60	64	107.32	80-120
12 4,4'-DDE	60	62	103.78	80-120
13 Dieldrin	60	63	104.71	80-120
14 Endrin	60	62	103.55	80-120
15 4,4'-DDD	60	63	104.93	80-120
16 Endosulfan II	60	62	102.87	80-120
17 4,4'-DDT	60	60	100.19	80-120
18 Endrin aldehyde	60	56	93.35	80-120
20 Endosulfan sulfate	60	62	103.34	80-120
19 Methoxychlor	60	56	94.02	80-120
21 Endrin ketone	60	61	101.08	80-120

SURROGATE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
$ 1 Tetrachloro-m-xylene	500	0.0	*	48-137
$ 22 Decachlorobiphenyl	500	0.0	*	30-139

Gulf Coast Analytical Laboratories, Inc.

Breakdown Calculation

DDT Breakdown:
Formula

$$\frac{\text{(Area DDD) + (Area DDE)}}{\text{(Area DDD) + (Area DDE) + (Area DDT)}} \times 100$$

DDT Breakdown:
Calculation

$$\frac{1040639 + 0}{1040639 + 0 + 90893541} \times 100 = 1.1\ \%$$

DDT Breakdown:
Criteria < 15%

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Endrin Breakdown:
Formula

$$\frac{\text{(Area Endrin ketone) + (Area Endrin aldehyde)}}{\text{(Area End ket) + (Area End ald) + (Area Endrin)}} \times 100$$

Endrin Breakdown:
Calculation

$$\frac{3438356 + 1044331}{3438356 + 1044331 + 97579730} \times 100 = 4.4\ \%$$

Endrin Breakdown:
Criteria < 15%

Data File: /var/chem/gcsv15.i/2120315.b/sv15a003.d
Report Date: 16-Mar-2012 08:53

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15.i Injection Date: 15-MAR-2012 12:52
Lab File ID: sv15a003.d Init. Cal. Date(s): 13-MAR-2012 13-MAR-2012
Analysis Type: WATER Init. Cal. Times: 08:54 11:54
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv15.i/2120315.b/pest35ms.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	1411364	1269389	0.010	10.05945	20.00000	Averaged
2 alpha-BHC	2053870	2001298	0.010	2.55965	20.00000	Averaged
3 gamma-BHC (Lindane)	1832461	1794600	0.010	2.06612	20.00000	Averaged
6 beta-BHC	707613	664475	0.010	6.09630	20.00000	Averaged
4 Heptachlor	1603307	1569937	0.010	2.08135	20.00000	Averaged
7 delta-BHC	1766987	1752143	0.010	0.84004	20.00000	Averaged
5 Aldrin	1519313	1501582	0.010	1.16708	20.00000	Averaged
8 Heptachlor epoxide	1367162	1341144	0.010	1.90305	20.00000	Averaged
10 gamma-Chlordane	1348137	1315677	0.010	2.40779	20.00000	Averaged
11 alpha-Chlordane	1276089	1196743	0.010	6.21785	20.00000	Averaged
9 Endosulfan I	1213103	1210223	0.010	0.23742	20.00000	Averaged
12 4,4'-DDE	1361844	1350516	0.010	0.83184	20.00000	Averaged
13 Dieldrin	1402797	1405082	0.010	-0.16290	20.00000	Averaged
14 Endrin	1185321	1164224	0.010	1.77985	20.00000	Averaged
15 4,4'-DDD	1130191	1119331	0.010	0.96092	20.00000	Averaged
16 Endosulfan II	1180042	1182720	0.010	-0.22700	20.00000	Averaged
17 4,4'-DDT	1146243	1116019	0.010	2.63676	20.00000	Averaged
18 Endrin aldehyde	956311	941635	0.010	1.53467	20.00000	Averaged
20 Endosulfan sulfate	1086212	1070957	0.010	1.40442	20.00000	Averaged
19 Methoxychlor	607591	612201	0.010	-0.75865	20.00000	Averaged
21 Endrin ketone	1335103	1347647	0.010	-0.93954	20.00000	Averaged
$ 22 Decachlorobiphenyl	921619	905092	0.010	1.79326	20.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 2.21209
Maximun Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15.i/2120315.b/sv15a014.d
Report Date: 16-Mar-2012 08:53

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15.i Injection Date: 15-MAR-2012 16:12
Lab File ID: sv15a014.d Init. Cal. Date(s): 13-MAR-2012 13-MAR-2012
Analysis Type: SOIL Init. Cal. Times: 08:54 11:54
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv15.i/2120315.b/pest35ms.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	1411364	1338174	0.010	5.18574	20.00000	Averaged
2 alpha-BHC	2053870	2095447	0.010	-2.02433	20.00000	Averaged
3 gamma-BHC (Lindane)	1832461	1896289	0.010	-3.48319	20.00000	Averaged
6 beta-BHC	707613	725167	0.010	-2.48067	20.00000	Averaged
4 Heptachlor	1603307	1674647	0.010	-4.44957	20.00000	Averaged
7 delta-BHC	1766987	1838523	0.010	-4.04849	20.00000	Averaged
5 Aldrin	1519313	1554532	0.010	-2.31804	20.00000	Averaged
8 Heptachlor epoxide	1367162	1390104	0.010	-1.67808	20.00000	Averaged
10 gamma-Chlordane	1348137	1366609	0.010	-1.37019	20.00000	Averaged
11 alpha-Chlordane	1276089	1244934	0.010	2.44143	20.00000	Averaged
9 Endosulfan I	1213103	1245196	0.010	-2.64556	20.00000	Averaged
12 4,4'-DDE	1361844	1419728	0.010	-4.25042	20.00000	Averaged
13 Dieldrin	1402797	1459703	0.010	-4.05663	20.00000	Averaged
14 Endrin	1185321	1234192	0.010	-4.12299	20.00000	Averaged
15 4,4'-DDD	1130191	1179970	0.010	-4.40451	20.00000	Averaged
16 Endosulfan II	1180042	1239663	0.010	-5.05248	20.00000	Averaged
17 4,4'-DDT	1146243	1208003	0.010	-5.38807	20.00000	Averaged
18 Endrin aldehyde	956311	999336	0.010	-4.49899	20.00000	Averaged
20 Endosulfan sulfate	1086212	1139742	0.010	-4.92815	20.00000	Averaged
19 Methoxychlor	607591	662589	0.010	-9.05174	20.00000	Averaged
21 Endrin ketone	1335103	1417127	0.010	-6.14364	20.00000	Averaged
$ 22 Decachlorobiphenyl	921619	962926	0.010	-4.48210	20.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.02295
Maximun Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15.i/2120315.b/sv15a019.d
Report Date: 16-Mar-2012 08:54

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15.i Injection Date: 15-MAR-2012 17:43
Lab File ID: sv15a019.d Init. Cal. Date(s): 13-MAR-2012 13-MAR-2012
Analysis Type: SOIL Init. Cal. Times: 08:54 11:54
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv15.i/2120315.b/pest35ms.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	1411364	1331110	0.010	5.68630	20.00000	Averaged
2 alpha-BHC	2053870	2081637	0.010	-1.35193	20.00000	Averaged
3 gamma-BHC (Lindane)	1832461	1878461	0.010	-2.51026	20.00000	Averaged
6 beta-BHC	707613	695400	0.010	1.72601	20.00000	Averaged
4 Heptachlor	1603307	1641282	0.010	-2.36856	20.00000	Averaged
7 delta-BHC	1766987	1829865	0.010	-3.55850	20.00000	Averaged
5 Aldrin	1519313	1567056	0.010	-3.14236	20.00000	Averaged
8 Heptachlor epoxide	1367162	1398087	0.010	-2.26202	20.00000	Averaged
10 gamma-Chlordane	1348137	1372596	0.010	-1.81432	20.00000	Averaged
11 alpha-Chlordane	1276089	1243244	0.010	2.57384	20.00000	Averaged
9 Endosulfan I	1213103	1236808	0.010	-1.95408	20.00000	Averaged
12 4,4'-DDE	1361844	1403051	0.010	-3.02579	20.00000	Averaged
13 Dieldrin	1402797	1457803	0.010	-3.92120	20.00000	Averaged
14 Endrin	1185321	1193718	0.010	-0.70840	20.00000	Averaged
15 4,4'-DDD	1130191	1161078	0.010	-2.73291	20.00000	Averaged
16 Endosulfan II	1180042	1223304	0.010	-3.66622	20.00000	Averaged
17 4,4'-DDT	1146243	1166913	0.010	-1.80328	20.00000	Averaged
18 Endrin aldehyde	956311	980064	0.010	-2.48378	20.00000	Averaged
20 Endosulfan sulfate	1086212	1108208	0.010	-2.02505	20.00000	Averaged
19 Methoxychlor	607591	641564	0.010	-5.59141	20.00000	Averaged
21 Endrin ketone	1335103	1402230	0.010	-5.02784	20.00000	Averaged
$ 22 Decachlorobiphenyl	921619	933068	0.010	-1.24231	20.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 2.78074
Maximun Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

Gulf Coast Analytical Laboratories, Inc.

Breakdown Calculation

DDT Breakdown: Formula

$$\frac{\text{(Area DDD) + (Area DDE)}}{\text{(Area DDD) + (Area DDE) + (Area DDT)}} \times 100$$

DDT Breakdown: Calculation

$$\frac{1089304 + 189561}{1089304 + 189561 + 90601504} \times 100 = 1.4\ \%$$

DDT Breakdown: Criteria < 15%

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Endrin Breakdown: Formula

$$\frac{\text{(Area Endrin ketone) + (Area Endrin aldehyde)}}{\text{(Area End ket) + (Area End ald) + (Area Endrin)}} \times 100$$

Endrin Breakdown: Calculation

$$\frac{4874112 + 1806853}{4874112 + 1806853 + 94342466} \times 100 = 6.6\ \%$$

Endrin Breakdown: Criteria < 15%

Data File: /var/chem/gcsv15.i/2120316.b/sv15a013.d
Report Date: 16-Mar-2012 14:01

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15.i Injection Date: 16-MAR-2012 12:19
Lab File ID: sv15a013.d Init. Cal. Date(s): 13-MAR-2012 13-MAR-2012
Analysis Type: WATER Init. Cal. Times: 08:54 11:54
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv15.i/2120316.b/pest35ms.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	1411364	1195759	0.010	15.27634	20.00000	Averaged
2 alpha-BHC	2053870	1835565	0.010	10.62897	20.00000	Averaged
3 gamma-BHC (Lindane)	1832461	1665233	0.010	9.12589	20.00000	Averaged
6 beta-BHC	707613	628002	0.010	11.25070	20.00000	Averaged
4 Heptachlor	1603307	1444335	0.010	9.91529	20.00000	Averaged
7 delta-BHC	1766987	1622414	0.010	8.18186	20.00000	Averaged
5 Aldrin	1519313	1408142	0.010	7.31718	20.00000	Averaged
8 Heptachlor epoxide	1367162	1254168	0.010	8.26485	20.00000	Averaged
10 gamma-Chlordane	1348137	1236985	0.010	8.24489	20.00000	Averaged
11 alpha-Chlordane	1276089	1127777	0.010	11.62239	20.00000	Averaged
9 Endosulfan I	1213103	1148792	0.010	5.30137	20.00000	Averaged
12 4,4'-DDE	1361844	1256066	0.010	7.76730	20.00000	Averaged
13 Dieldrin	1402797	1307530	0.010	6.79117	20.00000	Averaged
14 Endrin	1185321	1067549	0.010	9.93590	20.00000	Averaged
15 4,4'-DDD	1130191	1042706	0.010	7.74074	20.00000	Averaged
16 Endosulfan II	1180042	1099316	0.010	6.84090	20.00000	Averaged
17 4,4'-DDT	1146243	999753	0.010	12.78000	20.00000	Averaged
18 Endrin aldehyde	956311	867406	0.010	9.29670	20.00000	Averaged
20 Endosulfan sulfate	1086212	982983	0.010	9.50361	20.00000	Averaged
19 Methoxychlor	607591	542123	0.010	10.77496	20.00000	Averaged
21 Endrin ketone	1335103	1253624	0.010	6.10280	20.00000	Averaged
$ 22 Decachlorobiphenyl	921619	851614	0.010	7.59588	20.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 9.10271
Maximun Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15.i/2120316.b/sv15a015.d
Report Date: 16-Mar-2012 14:01

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15.i
Lab File ID: sv15a015.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv15.i/2120316.b/pest35ms.m

Injection Date: 16-MAR-2012 14:01
Init. Cal. Date(s): 13-MAR-2012 13-MAR-2012
Init. Cal. Times: 08:54 11:54
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	1411364	1256615	0.010	10.96449	20.00000	Averaged
2 alpha-BHC	2053870	1936215	0.010	5.72845	20.00000	Averaged
3 gamma-BHC (Lindane)	1832461	1764206	0.010	3.72479	20.00000	Averaged
6 beta-BHC	707613	678945	0.010	4.05148	20.00000	Averaged
4 Heptachlor	1603307	1519636	0.010	5.21864	20.00000	Averaged
7 delta-BHC	1766987	1720802	0.010	2.61377	20.00000	Averaged
5 Aldrin	1519313	1493062	0.010	1.72783	20.00000	Averaged
8 Heptachlor epoxide	1367162	1324351	0.010	3.13134	20.00000	Averaged
10 gamma-Chlordane	1348137	1313645	0.010	2.55851	20.00000	Averaged
11 alpha-Chlordane	1276089	1191800	0.010	6.60520	20.00000	Averaged
9 Endosulfan I	1213103	1194715	0.010	1.51581	20.00000	Averaged
12 4,4'-DDE	1361844	1323980	0.010	2.78034	20.00000	Averaged
13 Dieldrin	1402797	1322050	0.010	5.75608	20.00000	Averaged
14 Endrin	1185321	1081028	0.010	8.79877	20.00000	Averaged
15 4,4'-DDD	1130191	1101792	0.010	2.51274	20.00000	Averaged
16 Endosulfan II	1180042	1162251	0.010	1.50766	20.00000	Averaged
17 4,4'-DDT	1146243	1066467	0.010	6.95974	20.00000	Averaged
18 Endrin aldehyde	956311	927940	0.010	2.96677	20.00000	Averaged
20 Endosulfan sulfate	1086212	1043572	0.010	3.92560	20.00000	Averaged
19 Methoxychlor	607591	580398	0.010	4.47550	20.00000	Averaged
21 Endrin ketone	1335103	1349336	0.010	-1.06607	20.00000	Averaged
$ 22 Decachlorobiphenyl	921619	903094	0.010	2.00998	20.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.11816
Maximun Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

Report Date : 21-Mar-2012 10:57

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 09:12
End Cal Date : 13-MAR-2012 12:12
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15b.i/2120313.b/pestXLB.m
Cal Date : 14-Mar-2012 14:29 rbm
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcsv15b.i/2120313.b/sv15b012.d
Level 2: /var/chem/gcsv15b.i/2120313.b/sv15b006.d
Level 3: /var/chem/gcsv15b.i/2120313.b/sv15b007.d
Level 4: /var/chem/gcsv15b.i/2120313.b/sv15b008.d
Level 5: /var/chem/gcsv15b.i/2120313.b/sv15b013.d
Level 6: /var/chem/gcsv15b.i/2120313.b/sv15b004.d
Level 7: /var/chem/gcsv15b.i/2120313.b/sv15b003.d

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
2 alpha-BHC	3428425	3110026	3182250	3187152	3170568	3464026	+++++	3257074	4.591
3 gamma-BHC (Lindane)	3127180	2808599	2847777	2847257	2829464	+++++	+++++	2892055	4.579
4 Heptachlor	2713500	2347498	2250678	2206919	2141444	+++++	+++++	2332008	9.692
5 Aldrin	2647098	2383718	2312656	2276501	2231078	+++++	+++++	2370210	6.942
6 beta-BHC	1396731	1157876	1141986	1142390	1117769	+++++	+++++	1191350	9.712
7 delta-BHC	2996133	2641969	2719823	2697207	2708408	+++++	+++++	2752708	5.061

Report Date : 21-Mar-2012 10:57

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 09:12
End Cal Date : 13-MAR-2012 12:12
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15b.i/2120313.b/pestXLB.m
Cal Date : 14-Mar-2012 14:29 rbm
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
8 Heptachlor epoxide	2383592	2086325	1970882	1925564	1872634	+++++	+++++	2047799	9.941
9 Endosulfan I	2076873	1845293	1764789	1720781	1636701	+++++	+++++	1808888	9.271
10 gamma-Chlordane	2432369	2142487	2126623	2107686	2086110	+++++	+++++	2179055	6.570
11 alpha-Chlordane	2289156	2044270	2025135	2005968	2021835	+++++	+++++	2077273	5.740
12 4,4'-DDE	2246225	2016900	2032023	2027516	2035664	+++++	+++++	2071666	4.723
13 Dieldrin	2309440	2068358	1999437	1984362	1953377	+++++	+++++	2062995	6.983
14 Endrin	1945360	1693573	1659637	1636265	1595437	+++++	+++++	1706055	8.116
15 4,4'-DDD	1831726	1650314	1685872	1700064	1691517	+++++	+++++	1711899	4.066
16 Endosulfan II	1874403	1631386	1622576	1621392	1605344	+++++	+++++	1671020	6.827

Report Date : 21-Mar-2012 10:57

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 09:12
End Cal Date : 13-MAR-2012 12:12
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15b.i/2120313.b/pestXLB.m
Cal Date : 14-Mar-2012 14:29 rbm
Curve Type : Average

	5.000	20.000	60.000	80.000	100.000	2.500	___	
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
	50.000							
	Level 7							
17 4,4'-DDT	1851268	1675679	1767273	1789277	1790504	+++++		
	+++++						1774800	3.584
18 Endrin aldehyde	1577473	1362580	1354795	1337514	1336927	+++++		
	+++++						1393858	7.407
19 Methoxychlor	795039	695416	773890	794541	824683	+++++		
	+++++						776714	6.298
20 Endosulfan sulfate	1777293	1533199	1528264	1513122	1497494	+++++		
	+++++						1569874	7.439
21 Endrin ketone	2007187	1764802	1789438	1811680	1819073	+++++		
	+++++						1838436	5.259
M 23 AR 1016-AVG	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
24 AR 1016-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
25 AR 1016-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
26 AR 1016-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Report Date : 21-Mar-2012 10:57

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 09:12
End Cal Date : 13-MAR-2012 12:12
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15b.i/2120313.b/pestXLB.m
Cal Date : 14-Mar-2012 14:29 rbm
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
27 AR 1016-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
28 AR 1016-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 29 AR 1260-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 AR 1260-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
31 AR 1260-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 AR 1260-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 AR 1260-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 AR 1260-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 35 AR 1221-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Report Date : 21-Mar-2012 10:57

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 09:12
End Cal Date : 13-MAR-2012 12:12
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15b.i/2120313.b/pestXLB.m
Cal Date : 14-Mar-2012 14:29 rbm
Curve Type : Average

	5.000	20.000	60.000	80.000	100.000	2.500	___	
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
	50.000							
	Level 7							
36 AR 1221-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
37 AR 1221-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
38 AR 1221-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
39 AR 1221-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
40 AR 1221-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
M 41 AR 1232-AVG	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
42 AR 1232-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
43 AR 1232-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
44 AR 1232-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Report Date : 21-Mar-2012 10:57

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 09:12
End Cal Date : 13-MAR-2012 12:12
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15b.i/2120313.b/pestXLB.m
Cal Date : 14-Mar-2012 14:29 rbm
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
45 AR 1232-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 AR 1232-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 47 AR 1242-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 AR 1242-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 AR 1242-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 AR 1242-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 AR 1242-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 AR 1242-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 53 AR 1248-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Report Date : 21-Mar-2012 10:57

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 09:12
End Cal Date : 13-MAR-2012 12:12
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15b.i/2120313.b/pestXLB.m
Cal Date : 14-Mar-2012 14:29 rbm
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
54 AR 1248-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 AR 1248-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 AR 1248-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
57 AR 1248-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
58 AR 1248-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 59 AR 1254-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 AR 1254-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 AR 1254-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 AR 1254-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Report Date : 21-Mar-2012 10:57

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 09:12
End Cal Date : 13-MAR-2012 12:12
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15b.i/2120313.b/pestXLB.m
Cal Date : 14-Mar-2012 14:29 rbm
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	___ RRF	% RSD
	50.000 Level 7							
63 AR 1254-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
64 AR 1254-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
M 65 TOXAPHENE-AVG	+++++	+++++	+++++	+++++	241153	+++++		
	+++++						241153	0.000
66 TOXAPHENE-PEAK1	+++++	+++++	+++++	+++++	41217	+++++		
	+++++						41217	0.000
67 TOXAPHENE-PEAK2	+++++	+++++	+++++	+++++	68620	+++++		
	+++++						68620	0.000
68 TOXAPHENE-PEAK3	+++++	+++++	+++++	+++++	59201	+++++		
	+++++						59201	0.000
69 TOXAPHENE-PEAK4	+++++	+++++	+++++	+++++	72115	+++++		
	+++++						72115	0.000
70 TOXAPHENE-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
M 71 CHLORDANE-AVG	+++++	+++++	+++++	+++++	718689	+++++		
	+++++						718689	0.000

Report Date : 21-Mar-2012 10:57

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 09:12
End Cal Date : 13-MAR-2012 12:12
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15b.i/2120313.b/pestXLB.m
Cal Date : 14-Mar-2012 14:29 rbm
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
72 CHLORDANE-PEAK1	+++++	+++++	+++++	+++++	75043	+++++	+++++	75043	0.000
73 CHLORDANE-PEAK2	+++++	+++++	+++++	+++++	293664	+++++	+++++	293664	0.000
74 CHLORDANE-PEAK3	+++++	+++++	+++++	+++++	209053	+++++	+++++	209053	0.000
75 CHLORDANE-PEAK4	+++++	+++++	+++++	+++++	140928	+++++	+++++	140928	0.000
76 CHLORDANE-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 77 AR 1268-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
78 AR 1268-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
79 AR 1268-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 AR 1268-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Report Date : 21-Mar-2012 10:57

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 09:12
End Cal Date : 13-MAR-2012 12:12
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15b.i/2120313.b/pestXLB.m
Cal Date : 14-Mar-2012 14:29 rbm
Curve Type : Average

	5.000	20.000	60.000	80.000	100.000	2.500	___	
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
	50.000							
	Level 7							
81 AR 1268 PEAK4	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
82 AR 1268-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
M 83 AR 1262-AVG	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
84 AR 1262-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
85 AR 1262-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
86 AR 1262-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
87 AR 1262-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
88 AR 1262-peak5	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
89 Diallate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Report Date : 21-Mar-2012 10:57

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 09:12
End Cal Date : 13-MAR-2012 12:12
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15b.i/2120313.b/pestXLB.m
Cal Date : 14-Mar-2012 14:29 rbm
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
90 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
91 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
92 kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 Mirex	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
94 Alachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	2649996	2267388	2234513	2197105	2155212	+++++	+++++	2300843	8.676
$ 22 Decachlorobiphenyl	1535526	1366610	1382515	1386606	1368725	+++++	+++++	1407996	5.100

212031301 50

Gulf Coast Analytical Laboratories, Inc.

Breakdown Calculation

DDT Breakdown: Formula

$$\frac{(\text{Area DDD}) + (\text{Area DDE})}{(\text{Area DDD}) + (\text{Area DDE}) + (\text{Area DDT})} \times 100$$

DDT Breakdown: Calculation

$$\frac{1484752 + 1006611}{1484752 + 1006611 + 130253259} \times 100 = 1.9\ \%$$

DDT Breakdown: Criteria

< 15%

==========

Endrin Breakdown: Formula

$$\frac{(\text{Area Endrin ketone}) + (\text{Area Endrin aldehyde})}{(\text{Area End ket}) + (\text{Area End ald}) + (\text{Area Endrin})} \times 100$$

Endrin Breakdown: Calculation

$$\frac{5651949 + 3172791}{5651949 + 3172791 + 131645301} \times 100 = 6.3\ \%$$

Endrin Breakdown: Criteria

< 15%

Data File: /var/chem/gcsv15b.i/2120313.b/sv15b010.d
Report Date: 14-Mar-2012 14:29

GCAL, Inc.

RECOVERY REPORT

Client Name:
Client SDG: 2120313
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: 1600
Level: LOW
Operator: tls
Data Type: GC MULTI COMP
SampleType: LCS
SpikeList File: 8081icv.spk
Quant Type: ESTD
Sublist File: 8081.sub
Method File: /var/chem/gcsv15b.i/2120313.b/pestXLB.m
Misc Info:

SPIKE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
2 alpha-BHC	60	61	102.46	80-120
3 gamma-BHC (Lindane)	60	61	101.46	80-120
6 beta-BHC	60	64	106.18	80-120
4 Heptachlor	60	60	100.34	80-120
7 delta-BHC	60	62	103.56	80-120
5 Aldrin	60	62	102.71	80-120
8 Heptachlor epoxide	60	61	101.67	80-120
10 gamma-Chlordane	60	57	95.24	80-120
11 alpha-Chlordane	60	57	95.39	80-120
9 Endosulfan I	60	60	100.73	80-120
12 4,4'-DDE	60	62	103.70	80-120
13 Dieldrin	60	62	103.58	80-120
14 Endrin	60	63	104.57	80-120
15 4,4'-DDD	60	64	106.49	80-120
16 Endosulfan II	60	62	103.51	80-120
17 4,4'-DDT	60	60	100.81	80-120
18 Endrin aldehyde	60	57	94.22	80-120
20 Endosulfan sulfate	60	62	104.16	80-120
19 Methoxychlor	60	64	106.37	80-120
21 Endrin ketone	60	61	101.29	80-120

SURROGATE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
$ 1 Tetrachloro-m-xylene	500	0.0	*	48-137
$ 22 Decachlorobiphenyl	500	0.0	*	30-139

212031301 52

Gulf Coast Analytical Laboratories, Inc.

Breakdown Calculation

DDT Breakdown: Formula

$$\frac{(\text{Area DDD}) + (\text{Area DDE})}{(\text{Area DDD}) + (\text{Area DDE}) + (\text{Area DDT})} \times 100$$

DDT Breakdown: Calculation

$$\frac{1325858 + 0}{1325858 + 0 + 139028490} \times 100 = 0.9\ \%$$

DDT Breakdown: Criteria

< 15%

==========

Endrin Breakdown: Formula

$$\frac{(\text{Area Endrin ketone}) + (\text{Area Endrin aldehyde})}{(\text{Area End ket}) + (\text{Area End ald}) + (\text{Area Endrin})} \times 100$$

Endrin Breakdown: Calculation

$$\frac{4077953 + 1287111}{4077953 + 1287111 + 141222643} \times 100 = 3.7\ \%$$

Endrin Breakdown: Criteria

< 15%

Data File: /var/chem/gcsv15b.i/2120315.b/sv15b003.d
Report Date: 15-Mar-2012 12:26

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15b.i Injection Date: 15-MAR-2012 13:10
Lab File ID: sv15b003.d Init. Cal. Date(s): 13-MAR-2012 13-MAR-2012
Analysis Type: WATER Init. Cal. Times: 09:12 12:12
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv15b.i/2120315.b/pestXLB.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	2300843	2205673	0.010	4.13629	20.00000	Averaged
2 alpha-BHC	3257074	3169912	0.010	2.67609	20.00000	Averaged
3 gamma-BHC (Lindane)	2892055	2795086	0.010	3.35297	20.00000	Averaged
6 beta-BHC	1191350	1114050	0.010	6.48847	20.00000	Averaged
7 delta-BHC	2752708	2659660	0.010	3.38025	20.00000	Averaged
4 Heptachlor	2332008	2306487	0.010	1.09436	20.00000	Averaged
5 Aldrin	2370210	2250402	0.010	5.05473	20.00000	Averaged
8 Heptachlor epoxide	2047799	1920575	0.010	6.21274	20.00000	Averaged
10 gamma-Chlordane	2179055	2034056	0.010	6.65423	20.00000	Averaged
11 alpha-Chlordane	2077273	1952978	0.010	5.98356	20.00000	Averaged
9 Endosulfan I	1808888	1725124	0.010	4.63069	20.00000	Averaged
12 4,4'-DDE	2071666	1974098	0.010	4.70963	20.00000	Averaged
13 Dieldrin	2062995	1966968	0.010	4.65473	20.00000	Averaged
14 Endrin	1706055	1693459	0.010	0.73831	20.00000	Averaged
15 4,4'-DDD	1711899	1663144	0.010	2.84799	20.00000	Averaged
16 Endosulfan II	1671020	1534456	0.010	8.17252	20.00000	Averaged
18 Endrin aldehyde	1393858	1331156	0.010	4.49844	20.00000	Averaged
17 4,4'-DDT	1774800	1778037	0.010	-0.18235	20.00000	Averaged
20 Endosulfan sulfate	1569874	1521481	0.010	3.08260	20.00000	Averaged
19 Methoxychlor	776714	816494	0.010	-5.12157	20.00000	Averaged
21 Endrin ketone	1838436	1734549	0.010	5.65082	20.00000	Averaged
$ 22 Decachlorobiphenyl	1407996	1323786	0.010	5.98088	20.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.33201
Maximun Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15b.i/2120315.b/sv15b014.d
Report Date: 16-Mar-2012 07:12

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15b.i Injection Date: 15-MAR-2012 16:30
Lab File ID: sv15b014.d Init. Cal. Date(s): 13-MAR-2012 13-MAR-2012
Analysis Type: WATER Init. Cal. Times: 09:12 12:12
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv15b.i/2120315.b/pestXLB.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	2300843	2163063	0.010	5.98823	20.00000	Averaged
2 alpha-BHC	3257074	3101039	0.010	4.79066	20.00000	Averaged
3 gamma-BHC (Lindane)	2892055	2727804	0.010	5.67941	20.00000	Averaged
6 beta-BHC	1191350	1137314	0.010	4.53571	20.00000	Averaged
7 delta-BHC	2752708	2547981	0.010	7.43729	20.00000	Averaged
4 Heptachlor	2332008	2293723	0.010	1.64173	20.00000	Averaged
5 Aldrin	2370210	2227402	0.010	6.02514	20.00000	Averaged
8 Heptachlor epoxide	2047799	1912056	0.010	6.62875	20.00000	Averaged
10 gamma-Chlordane	2179055	1969874	0.010	9.59963	20.00000	Averaged
11 alpha-Chlordane	2077273	1858221	0.010	10.54517	20.00000	Averaged
9 Endosulfan I	1808888	1750380	0.010	3.23443	20.00000	Averaged
12 4,4'-DDE	2071666	1869222	0.010	9.77204	20.00000	Averaged
13 Dieldrin	2062995	1923902	0.010	6.74227	20.00000	Averaged
14 Endrin	1706055	1593191	0.010	6.61548	20.00000	Averaged
15 4,4'-DDD	1711899	1577575	0.010	7.84644	20.00000	Averaged
16 Endosulfan II	1671020	1555338	0.010	6.92284	20.00000	Averaged
18 Endrin aldehyde	1393858	1279555	0.010	8.20045	20.00000	Averaged
17 4,4'-DDT	1774800	1626385	0.010	8.36236	20.00000	Averaged
20 Endosulfan sulfate	1569874	1440087	0.010	8.26735	20.00000	Averaged
19 Methoxychlor	776714	754683	0.010	2.83642	20.00000	Averaged
21 Endrin ketone	1838436	1693238	0.010	7.89789	20.00000	Averaged
$ 22 Decachlorobiphenyl	1407996	1272508	0.010	9.62275	20.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 6.78148
Maximun Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

Gulf Coast Analytical Laboratories, Inc.

Breakdown Calculation

DDT Breakdown: Formula

$$\frac{\text{(Area DDD) + (Area DDE)}}{\text{(Area DDD) + (Area DDE) + (Area DDT)}} \times 100$$

DDT Breakdown: Calculation

$$\frac{2123188 + 557295}{2123188 + 557295 + 135958680} \times 100 = 1.9\ \%$$

DDT Breakdown: Criteria < 15%

==========

Endrin Breakdown: Formula

$$\frac{\text{(Area Endrin ketone) + (Area Endrin aldehyde)}}{\text{(Area End ket) + (Area End ald) + (Area Endrin)}} \times 100$$

Endrin Breakdown: Calculation

$$\frac{9579598 + 5328852}{9579598 + 5328852 + 126377835} \times 100 = 10.6\ \%$$

Endrin Breakdown: Criteria < 15%

Data File: /var/chem/gcsv15b.i/2120316.b/sv15b013.d
Report Date: 16-Mar-2012 13:23

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15b.i Injection Date: 16-MAR-2012 13:12
Lab File ID: sv15b013.d Init. Cal. Date(s): 13-MAR-2012 13-MAR-2012
Analysis Type: WATER Init. Cal. Times: 09:12 12:12
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv15b.i/2120316.b/pestXLB.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	2300843	2096193	0.010	8.89454	20.00000	Averaged
2 alpha-BHC	3257074	3020142	0.010	7.27440	20.00000	Averaged
3 gamma-BHC (Lindane)	2892055	2657787	0.010	8.10043	20.00000	Averaged
6 beta-BHC	1191350	1067160	0.010	10.42429	20.00000	Averaged
7 delta-BHC	2752708	2542458	0.010	7.63795	20.00000	Averaged
4 Heptachlor	2332008	2182801	0.010	6.39819	20.00000	Averaged
5 Aldrin	2370210	2141150	0.010	9.66414	20.00000	Averaged
8 Heptachlor epoxide	2047799	1826371	0.010	10.81298	20.00000	Averaged
10 gamma-Chlordane	2179055	1926409	0.010	11.59430	20.00000	Averaged
11 alpha-Chlordane	2077273	1851844	0.010	10.85216	20.00000	Averaged
9 Endosulfan I	1808888	1654338	0.010	8.54388	20.00000	Averaged
12 4,4'-DDE	2071666	1852800	0.010	10.56472	20.00000	Averaged
13 Dieldrin	2062995	1856929	0.010	9.98866	20.00000	Averaged
14 Endrin	1706055	1545516	0.010	9.40994	20.00000	Averaged
15 4,4'-DDD	1711899	1540609	0.010	10.00584	20.00000	Averaged
16 Endosulfan II	1671020	1510483	0.010	9.60713	20.00000	Averaged
18 Endrin aldehyde	1393858	1247725	0.010	10.48406	20.00000	Averaged
17 4,4'-DDT	1774800	1592674	0.010	10.26178	20.00000	Averaged
20 Endosulfan sulfate	1569874	1420917	0.010	9.48853	20.00000	Averaged
19 Methoxychlor	776714	734417	0.010	5.44562	20.00000	Averaged
21 Endrin ketone	1838436	1557360	0.010	15.28886	20.00000	Averaged
$ 22 Decachlorobiphenyl	1407996	1233805	0.010	12.37161	20.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 9.68700
Maximun Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15b.i/2120316.b/sv15b015.d
Report Date: 16-Mar-2012 14:00

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15b.i Injection Date: 16-MAR-2012 14:19
Lab File ID: sv15b015.d Init. Cal. Date(s): 13-MAR-2012 13-MAR-2012
Analysis Type: WATER Init. Cal. Times: 09:12 12:12
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv15b.i/2120316.b/pestXLB.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	2300843	2207138	0.010	4.07262	20.00000	Averaged
2 alpha-BHC	3257074	3191848	0.010	2.00261	20.00000	Averaged
3 gamma-BHC (Lindane)	2892055	2813137	0.010	2.72880	20.00000	Averaged
6 beta-BHC	1191350	1147988	0.010	3.63972	20.00000	Averaged
7 delta-BHC	2752708	2731467	0.010	0.77166	20.00000	Averaged
4 Heptachlor	2332008	2269023	0.010	2.70086	20.00000	Averaged
5 Aldrin	2370210	2270027	0.010	4.22676	20.00000	Averaged
8 Heptachlor epoxide	2047799	1932162	0.010	5.64690	20.00000	Averaged
10 gamma-Chlordane	2179055	2076569	0.010	4.70325	20.00000	Averaged
11 alpha-Chlordane	2077273	1999318	0.010	3.75277	20.00000	Averaged
9 Endosulfan I	1808888	1720633	0.010	4.87896	20.00000	Averaged
12 4,4'-DDE	2071666	1970338	0.010	4.89114	20.00000	Averaged
13 Dieldrin	2062995	1946160	0.010	5.66333	20.00000	Averaged
14 Endrin	1706055	1596507	0.010	6.42109	20.00000	Averaged
15 4,4'-DDD	1711899	1663553	0.010	2.82408	20.00000	Averaged
16 Endosulfan II	1671020	1602656	0.010	4.09117	20.00000	Averaged
18 Endrin aldehyde	1393858	1320813	0.010	5.24052	20.00000	Averaged
17 4,4'-DDT	1774800	1717035	0.010	3.25474	20.00000	Averaged
20 Endosulfan sulfate	1569874	1504025	0.010	4.19454	20.00000	Averaged
19 Methoxychlor	776714	774626	0.010	0.26884	20.00000	Averaged
21 Endrin ketone	1838436	1751733	0.010	4.71610	20.00000	Averaged
$ 22 Decachlorobiphenyl	1407996	1326410	0.010	5.79453	20.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 3.93114
Maximun Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

Report Date : 21-Mar-2012 11:28

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 08:56
End Cal Date : 13-MAR-2012 18:24
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv16a.i/2120313.b/pest35ms.m
Cal Date : 14-Mar-2012 09:24 tls
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcsv16a.i/2120313.b/sv16a029.d
Level 2: /var/chem/gcsv16a.i/2120313.b/sv16a030.d
Level 3: /var/chem/gcsv16a.i/2120313.b/sv16a032.d
Level 4: /var/chem/gcsv16a.i/2120313.b/sv16a033.d
Level 5: /var/chem/gcsv16a.i/2120313.b/sv16a034.d
Level 6: /var/chem/gcsv16a.i/2120313.b/sv16a031.d
Level 7: /var/chem/gcsv16a.i/2120313.b/sv16a021.d

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
2 alpha-BHC	4027305	3768961	3912765	3843632	3963582	+++++	+++++	3903249	2.585
3 gamma-BHC (Lindane)	3639359	3357152	3448962	3379995	3492938	+++++	+++++	3463681	3.237
4 Heptachlor	2904840	2684490	2833267	2750343	2787263	+++++	+++++	2792041	2.983
5 Aldrin	3049405	2892443	2902611	2840279	2851075	+++++	+++++	2907162	2.883
6 beta-BHC	1548697	1364805	1374126	1324849	1339200	+++++	+++++	1390335	6.523
7 delta-BHC	3180266	2947990	3200205	3148465	3261185	+++++	+++++	3147622	3.779

Report Date : 21-Mar-2012 11:28

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 08:56
End Cal Date : 13-MAR-2012 18:24
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv16a.i/2120313.b/pest35ms.m
Cal Date : 14-Mar-2012 09:24 tls
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
8 Heptachlor epoxide	2731739	2502894	2472969	2398084	2416229	+++++	+++++	2504383	5.348
9 Endosulfan I	2395886	2030841	2081909	2051217	2110119	+++++	+++++	2133995	7.004
10 gamma-Chlordane	2779490	2618121	2644178	2601395	2635295	+++++	+++++	2655696	2.678
11 alpha-Chlordane	2723718	2201977	2451711	2418830	2450457	+++++	+++++	2449338	7.567
12 4,4'-DDE	2719829	2517270	2623998	2626746	2716451	+++++	+++++	2640859	3.152
13 Dieldrin	2743746	2528707	2590212	2557599	2660159	+++++	+++++	2616085	3.308
14 Endrin	2276285	2050129	2100462	2052416	2158189	+++++	+++++	2127496	4.424
15 4,4'-DDD	2213043	2058088	2200567	2166238	2294847	+++++	+++++	2186556	3.930
16 Endosulfan II	2276541	2077344	2158828	2110730	2212041	+++++	+++++	2167097	3.670

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Report Date : 21-Mar-2012 11:28

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 08:56
End Cal Date : 13-MAR-2012 18:24
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv16a.i/2120313.b/pest35ms.m
Cal Date : 14-Mar-2012 09:24 tls
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
	17 4,4'-DDT	1997678	1977156	2214264	2180388	2341708	+++++	+++++	2142239	7.178
	18 Endrin aldehyde	1902470	1722348	1774639	1744133	1783205	+++++	+++++	1785359	3.911
	19 Methoxychlor	995167	949384	1127906	1156555	1148831	+++++	+++++	1075569	8.948
	20 Endosulfan sulfate	2148730	1950459	2017692	1971529	2034909	+++++	+++++	2024664	3.816
	21 Endrin ketone	2436991	2247782	2413151	2390423	2519271	+++++	+++++	2401524	4.113
M	23 AR 1016-AVG	321289	293034	292918	285034	270546	322782	+++++	297601	6.932
	24 AR 1016-PEAK1	49612	44338	42379	39444	36907	49318	+++++	43666	11.808
	25 AR 1016-PEAK2	116582	106856	101553	94675	87018	118816	+++++	104250	11.880
	26 AR 1016-PEAK3	52013	47602	46815	45300	43691	51666	+++++	47848	7.046

Report Date : 21-Mar-2012 11:28

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 08:56
End Cal Date : 13-MAR-2012 18:24
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv16a.i/2120313.b/pest35ms.m
Cal Date : 14-Mar-2012 09:24 tls
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
27 AR 1016-PEAK4	37444	33961	39290	40764	39744	37404	+++++	38101	6.349
28 AR 1016-PEAK5	65638	60276	62881	64850	63186	65579	+++++	63735	3.236
M 29 AR 1260-AVG	588000	566986	573523	569875	564772	583208	+++++	574394	1.617
30 AR 1260-PEAK1	125954	118651	115554	112127	109141	125956	+++++	117897	5.948
31 AR 1260-PEAK2	138760	130106	129054	128322	127582	137446	+++++	131878	3.724
32 AR 1260-PEAK3	105561	99220	98327	96655	94110	105351	+++++	99871	4.670
33 AR 1260-PEAK4	117272	111535	111633	110117	108073	116061	+++++	112449	3.142
34 AR 1260-PEAK5	100452	107474	118954	122654	125867	98394	+++++	112299	10.480
M 35 AR 1221-AVG	+++++	+++++	89097	+++++	+++++	+++++	+++++	89097	0.000

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Report Date : 21-Mar-2012 11:28

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 08:56
End Cal Date : 13-MAR-2012 18:24
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv16a.i/2120313.b/pest35ms.m
Cal Date : 14-Mar-2012 09:24 tls
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
36 AR 1221-PEAK1	+++++	+++++	19716	+++++	+++++	+++++	+++++	19716	0.000
37 AR 1221-PEAK2	+++++	+++++	6711	+++++	+++++	+++++	+++++	6711	0.000
38 AR 1221-PEAK3	+++++	+++++	29842	+++++	+++++	+++++	+++++	29842	0.000
39 AR 1221-PEAK4	+++++	+++++	17961	+++++	+++++	+++++	+++++	17961	0.000
40 AR 1221-PEAK5	+++++	+++++	14866	+++++	+++++	+++++	+++++	14866	0.000
M 41 AR 1232-AVG	+++++	+++++	122893	+++++	+++++	+++++	+++++	122893	0.000
42 AR 1232-PEAK1	+++++	+++++	10422	+++++	+++++	+++++	+++++	10422	0.000
43 AR 1232-PEAK2	+++++	+++++	15804	+++++	+++++	+++++	+++++	15804	0.000
44 AR 1232-PEAK3	+++++	+++++	38961	+++++	+++++	+++++	+++++	38961	0.000

Report Date : 21-Mar-2012 11:28

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 08:56
End Cal Date : 13-MAR-2012 18:24
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv16a.i/2120313.b/pest35ms.m
Cal Date : 14-Mar-2012 09:24 tls
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
45 AR 1232-PEAK4	+++++	+++++	45813	+++++	+++++	+++++	+++++	45813	0.000
46 AR 1232-PEAK5	+++++	+++++	11892	+++++	+++++	+++++	+++++	11892	0.000
M 47 AR 1242-AVG	+++++	+++++	265688	+++++	+++++	+++++	+++++	265688	0.000
48 AR 1242-PEAK1	+++++	+++++	77192	+++++	+++++	+++++	+++++	77192	0.000
49 AR 1242-PEAK2	+++++	+++++	44160	+++++	+++++	+++++	+++++	44160	0.000
50 AR 1242-PEAK3	+++++	+++++	49401	+++++	+++++	+++++	+++++	49401	0.000
51 AR 1242-PEAK4	+++++	+++++	52919	+++++	+++++	+++++	+++++	52919	0.000
52 AR 1242-PEAK5	+++++	+++++	42016	+++++	+++++	+++++	+++++	42016	0.000
M 53 AR 1248-AVG	+++++	+++++	307113	+++++	+++++	+++++	+++++	307113	0.000

Report Date : 21-Mar-2012 11:28

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 08:56
End Cal Date : 13-MAR-2012 18:24
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv16a.i/2120313.b/pest35ms.m
Cal Date : 14-Mar-2012 09:24 tls
Curve Type : Average

	5.000	20.000	60.000	80.000	100.000	2.500	___	
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
	50.000							
	Level 7							
54 AR 1248-PEAK1	+++++	+++++	56073	+++++	+++++	+++++		
	+++++						56073	0.000
55 AR 1248-PEAK2	+++++	+++++	45008	+++++	+++++	+++++		
	+++++						45008	0.000
56 AR 1248-PEAK3	+++++	+++++	73015	+++++	+++++	+++++		
	+++++						73015	0.000
57 AR 1248-PEAK4	+++++	+++++	70420	+++++	+++++	+++++		
	+++++						70420	0.000
58 AR 1248-PEAK5	+++++	+++++	62597	+++++	+++++	+++++		
	+++++						62597	0.000
M 59 AR 1254-AVG	+++++	+++++	369746	+++++	+++++	+++++		
	+++++						369746	0.000
60 AR 1254-PEAK1	+++++	+++++	34379	+++++	+++++	+++++		
	+++++						34379	0.000
61 AR 1254-PEAK2	+++++	+++++	32434	+++++	+++++	+++++		
	+++++						32434	0.000
62 AR 1254-PEAK3	+++++	+++++	67918	+++++	+++++	+++++		
	+++++						67918	0.000

Report Date : 21-Mar-2012 11:28

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 08:56
End Cal Date : 13-MAR-2012 18:24
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv16a.i/2120313.b/pest35ms.m
Cal Date : 14-Mar-2012 09:24 tls
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
63 AR 1254-PEAK4	+++++	+++++	138743	+++++	+++++	+++++	+++++	138743	0.000
64 AR 1254-PEAK5	+++++	+++++	96272	+++++	+++++	+++++	+++++	96272	0.000
M 65 TOXAPHENE-AVG	+++++	+++++	+++++	+++++	259040	+++++	+++++	259040	0.000
66 TOXAPHENE-PEAK1	+++++	+++++	+++++	+++++	71357	+++++	+++++	71357	0.000
67 TOXAPHENE-PEAK2	+++++	+++++	+++++	+++++	76538	+++++	+++++	76538	0.000
68 TOXAPHENE-PEAK3	+++++	+++++	+++++	+++++	53121	+++++	+++++	53121	0.000
69 TOXAPHENE-PEAK4	+++++	+++++	+++++	+++++	58024	+++++	+++++	58024	0.000
70 TOXAPHENE-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 71 CHLORDANE-AVG	+++++	+++++	+++++	+++++	693784	+++++	+++++	693784	0.000

Report Date : 21-Mar-2012 11:28

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 08:56
End Cal Date : 13-MAR-2012 18:24
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv16a.i/2120313.b/pest35ms.m
Cal Date : 14-Mar-2012 09:24 tls
Curve Type : Average

	5.000	20.000	60.000	80.000	100.000	2.500	___	
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
	50.000							
	Level 7							
72 CHLORDANE-PEAK1	+++++	+++++	+++++	+++++	52702	+++++		
	+++++						52702	0.000
73 CHLORDANE-PEAK2	+++++	+++++	+++++	+++++	272007	+++++		
	+++++						272007	0.000
74 CHLORDANE-PEAK3	+++++	+++++	+++++	+++++	148741	+++++		
	+++++						148741	0.000
75 CHLORDANE-PEAK4	+++++	+++++	+++++	+++++	220334	+++++		
	+++++						220334	0.000
76 CHLORDANE-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
M 77 AR 1268-AVG	+++++	+++++	859424	+++++	+++++	+++++		
	+++++						859424	0.000
78 AR 1268-PEAK1	+++++	+++++	53547	+++++	+++++	+++++		
	+++++						53547	0.000
79 AR 1268-PEAK2	+++++	+++++	69136	+++++	+++++	+++++		
	+++++						69136	0.000
80 AR 1268-PEAK3	+++++	+++++	289800	+++++	+++++	+++++		
	+++++						289800	0.000

Report Date : 21-Mar-2012 11:28

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 08:56
End Cal Date : 13-MAR-2012 18:24
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv16a.i/2120313.b/pest35ms.m
Cal Date : 14-Mar-2012 09:24 tls
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
	81 AR 1268 PEAK4	+++++	+++++	225708	+++++	+++++	+++++	+++++	225708	0.000
M	83 AR 1262-AVG	+++++	+++++	462883	+++++	+++++	+++++	+++++	462883	0.000
	84 AR 1262-PEAK1	+++++	+++++	45753	+++++	+++++	+++++	+++++	45753	0.000
	85 AR 1262-PEAK2	+++++	+++++	80811	+++++	+++++	+++++	+++++	80811	0.000
	86 AR 1262-PEAK3	+++++	+++++	89548	+++++	+++++	+++++	+++++	89548	0.000
	87 AR 1262-PEAK4	+++++	+++++	128526	+++++	+++++	+++++	+++++	128526	0.000
	88 AR 1262-PEAK5	+++++	+++++	118245	+++++	+++++	+++++	+++++	118245	0.000
	89 Diallate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Report Date : 21-Mar-2012 11:28

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 08:56
End Cal Date : 13-MAR-2012 18:24
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv16a.i/2120313.b/pest35ms.m
Cal Date : 14-Mar-2012 09:24 tls
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
90 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
91 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
92 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 Mirex	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
94 Alachlor	491346	425585	349989	334630	334161	376668	+++++	385397	16.151
$ 1 Tetrachloro-m-xylene	3129929	2788139	2788016	2689880	2670689	+++++	+++++	2813331	6.581
$ 22 Decachlorobiphenyl	1723478	1605353	1649412	1622687	1636155	+++++	+++++	1647417	2.765

Report Date : 21-Mar-2012 11:28

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 08:56
End Cal Date : 13-MAR-2012 18:24
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv16a.i/2120313.b/pest35ms.m
Cal Date : 14-Mar-2012 09:24 tls
Curve Type : Average

Average %RSD Results.
Calculated Average %RSD = 5.52465
Maximun Average %RSD = 20.00000
* Passed Average %RSD Test.

212031301 70

Gulf Coast Analytical Laboratories, Inc.

Breakdown Calculation

DDT Breakdown: Formula

$$\frac{\text{(Area DDD) + (Area DDE)}}{\text{(Area DDD) + (Area DDE) + (Area DDT)}} \times 100$$

DDT Breakdown: Calculation

$$\frac{1176740 + 1116343}{1176740 + 1116343 + 149663856} \times 100 = 1.5\ \%$$

DDT Breakdown: Criteria < 15%

==========

Endrin Breakdown: Formula

$$\frac{\text{(Area Endrin ketone) + (Area Endrin aldehyde)}}{\text{(Area End ket) + (Area End ald) + (Area Endrin)}} \times 100$$

Endrin Breakdown: Calculation

$$\frac{5741998 + 2301758}{5741998 + 2301758 + 158719268} \times 100 = 4.8\ \%$$

Endrin Breakdown: Criteria < 15%

Data File: /var/chem/gcsv16a.i/2120313.b/sv16a010.d
Report Date: 14-Mar-2012 09:24

GCAL, Inc.

RECOVERY REPORT

Client Name:
Client SDG: 2120313
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: 1600
Level: LOW
Operator: tls
Data Type: GC MULTI COMP
SampleType: LCS
SpikeList File: 8081icv.spk
Quant Type: ESTD
Sublist File: 8081.sub
Method File: /var/chem/gcsv16a.i/2120313.b/pest35ms.m
Misc Info:

SPIKE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
2 alpha-BHC	60	62	104.08	85-115
3 gamma-BHC (Lindane)	60	61	100.92	85-115
6 beta-BHC	60	64	107.41	85-115
4 Heptachlor	60	63	105.39	85-115
7 delta-BHC	60	64	106.06	85-115
5 Aldrin	60	63	104.52	85-115
8 Heptachlor epoxide	60	62	104.12	85-115
10 gamma-Chlordane	60	58	96.24	85-115
11 alpha-Chlordane	60	57	95.10	85-115
9 Endosulfan I	60	62	104.02	85-115
12 4,4'-DDE	60	61	101.04	85-115
13 Dieldrin	60	61	101.53	85-115
14 Endrin	60	61	102.01	85-115
15 4,4'-DDD	60	61	101.99	85-115
16 Endosulfan II	60	60	100.58	85-115
17 4,4'-DDT	60	59	98.40	85-115
18 Endrin aldehyde	60	55	91.41	85-115
20 Endosulfan sulfate	60	60	100.38	85-115
19 Methoxychlor	60	56	93.62	85-115
21 Endrin ketone	60	59	98.66	85-115

SURROGATE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
$ 1 Tetrachloro-m-xylene	500	0.0	*	48-137
$ 22 Decachlorobiphenyl	500	0.0	*	30-139

Gulf Coast Analytical Laboratories, Inc.

Breakdown Calculation

DDT Breakdown: Formula

$$\frac{(\text{Area DDD}) + (\text{Area DDE})}{(\text{Area DDD}) + (\text{Area DDE}) + (\text{Area DDT})} \times 100$$

DDT Breakdown: Calculation

$$\frac{1057584 + 688515}{1057584 + 688515 + 151781843} \times 100 = 1.1\ \%$$

DDT Breakdown: Criteria

< 15%

==========

Endrin Breakdown: Formula

$$\frac{(\text{Area Endrin ketone}) + (\text{Area Endrin aldehyde})}{(\text{Area End ket}) + (\text{Area End ald}) + (\text{Area Endrin})} \times 100$$

Endrin Breakdown: Calculation

$$\frac{4210405 + 1077139}{4210405 + 1077139 + 164578389} \times 100 = 3.1\ \%$$

Endrin Breakdown: Criteria

< 15%

Data File: /var/chem/gcsv16a.i/2120315p.b/sv16a003.d
Report Date: 19-Mar-2012 10:19

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv16a.i Injection Date: 15-MAR-2012 14:19
Lab File ID: sv16a003.d Init. Cal. Date(s): 13-MAR-2012 13-MAR-2012
Analysis Type: WATER Init. Cal. Times: 08:56 18:24
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv16a.i/2120315p.b/pest35ms.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	2813331	2663544	0.010	5.32419	20.00000	Averaged
2 alpha-BHC	3903249	3693630	0.010	5.37037	20.00000	Averaged
3 gamma-BHC (Lindane)	3463681	3265556	0.010	5.72008	20.00000	Averaged
6 beta-BHC	1390335	1285970	0.010	7.50651	20.00000	Averaged
4 Heptachlor	2792041	2723613	0.010	2.45081	20.00000	Averaged
7 delta-BHC	3147622	3087114	0.010	1.92235	20.00000	Averaged
5 Aldrin	2907162	2644240	0.010	9.04396	20.00000	Averaged
8 Heptachlor epoxide	2504383	2304483	0.010	7.98200	20.00000	Averaged
10 gamma-Chlordane	2655696	2452064	0.010	7.66774	20.00000	Averaged
11 alpha-Chlordane	2449338	2310886	0.010	5.65264	20.00000	Averaged
9 Endosulfan I	2133995	1998420	0.010	6.35307	20.00000	Averaged
12 4,4'-DDE	2640859	2430440	0.010	7.96783	20.00000	Averaged
13 Dieldrin	2616085	2423474	0.010	7.36256	20.00000	Averaged
14 Endrin	2127496	2050574	0.010	3.61562	20.00000	Averaged
15 4,4'-DDD	2186556	2021462	0.010	7.55044	20.00000	Averaged
16 Endosulfan II	2167097	2005253	0.010	7.46821	20.00000	Averaged
17 4,4'-DDT	2142239	2056184	0.010	4.01704	20.00000	Averaged
18 Endrin aldehyde	1785359	1639302	0.010	8.18081	20.00000	Averaged
20 Endosulfan sulfate	2024664	1899932	0.010	6.16063	20.00000	Averaged
19 Methoxychlor	1075569	1063203	0.010	1.14973	20.00000	Averaged
21 Endrin ketone	2401524	2206249	0.010	8.13126	20.00000	Averaged
$ 22 Decachlorobiphenyl	1647417	1470422	0.010	10.74377	20.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 6.24280
Maximun Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv16a.i/2120315p.b/sv16a010.d
Report Date: 16-Mar-2012 07:14

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv16a.i Injection Date: 15-MAR-2012 16:27
Lab File ID: sv16a010.d Init. Cal. Date(s): 13-MAR-2012 13-MAR-2012
Analysis Type: WATER Init. Cal. Times: 08:56 18:24
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv16a.i/2120315p.b/pest35ms.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	2813331	2556205	0.010	9.13954	20.00000	Averaged
2 alpha-BHC	3903249	3563192	0.010	8.71215	20.00000	Averaged
3 gamma-BHC (Lindane)	3463681	3133414	0.010	9.53516	20.00000	Averaged
6 beta-BHC	1390335	1228360	0.010	11.65012	20.00000	Averaged
4 Heptachlor	2792041	2623884	0.010	6.02273	20.00000	Averaged
7 delta-BHC	3147622	2944722	0.010	6.44613	20.00000	Averaged
5 Aldrin	2907162	2562247	0.010	11.86434	20.00000	Averaged
8 Heptachlor epoxide	2504383	2236363	0.010	10.70202	20.00000	Averaged
10 gamma-Chlordane	2655696	2361445	0.010	11.07999	20.00000	Averaged
11 alpha-Chlordane	2449338	2143484	0.010	12.48722	20.00000	Averaged
9 Endosulfan I	2133995	2030089	0.010	4.86908	20.00000	Averaged
12 4,4'-DDE	2640859	2344438	0.010	11.22442	20.00000	Averaged
13 Dieldrin	2616085	2337130	0.010	10.66304	20.00000	Averaged
14 Endrin	2127496	1955614	0.010	8.07907	20.00000	Averaged
15 4,4'-DDD	2186556	1934537	0.010	11.52587	20.00000	Averaged
16 Endosulfan II	2167097	1938249	0.010	10.56012	20.00000	Averaged
17 4,4'-DDT	2142239	1952905	0.010	8.83811	20.00000	Averaged
18 Endrin aldehyde	1785359	1579604	0.010	11.52456	20.00000	Averaged
20 Endosulfan sulfate	2024664	1819823	0.010	10.11727	20.00000	Averaged
19 Methoxychlor	1075569	1014310	0.010	5.69544	20.00000	Averaged
21 Endrin ketone	2401524	2126963	0.010	11.43277	20.00000	Averaged
$ 22 Decachlorobiphenyl	1647417	1418080	0.010	13.92098	20.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 9.82228
Maximun Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

Report Date : 21-Mar-2012 11:28

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 09:15
End Cal Date : 13-MAR-2012 18:42
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv16b.i/2120313.b/pestXLB.m
Cal Date : 14-Mar-2012 09:55 tls
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcsv16b.i/2120313.b/sv16b029.d
Level 2: /var/chem/gcsv16b.i/2120313.b/sv16b030.d
Level 3: /var/chem/gcsv16b.i/2120313.b/sv16b032.d
Level 4: /var/chem/gcsv16b.i/2120313.b/sv16b033.d
Level 5: /var/chem/gcsv16b.i/2120313.b/sv16b034.d
Level 6: /var/chem/gcsv16b.i/2120313.b/sv16b031.d
Level 7: /var/chem/gcsv16b.i/2120313.b/sv16b021.d

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
2 alpha-BHC	4418461	4160305	4144179	4154135	4326241	4452184	+++++	4275918	3.299
3 gamma-BHC (Lindane)	3978774	3705318	3656977	3662252	3801042	+++++	+++++	3760872	3.585
4 Heptachlor	3422551	3200462	3102358	3055856	3110678	+++++	+++++	3178381	4.599
5 Aldrin	3262386	3071612	2988472	2967269	3026515	+++++	+++++	3063251	3.858
6 beta-BHC	1636685	1456819	1416087	1401595	1429195	+++++	+++++	1468076	6.568
7 delta-BHC	3508650	3345566	3360964	3369320	3493327	+++++	+++++	3415565	2.302

Report Date : 21-Mar-2012 11:28

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 09:15
End Cal Date : 13-MAR-2012 18:42
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv16b.i/2120313.b/pestXLB.m
Cal Date : 14-Mar-2012 09:55 tls
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
8 Heptachlor epoxide	2918920	2670167	2556729	2529514	2557080	+++++	+++++	2646482	6.108
9 Endosulfan I	2277063	2320389	2298164	2283327	2314268	+++++	+++++	2298643	0.819
10 gamma-Chlordane	2805376	2589940	2615329	2630079	2713004	+++++	+++++	2670745	3.305
11 alpha-Chlordane	2451354	2408312	2457011	2475876	2548906	+++++	+++++	2468292	2.082
12 4,4'-DDE	2770349	2602661	2652283	2733857	2822082	+++++	+++++	2716246	3.263
13 Dieldrin	2830540	2650055	2674067	2712166	2818036	+++++	+++++	2736973	3.027
14 Endrin	2355287	2179019	2180650	2163673	2290630	+++++	+++++	2233852	3.794
15 4,4'-DDD	2247487	2147016	2217710	2259989	2386091	+++++	+++++	2251659	3.863
16 Endosulfan II	2313684	2172518	2202293	2211228	2333110	+++++	+++++	2246567	3.201

Report Date : 21-Mar-2012 11:28

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 09:15
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Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv16b.i/2120313.b/pestXLB.m
Cal Date : 14-Mar-2012 09:55 tls
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
17 4,4'-DDT	2315866	2222756	2359429	2431156	2570372	+++++	+++++	2379916	5.483
18 Endrin aldehyde	1828565	1708887	1719443	1753527	1789231	+++++	+++++	1759930	2.820
19 Methoxychlor	1142003	1113883	1265194	1291294	1212940	1139925	1136853	1186013	5.938
20 Endosulfan sulfate	2153018	2008870	2029501	2053312	2151226	+++++	+++++	2079186	3.291
21 Endrin ketone	2470992	2320177	2430137	2487978	2612380	+++++	+++++	2464333	4.279
M 23 AR 1016-AVG	347581	332067	317726	295528	265568	372628	+++++	321850	11.809
24 AR 1016-PEAK1	65329	60397	56407	50456	44432	69243	+++++	57711	16.049
25 AR 1016-PEAK2	87999	81661	76229	69231	60904	93895	+++++	78320	15.509
26 AR 1016-PEAK3	60966	58861	57025	53885	48900	66082	+++++	57620	10.258

Report Date : 21-Mar-2012 11:28

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 09:15
End Cal Date : 13-MAR-2012 18:42
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv16b.i/2120313.b/pestXLB.m
Cal Date : 14-Mar-2012 09:55 tls
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
27 AR 1016-PEAK4	65896	64506	63457	60742	55460	70413	+++++	63412	7.940
28 AR 1016-PEAK5	67391	66642	64608	61214	55873	72995	+++++	64787	8.997
M 29 AR 1260-AVG	709876	700436	695021	681271	660458	734684	+++++	696958	3.621
30 AR 1260-PEAK1	135430	130075	125820	120217	114379	143094	+++++	128169	8.093
31 AR 1260-PEAK2	157500	156417	153785	149754	144753	154164	+++++	152729	3.099
32 AR 1260-PEAK3	161883	162757	162742	159641	154730	163499	+++++	160875	2.047
33 AR 1260-PEAK4	110576	106592	106737	105605	102234	115791	+++++	107923	4.344
34 AR 1260-PEAK5	144487	144595	145937	146054	144363	158135	+++++	147262	3.652
M 35 AR 1221-AVG	+++++	+++++	99434	+++++	+++++	+++++	+++++	99434	0.000

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Report Date : 21-Mar-2012 11:28

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 09:15
End Cal Date : 13-MAR-2012 18:42
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv16b.i/2120313.b/pestXLB.m
Cal Date : 14-Mar-2012 09:55 tls
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
	36 AR 1221-PEAK1	+++++	+++++	21484	+++++	+++++	+++++	+++++	21484	0.000
	37 AR 1221-PEAK2	+++++	+++++	11276	+++++	+++++	+++++	+++++	11276	0.000
	38 AR 1221-PEAK3	+++++	+++++	31669	+++++	+++++	+++++	+++++	31669	0.000
	39 AR 1221-PEAK4	+++++	+++++	20464	+++++	+++++	+++++	+++++	20464	0.000
	40 AR 1221-PEAK5	+++++	+++++	14541	+++++	+++++	+++++	+++++	14541	0.000
M	41 AR 1232-AVG	+++++	+++++	159147	+++++	+++++	+++++	+++++	159147	0.000
	42 AR 1232-PEAK1	+++++	+++++	52996	+++++	+++++	+++++	+++++	52996	0.000
	43 AR 1232-PEAK2	+++++	+++++	30964	+++++	+++++	+++++	+++++	30964	0.000
	44 AR 1232-PEAK3	+++++	+++++	28407	+++++	+++++	+++++	+++++	28407	0.000

Report Date : 21-Mar-2012 11:28

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 09:15
End Cal Date : 13-MAR-2012 18:42
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv16b.i/2120313.b/pestXLB.m
Cal Date : 14-Mar-2012 09:55 tls
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
45 AR 1232-PEAK4	+++++	+++++	22873	+++++	+++++	+++++	+++++	22873	0.000
46 AR 1232-PEAK5	+++++	+++++	23907	+++++	+++++	+++++	+++++	23907	0.000
M 47 AR 1242-AVG	+++++	+++++	241450	+++++	+++++	+++++	+++++	241450	0.000
48 AR 1242-PEAK1	+++++	+++++	56241	+++++	+++++	+++++	+++++	56241	0.000
49 AR 1242-PEAK2	+++++	+++++	42331	+++++	+++++	+++++	+++++	42331	0.000
50 AR 1242-PEAK3	+++++	+++++	45633	+++++	+++++	+++++	+++++	45633	0.000
51 AR 1242-PEAK4	+++++	+++++	47450	+++++	+++++	+++++	+++++	47450	0.000
52 AR 1242-PEAK5	+++++	+++++	49795	+++++	+++++	+++++	+++++	49795	0.000
M 53 AR 1248-AVG	+++++	+++++	340905	+++++	+++++	+++++	+++++	340905	0.000

Report Date : 21-Mar-2012 11:28

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 09:15
End Cal Date : 13-MAR-2012 18:42
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv16b.i/2120313.b/pestXLB.m
Cal Date : 14-Mar-2012 09:55 tls
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
54 AR 1248-PEAK1	+++++	+++++	66864	+++++	+++++	+++++	+++++	66864	0.000
55 AR 1248-PEAK2	+++++	+++++	73356	+++++	+++++	+++++	+++++	73356	0.000
56 AR 1248-PEAK3	+++++	+++++	66643	+++++	+++++	+++++	+++++	66643	0.000
57 AR 1248-PEAK4	+++++	+++++	79485	+++++	+++++	+++++	+++++	79485	0.000
58 AR 1248-PEAK5	+++++	+++++	54557	+++++	+++++	+++++	+++++	54557	0.000
M 59 AR 1254-AVG	+++++	+++++	447616	+++++	+++++	+++++	+++++	447616	0.000
60 AR 1254-PEAK1	+++++	+++++	47358	+++++	+++++	+++++	+++++	47358	0.000
61 AR 1254-PEAK2	+++++	+++++	37192	+++++	+++++	+++++	+++++	37192	0.000
62 AR 1254-PEAK3	+++++	+++++	82209	+++++	+++++	+++++	+++++	82209	0.000

Report Date : 21-Mar-2012 11:28

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 09:15
End Cal Date : 13-MAR-2012 18:42
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv16b.i/2120313.b/pestXLB.m
Cal Date : 14-Mar-2012 09:55 tls
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
63 AR 1254-PEAK4	+++++	+++++	154985	+++++	+++++	+++++	+++++	154985	0.000
64 AR 1254-PEAK5	+++++	+++++	125872	+++++	+++++	+++++	+++++	125872	0.000
M 65 TOXAPHENE-AVG	+++++	+++++	+++++	+++++	302862	+++++	+++++	302862	0.000
66 TOXAPHENE-PEAK1	+++++	+++++	+++++	+++++	55695	+++++	+++++	55695	0.000
67 TOXAPHENE-PEAK2	+++++	+++++	+++++	+++++	88886	+++++	+++++	88886	0.000
68 TOXAPHENE-PEAK3	+++++	+++++	+++++	+++++	75949	+++++	+++++	75949	0.000
69 TOXAPHENE-PEAK4	+++++	+++++	+++++	+++++	82332	+++++	+++++	82332	0.000
70 TOXAPHENE-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 71 CHLORDANE-AVG	+++++	+++++	+++++	+++++	853086	+++++	+++++	853086	0.000

Report Date : 21-Mar-2012 11:28

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 09:15
End Cal Date : 13-MAR-2012 18:42
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv16b.i/2120313.b/pestXLB.m
Cal Date : 14-Mar-2012 09:55 tls
Curve Type : Average

	5.000	20.000	60.000	80.000	100.000	2.500	___	
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
	50.000							
	Level 7							
72 CHLORDANE-PEAK1	+++++	+++++	+++++	+++++	86001	+++++		
	+++++						86001	0.000
73 CHLORDANE-PEAK2	+++++	+++++	+++++	+++++	350587	+++++		
	+++++						350587	0.000
74 CHLORDANE-PEAK3	+++++	+++++	+++++	+++++	249712	+++++		
	+++++						249712	0.000
75 CHLORDANE-PEAK4	+++++	+++++	+++++	+++++	166786	+++++		
	+++++						166786	0.000
76 CHLORDANE-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
M 77 AR 1268-AVG	+++++	+++++	2031	+++++	+++++	+++++		
	+++++						2031	0.000
78 AR 1268-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
79 AR 1268-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
80 AR 1268-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Report Date : 21-Mar-2012 11:28

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 09:15
End Cal Date : 13-MAR-2012 18:42
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv16b.i/2120313.b/pestXLB.m
Cal Date : 14-Mar-2012 09:55 tls
Curve Type : Average

	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	___ RRF	% RSD
Compound	50.000 Level 7							
81 AR 1268 PEAK4	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
82 AR 1268-PEAK5	+++++	+++++	2031	+++++	+++++	+++++		
	+++++						2031	0.000
M 83 AR 1262-AVG	+++++	+++++	599610	+++++	+++++	+++++		
	+++++						599610	0.000
84 AR 1262-PEAK1	+++++	+++++	88684	+++++	+++++	+++++		
	+++++						88684	0.000
85 AR 1262-PEAK2	+++++	+++++	104902	+++++	+++++	+++++		
	+++++						104902	0.000
86 AR 1262-PEAK3	+++++	+++++	139783	+++++	+++++	+++++		
	+++++						139783	0.000
87 AR 1262-PEAK4	+++++	+++++	109174	+++++	+++++	+++++		
	+++++						109174	0.000
88 AR 1262-peak5	+++++	+++++	157068	+++++	+++++	+++++		
	+++++						157068	0.000
89 Diallate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Report Date : 21-Mar-2012 11:28

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 09:15
End Cal Date : 13-MAR-2012 18:42
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv16b.i/2120313.b/pestXLB.m
Cal Date : 14-Mar-2012 09:55 tls
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	50.000 Level 7	___ RRF	% RSD
90 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
91 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
92 kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 Mirex	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
94 Alachlor	523660	438280	363668	352166	352956	387023	+++++	402959	16.719
$ 1 Tetrachloro-m-xylene	3349989	3098776	2960701	2903273	2942208	+++++	+++++	3050989	5.988
$ 22 Decachlorobiphenyl	1875201	1743842	1714187	1697423	1724096	+++++	+++++	1750950	4.081

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Report Date : 21-Mar-2012 11:28

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2012 09:15
End Cal Date : 13-MAR-2012 18:42
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv16b.i/2120313.b/pestXLB.m
Cal Date : 14-Mar-2012 09:55 tls
Curve Type : Average

Average %RSD Results.	
Calculated Average %RSD =	5.64831
Maximun Average %RSD =	20.00000
* Passed Average %RSD Test.	

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Gulf Coast Analytical Laboratories, Inc.

Breakdown Calculation

DDT Breakdown: Formula

$$\frac{\text{(Area DDD) + (Area DDE)}}{\text{(Area DDD) + (Area DDE) + (Area DDT)}} \times 100$$

DDT Breakdown: Calculation

$$\frac{893794 + 1450742}{893794 + 1450742 + 164637213} \times 100 = 1.4\ \%$$

DDT Breakdown: Criteria < 15%

==========

Endrin Breakdown: Formula

$$\frac{\text{(Area Endrin ketone) + (Area Endrin aldehyde)}}{\text{(Area End ket) + (Area End ald) + (Area Endrin)}} \times 100$$

Endrin Breakdown: Calculation

$$\frac{4972180 + 1880545}{4972180 + 1880545 + 170660182} \times 100 = 3.9\ \%$$

Endrin Breakdown: Criteria < 15%

Data File: /var/chem/gcsv16b.i/2120313.b/sv16b010.d
Report Date: 14-Mar-2012 09:01

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1600
Level: LOW
Data Type: GC MULTI COMP
SpikeList File: 8081icv.spk
Sublist File: 8081.sub
Method File: /var/chem/gcsv16b.i/2120313.b/pestXLB.m
Misc Info:

Client SDG: 2120313
Fraction: SV

Operator: tls
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
2 alpha-BHC	60	63	104.89	85-115
3 gamma-BHC (Lindane)	60	61	102.45	85-115
6 beta-BHC	60	66	109.45	85-115
4 Heptachlor	60	62	104.06	85-115
7 delta-BHC	60	64	106.26	85-115
5 Aldrin	60	63	105.64	85-115
8 Heptachlor epoxide	60	63	104.91	85-115
10 gamma-Chlordane	60	59	98.77	85-115
11 alpha-Chlordane	60	60	100.13	85-115
9 Endosulfan I	60	64	107.35	85-115
12 4,4'-DDE	60	62	102.57	85-115
13 Dieldrin	60	61	102.27	85-115
14 Endrin	60	62	102.57	85-115
15 4,4'-DDD	60	63	104.26	85-115
16 Endosulfan II	60	61	101.30	85-115
17 4,4'-DDT	60	59	97.70	85-115
18 Endrin aldehyde	60	54	89.87	85-115
20 Endosulfan sulfate	60	62	102.88	85-115
19 Methoxychlor	60	58	96.63	85-115
21 Endrin ketone	60	60	99.47	85-115

SURROGATE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
$ 1 Tetrachloro-m-xylene	500	0.0	*	48-137
$ 22 Decachlorobiphenyl	500	0.0	*	30-139

Gulf Coast Analytical Laboratories, Inc.

Breakdown Calculation

DDT Breakdown: Formula

$$\frac{\text{(Area DDD) + (Area DDE)}}{\text{(Area DDD) + (Area DDE) + (Area DDT)}} \times 100$$

DDT Breakdown: Calculation

$$\frac{3351304 + 406248}{3351304 + 406248 + 191016270} \times 100 = 1.9\ \%$$

DDT Breakdown: Criteria

< 15%

==========

Endrin Breakdown: Formula

$$\frac{\text{(Area Endrin ketone) + (Area Endrin aldehyde)}}{\text{(Area End ket) + (Area End ald) + (Area Endrin)}} \times 100$$

Endrin Breakdown: Calculation

$$\frac{10164585 + 4584808}{10164585 + 4584808 + 193543257} \times 100 = 7.1\ \%$$

Endrin Breakdown: Criteria

< 15%

Data File: /var/chem/gcsv16b.i/2120315p.b/sv16b003.d
Report Date: 15-Mar-2012 14:00

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv16b.i Injection Date: 15-MAR-2012 14:37
Lab File ID: sv16b003.d Init. Cal. Date(s): 13-MAR-2012 13-MAR-2012
Analysis Type: WATER Init. Cal. Times: 09:15 18:42
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv16b.i/2120315p.b/pestXLB.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	3050989	3126588	0.010	-2.47784	20.00000	Averaged
2 alpha-BHC	4275918	4589623	0.010	-7.33656	20.00000	Averaged
3 gamma-BHC (Lindane)	3760872	3999197	0.010	-6.33694	20.00000	Averaged
6 beta-BHC	1468076	1588849	0.010	-8.22661	20.00000	Averaged
7 delta-BHC	3415565	3834603	0.010	-12.26847	20.00000	Averaged
4 Heptachlor	3178381	3286686	0.010	-3.40756	20.00000	Averaged
5 Aldrin	3063251	3265773	0.010	-6.61134	20.00000	Averaged
8 Heptachlor epoxide	2646482	2738515	0.010	-3.47757	20.00000	Averaged
10 gamma-Chlordane	2670745	2908046	0.010	-8.88517	20.00000	Averaged
11 alpha-Chlordane	2468292	2755643	0.010	-11.64172	20.00000	Averaged
9 Endosulfan I	2298643	2495064	0.010	-8.54510	20.00000	Averaged
12 4,4'-DDE	2716246	2871400	0.010	-5.71205	20.00000	Averaged
13 Dieldrin	2736973	2843154	0.010	-3.87951	20.00000	Averaged
14 Endrin	2233852	2255424	0.010	-0.96571	20.00000	Averaged
15 4,4'-DDD	2251659	2437462	0.010	-8.25186	20.00000	Averaged
16 Endosulfan II	2246567	2338095	0.010	-4.07415	20.00000	Averaged
18 Endrin aldehyde	1759930	1927957	0.010	-9.54735	20.00000	Averaged
17 4,4'-DDT	2379916	2445020	0.010	-2.73558	20.00000	Averaged
20 Endosulfan sulfate	2079186	2248132	0.010	-8.12559	20.00000	Averaged
19 Methoxychlor	1186013	1259837	0.010	-6.22456	20.00000	Averaged
21 Endrin ketone	2464333	2620364	0.010	-6.33157	20.00000	Averaged
$ 22 Decachlorobiphenyl	1750950	1852370	0.010	-5.79232	20.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 6.40251
Maximun Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv16b.i/2120315p.b/sv16b010.d
Report Date: 16-Mar-2012 07:15

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv16b.i Injection Date: 15-MAR-2012 16:45
Lab File ID: sv16b010.d Init. Cal. Date(s): 13-MAR-2012 13-MAR-2012
Analysis Type: WATER Init. Cal. Times: 09:15 18:42
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv16b.i/2120315p.b/pestXLB.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	3050989	2946551	0.010	3.42309	20.00000	Averaged
2 alpha-BHC	4275918	4276543	0.010	-0.01462	20.00000	Averaged
3 gamma-BHC (Lindane)	3760872	3762660	0.010	-0.04754	20.00000	Averaged
6 beta-BHC	1468076	1495164	0.010	-1.84509	20.00000	Averaged
7 delta-BHC	3415565	3593609	0.010	-5.21272	20.00000	Averaged
4 Heptachlor	3178381	3102601	0.010	2.38422	20.00000	Averaged
5 Aldrin	3063251	3066497	0.010	-0.10596	20.00000	Averaged
8 Heptachlor epoxide	2646482	2601482	0.010	1.70037	20.00000	Averaged
10 gamma-Chlordane	2670745	2730645	0.010	-2.24280	20.00000	Averaged
11 alpha-Chlordane	2468292	2594586	0.010	-5.11669	20.00000	Averaged
9 Endosulfan I	2298643	2354281	0.010	-2.42049	20.00000	Averaged
12 4,4'-DDE	2716246	2682342	0.010	1.24821	20.00000	Averaged
13 Dieldrin	2736973	2665878	0.010	2.59756	20.00000	Averaged
14 Endrin	2233852	1985320	0.010	11.12572	20.00000	Averaged
15 4,4'-DDD	2251659	2282718	0.010	-1.37940	20.00000	Averaged
16 Endosulfan II	2246567	2189381	0.010	2.54546	20.00000	Averaged
18 Endrin aldehyde	1759930	1817242	0.010	-3.25647	20.00000	Averaged
17 4,4'-DDT	2379916	2261142	0.010	4.99066	20.00000	Averaged
20 Endosulfan sulfate	2079186	2102257	0.010	-1.10963	20.00000	Averaged
19 Methoxychlor	1186013	1149711	0.010	3.06086	20.00000	Averaged
21 Endrin ketone	2464333	2494136	0.010	-1.20939	20.00000	Averaged
$ 22 Decachlorobiphenyl	1750950	1764155	0.010	-0.75418	20.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 2.62687
Maximun Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

PESTICIDE SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME: 3/13/12	Start: 940	End: 1100	BATCH NO:	476436 Pest
MATRIX:	WATER ☐	SOIL ☐	OTHER ☐	LEVEL:	LOW ☐	MEDIUM ☐

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	Init pH	SAMPLE TYPE	COMMENT	METHOD
1	QC ACCOUNT	MB for HBN 476436 [EXTO/31107]	1041171	1000	10.0		MB		LIQUID LIQUID/3520 NA
2	QC ACCOUNT	LCS for HBN 476436 [EXTO/31107	1041172	1000	10.0		LCS		
3	QC ACCOUNT	LCSD for HBN 476436 [EXTO/3110	1041173	1000	10.0		LCSD		SEPARATORY FUNNEL/3510 ✓
4	4574	EB-2012-0309	21203120612	970	10.0		EQBK		
5	4574	MW-1	21203120701	980	10.0		SAMPLE		GPC CLEANUP/3640 NA
6	4574	MW-1-MS	21203120702	990	10.0		MS		
7	4574	MS-1-MSD	21203120709	990	10.0		MSD		SONICATOR/3550 NA
8	4574	MW-1-D	21203120703	990	10.0		FLDDUP		
9	4574	MW-2	21203120704	990	10.0		SAMPLE		FLORISIL CLEANUP/3620 NA
10	4574	MW-3	21203120705	980	10.0		SAMPLE		
11	4574	MW-4	21203120706	980	10.0		SAMPLE		PCB H2So4/3665A CLEANUP NA
12	4574	EB-2012-0309	21203120707	930	10.0		EQBK		
* 13	4380	MW-22	21203130104	970	10.0		SAMPLE		WASTE DILUTION/3580 NA
14									
15									TCLP EXTRACTION FLUID 1 NA
16									
17									TCLP EXTRACTION FLUID 2 NA
18									
19									MECL2/Acetone No: NA
20									
21									ACETONE LOT NO: NA
22									
23									MECL2 Lot No: 114952
24									
25									HEXANE Lot No: 101667
26									
27									Sodium Sulfate Lot No: 112777
28									

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

BALANCE ID: NA TEMP: 98

SURROGATE ID	507-93-1	8081 SPIKE ID		608 SPIKE ID	507-92-6	TECHNICIAN	DATE
VOLUME	1.0 ml	VOLUME		VOLUME	1.0 ml	AMR	3/13/12
CONCENTRATION	0.5 µg/ml	CONCENTRATION		CONCENTRATION	0.5 µg/ml		
ACID						SUPERVISOR	DATE
SPIKE WITNESS	GPA						3/13/12

Revision 3, 10/04/2010

* out of Hold today

212031301 93

PESTICIDE SAMPLE PREPARATION FORM

3/14/12

EXTRACTION DATE/TIME: 540	Start: 3/13/12	End: 830	BATCH NO:	476507 Pest
MATRIX:	WATER ☐ SOIL ☑ OTHER ☐		LEVEL:	LOW ☑ MEDIUM ☐

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	Init pH	SAMPLE TYPE	COMMENT	METHOD
1	QC ACCOUNT	MB for HBN 476507 [EXTO/31117]	1041539	30.0	10.0		MB		LIQUID LIQUID/3520 NA
2	QC ACCOUNT	LCS for HBN 476507 [EXTO/31117	1041540	30.0	10.0		LCS		
3	QC ACCOUNT	LCSD for HBN 476507 [EXTO/3111	1041541	30.0	10.0		LCSD		SEPARATORY FUNNEL/3510 NA
4	4380	MW-22-0-2	21203130101	30.0	10.0		SAMPLE		
5	4380	MW-22-3-5	21203130102	30.1	10.0		SAMPLE		GPC CLEANUP/3640 NA
6	4380	MW-22-8-10	21203130103	30.0	10.0		SAMPLE		
7	2377	A (X) 4	21203131102	30.0	10.0		SAMPLE		SONICATOR/3550 ✓
8	2377	B 4	21203131103	30.0	10.0		SAMPLE		
9	2377	C 5	21203131104	30.2	10.0		SAMPLE		FLORISIL CLEANUP/3620 NA
10	QC ACCOUNT	C(1041253MS)	1041542	30.0	10.0		MS		
11	QC ACCOUNT	C(1041253MSD)	1041543	30.0	10.0		MSD		PCB H2So4/3665A CLEANUP NA
12									
13									WASTE DILUTION/3580 NA
14									
15									TCLP EXTRACTION FLUID1 NA
16									
17									TCLP EXTRACTION FLUID2 NA
18									
19									MECL2/Acetone No: 104125
20									
21									ACETONE LOT NO: NA
22									
23									MECL2 Lot No: 116952
24									
25									HEXANE Lot No: NA
26									
27									Sodium Sulfate Lot No: 115094
28									

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

BALANCE ID: MB3557 TEMP: 101°

SURROGATE ID	507-43-1	8081 SPIKE ID		608 SPIKE ID	507-41-6	TECHNICIAN	DATE
VOLUME	1 ml	VOLUME		VOLUME	1 ml	BD 7	03-16-12
CONCENTRATION	0.5 ug/ml	CONCENTRATION		CONCENTRATION	0.5 ug/ml		
ACID						SUPERVISOR	DATE
SPIKE WITNESS	JBB						3/14/12

Revision 3, 10/04/2010

212031301 94

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/14/2012
Instrument: gcsv15.i
Method File: /var/chem/gcsv15.i/2120313.b/pest35ms.m
Batch: /var/chem/gcsv15.i/2120313.b
Column-Detector: RTX-35MS-30M

Sample ID	Standard ID	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
hex lot#115740		sv15a001.d	1000.00 ml	13-MAR-2012 08:18	1.000	tls	1	8081
deg		sv15a002.d	1000.00 ml	13-MAR-2012 08:36	1.000	tls	2	deg
1207		sv15a003.d	1000.00 ml	13-MAR-2012 08:54	1.000	tls	3	8081
1206		sv15a004.d	1000.00 ml	13-MAR-2012 09:12	1.000	tls	4	8081
1201		sv15a005.d	1000.00 ml	13-MAR-2012 09:30	1.000	tls	5	8081
1202		sv15a006.d	1000.00 ml	13-MAR-2012 09:48	1.000	tls	6	8081
1203		sv15a007.d	1000.00 ml	13-MAR-2012 10:06	1.000	tls	7	8081
1204		sv15a008.d	1000.00 ml	13-MAR-2012 10:24	1.000	tls	8	8081
1205		sv15a009.d	1000.00 ml	13-MAR-2012 10:42	1.000	tls	9	8081
1600		sv15a010.d	1.00 ml	13-MAR-2012 11:00	1.000	tls	10	8081
1205		sv15a011.d	1000.00 ml	13-MAR-2012 11:18	1.000	tls	11	chlor
1201		sv15a012.d	1000.00 ml	13-MAR-2012 11:36	1.000	tls	12	tox
1205		sv15a013.d	1000.00 ml	13-MAR-2012 11:54	1.000	tls	13	tox
21203050405		sv15a014.d	30.00 g	13-MAR-2012 12:12	1.000	tls	14	pest
21203050406		sv15a015.d	30.00 g	13-MAR-2012 12:30	1.000	tls	15	pest
21203050407		sv15a016.d	30.00 g	13-MAR-2012 12:48	1.000	tls	16	pest
21203050401		sv15a017.d	30.10 g	13-MAR-2012 13:06	1.000	tls	17	pest
21203050402		sv15a018.d	30.00 g	13-MAR-2012 13:24	1.000	tls	18	pest
21203050403		sv15a019.d	30.00 g	13-MAR-2012 13:42	1.000	tls	19	pest
21203050404		sv15a020.d	30.40 g	13-MAR-2012 14:00	1.000	tls	20	pest
21203050408		sv15a021.d	30.00 g	13-MAR-2012 14:19	1.000	tls	21	pest
21203050409		sv15a022.d	30.00 g	13-MAR-2012 14:37	1.000	tls	22	pest
1400		sv15a023.d	30.00 g	13-MAR-2012 14:55	1.000	tls	23	8081
1400		sv15a024.d	30.00 g	13-MAR-2012 15:13	1.000	tls	24	8081

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/16/2012
Instrument: gcsv15.i
Method File: /var/chem/gcsv15.i/2120315.b/pest35ms.m
Batch: /var/chem/gcsv15.i/2120315.b
Column-Detector: RTX-35MS-30M

Sample ID	Standard ID	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
hex lot#115740		sv15a001.d	1000.00 ml	15-MAR-2012 12:16	1.000	tls	1	pest
deg		sv15a002.d	1000.00 ml	15-MAR-2012 12:34	1.000	tls	2	deg
1400		sv15a003.d	1000.00 ml	15-MAR-2012 12:52	1.000	tls	3	8081
21203120612		sv15a004.d	970.00 ml	15-MAR-2012 13:10	1.000	tls	4	pest
21203120701		sv15a005.d	980.00 ml	15-MAR-2012 13:29	1.000	tls	5	pest
21203120702		sv15a006.d	990.00 ml	15-MAR-2012 13:47	1.000	tls	6	pest
21203120709		sv15a007.d	990.00 ml	15-MAR-2012 14:05	1.000	tls	7	pest
21203120703		sv15a008.d	990.00 ml	15-MAR-2012 14:23	1.000	tls	8	pest
21203120704		sv15a009.d	990.00 ml	15-MAR-2012 14:41	1.000	tls	9	pest
21203120705		sv15a010.d	980.00 ml	15-MAR-2012 15:00	1.000	tls	10	pest
21203120706		sv15a011.d	980.00 ml	15-MAR-2012 15:18	1.000	tls	11	pest
21203120707		sv15a012.d	930.00 ml	15-MAR-2012 15:36	1.000	tls	12	pest
21203130104		sv15a013.d	970.00 ml	15-MAR-2012 15:54	1.000	tls	13	pest
1400		sv15a014.d	30.00 g	15-MAR-2012 16:12	1.000	tls	14	8081
1400		sv15a015.d	30.00 g	15-MAR-2012 16:30	1.000	tls	15	8081
1041171		sv15a016.d	1000.00 ml	15-MAR-2012 16:48	1.000	tls	16	pest
1041172		sv15a017.d	1000.00 ml	15-MAR-2012 17:07	1.000	tls	17	8081
1041173		sv15a018.d	1000.00 ml	15-MAR-2012 17:25	1.000	tls	18	8081
1400		sv15a019.d	30.00 g	15-MAR-2012 17:43	1.000	tls	14	8081
1400		sv15a020.d	30.00 g	15-MAR-2012 18:01	1.000	tls	15	8081

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/16/2012
Instrument: gcsv15.i
Method File: /var/chem/gcsv15.i/2120316.b/pest35ms.m
Batch: /var/chem/gcsv15.i/2120316.b
Column-Detector: RTX-35MS-30M

Sample ID	Standard ID	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
hex lot#115740		sv15a001.d	1000.00 ml	16-MAR-2012 08:39	1.000	tls	1	pest
deg		sv15a002.d	1000.00 ml	16-MAR-2012 08:57	1.000	tls	2	deg
1400		sv15a003.d	1000.00 ml	16-MAR-2012 09:15	1.000	tls	3	8081
1041884		sv15a004.d	1000.00 ml	16-MAR-2012 09:35	1.000	tls	4	pest
1041885		sv15a005.d	1000.00 ml	16-MAR-2012 09:54	1.000	tls	5	8081
1041886		sv15a006.d	1000.00 ml	16-MAR-2012 10:12	1.000	tls	6	8081
21203124701		sv15a007.d	100.00 ml	16-MAR-2012 10:30	1.000	tls	7	tclp
21203130701		sv15a008.d	100.00 ml	16-MAR-2012 10:48	1.000	tls	8	tclp
1041887		sv15a009.d	100.00 ml	16-MAR-2012 11:06	1.000	tls	9	8081
1041888		sv15a010.d	100.00 ml	16-MAR-2012 11:24	1.000	tls	10	8081
21203130801		sv15a011.d	100.00 ml	16-MAR-2012 11:43	1.000	tls	11	tclp
tblk		sv15a012.d	100.00 ml	16-MAR-2012 12:01	1.000	tls	12	tclp
1400		sv15a013.d	1000.00 ml	16-MAR-2012 12:19	1.000	tls	13	8081
21203130104		sv15a014.d	970.00 ml	16-MAR-2012 13:43	50.000	tls	14	pest
1400		sv15a015.d	1000.00 ml	16-MAR-2012 14:01	1.000	tls	15	8081

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/14/2012
Instrument: gcsv15b.i
Method File: /var/chem/gcsv15b.i/2120313.b/pestXLB.m
Batch: /var/chem/gcsv15b.i/2120313.b
Column-Detector: RTX-XLB-30M

Sample ID	Standard ID	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
hex lot#115740		sv15b001.d	1000.00 ml	13-MAR-2012 08:36	1.000	tls	1	8081
deg		sv15b002.d	1000.00 ml	13-MAR-2012 08:54	1.000	tls	2	deg
1207		sv15b003.d	1000.00 ml	13-MAR-2012 09:12	1.000	tls	3	8081
1206		sv15b004.d	1000.00 ml	13-MAR-2012 09:30	1.000	tls	4	8081
1201		sv15b005.d	1000.00 ml	13-MAR-2012 09:48	1.000	tls	5	8081
1202		sv15b006.d	1000.00 ml	13-MAR-2012 10:06	1.000	tls	6	8081
1203		sv15b007.d	1000.00 ml	13-MAR-2012 10:24	1.000	tls	7	8081
1204		sv15b008.d	1000.00 ml	13-MAR-2012 10:42	1.000	tls	8	8081
1205		sv15b009.d	1000.00 ml	13-MAR-2012 11:00	1.000	tls	9	8081
1600		sv15b010.d	1.00 ml	13-MAR-2012 11:18	1.000	tls	10	8081
1205		sv15b011.d	1000.00 ml	13-MAR-2012 11:36	1.000	tls	11	chlor
1201		sv15b012.d	1000.00 ml	13-MAR-2012 11:54	1.000	tls	12	tox
1205		sv15b013.d	1000.00 ml	13-MAR-2012 12:12	1.000	tls	13	tox
21203050405		sv15b014.d	30.00 g	13-MAR-2012 12:30	1.000	tls	14	8081
21203050402		sv15b018.d	30.00 g	13-MAR-2012 13:42	1.000	tls	18	8081
21203050403		sv15b019.d	30.00 g	13-MAR-2012 14:00	1.000	tls	19	8081
21203050404		sv15b020.d	30.40 g	13-MAR-2012 14:19	1.000	tls	20	8081
21203050408		sv15b021.d	30.00 g	13-MAR-2012 14:37	1.000	tls	21	8081
21203050409		sv15b022.d	30.00 g	13-MAR-2012 14:55	1.000	tls	22	pest
1400		sv15b023.d	30.00 g	13-MAR-2012 15:13	1.000	tls	23	8081
1400		sv15b024.d	30.00 g	13-MAR-2012 16:14	1.000	tls	24	8081
1400		sv15b025.d	30.00 g	13-MAR-2012 17:00	1.000	tls	25	8081

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/21/2012
Instrument: gcsv15b.i
Method File: /var/chem/gcsv15b.i/2120315.b/pestXLB.m
Batch: /var/chem/gcsv15b.i/2120315.b
Column-Detector: RTX-XLB-30M

Sample ID	Standard ID	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
hex lot#115740		sv15b001.d	1000.00 ml	15-MAR-2012 12:34	1.000	tls	1	8081
deg		sv15b002.d	1000.00 ml	15-MAR-2012 12:52	1.000	tls	2	deg
1400		sv15b003.d	1000.00 ml	15-MAR-2012 13:10	1.000	tls	3	8081
21203120612		sv15b004.d	970.00 ml	15-MAR-2012 13:29	1.000	tls	4	8081
21203120703		sv15b008.d	990.00 ml	15-MAR-2012 14:41	1.000	tls	8	8081
21203120704		sv15b009.d	990.00 ml	15-MAR-2012 15:00	1.000	tls	9	8081
21203120705		sv15b010.d	980.00 ml	15-MAR-2012 15:18	1.000	tls	10	8081
21203120706		sv15b011.d	980.00 ml	15-MAR-2012 15:36	1.000	tls	11	8081
21203120707		sv15b012.d	930.00 ml	15-MAR-2012 15:54	1.000	tls	12	8081
21203130104		sv15b013.d	970.00 ml	15-MAR-2012 16:12	1.000	tls	13	8081
1400		sv15b014.d	1000.00 ml	15-MAR-2012 16:30	1.000	tls	14	8081
1400		sv15b015.d	1000.00 ml	15-MAR-2012 16:48	1.000	tls	15	8081
1400		sv15b019.d	1000.00 ml	15-MAR-2012 18:01	1.000	tls	14	8081
1400		sv15b020.d	1000.00 ml	15-MAR-2012 18:19	1.000	tls	15	8081

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/21/2012
Instrument: gcsv15b.i
Method File: /var/chem/gcsv15b.i/2120316.b/pestXLB.m
Batch: /var/chem/gcsv15b.i/2120316.b
Column-Detector: RTX-XLB-30M

Sample ID	Standard ID	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
hex lot#115740		sv15b001.d	1000.00 ml	16-MAR-2012 08:57	1.000	tls	1	8081
deg		sv15b002.d	1000.00 ml	16-MAR-2012 09:15	1.000	tls	2	deg
1400		sv15b003.d	1000.00 ml	16-MAR-2012 09:35	1.000	tls	3	8081
1041887		sv15b009.d	100.00 ml	16-MAR-2012 11:24	1.000	tls	9	pest
1041888		sv15b010.d	100.00 ml	16-MAR-2012 11:43	1.000	tls	10	pest
1400		sv15b013.d	1000.00 ml	16-MAR-2012 13:12	1.000	tls	13	8081
21203130104		sv15b014.d	970.00 ml	16-MAR-2012 14:01	50.000	tls	14	8081
1400		sv15b015.d	1000.00 ml	16-MAR-2012 14:19	1.000	tls	15	8081

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/21/2012
Instrument: gcsv16a.i
Method File: /var/chem/gcsv16a.i/2120313.b/pest35ms.m
Batch: /var/chem/gcsv16a.i/2120313.b
Column-Detector: RTX-35MS-30M

Sample ID	Standard ID	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
hex lot # 1157		sv16a001.d	1000.00 ml	13-MAR-2012 08:20	1.000	tls	1	8081
deg		sv16a002.d	1000.00 ml	13-MAR-2012 08:38	1.000	tls	2	deg
1207		sv16a003.d	1000.00 ml	13-MAR-2012 08:56	1.000	tls	3	8081
1206		sv16a004.d	1000.00 ml	13-MAR-2012 09:15	1.000	tls	4	8081
1201		sv16a005.d	1000.00 ml	13-MAR-2012 09:33	1.000	tls	5	8081
1202		sv16a006.d	1000.00 ml	13-MAR-2012 09:51	1.000	tls	6	8081
1203		sv16a007.d	1000.00 ml	13-MAR-2012 10:10	1.000	tls	7	8081
1204		sv16a008.d	1000.00 ml	13-MAR-2012 10:28	1.000	tls	8	8081
1205		sv16a009.d	1000.00 ml	13-MAR-2012 10:46	1.000	tls	9	8081
1600		sv16a010.d	1.00 ml	13-MAR-2012 11:05	1.000	tls	10	8081
1205		sv16a011.d	1000.00 ml	13-MAR-2012 11:23	1.000	tls	11	chlor
1201		sv16a012.d	1000.00 ml	13-MAR-2012 11:41	1.000	tls	12	tox
1205		sv16a013.d	1000.00 ml	13-MAR-2012 12:00	1.000	tls	13	tox
1203		sv16a014.d	1000.00 ml	13-MAR-2012 12:18	1.000	tls	14	aro1221
1203		sv16a015.d	1000.00 ml	13-MAR-2012 12:36	1.000	tls	15	aro1232
1203		sv16a016.d	1000.00 ml	13-MAR-2012 12:55	1.000	tls	16	aro1242
1203		sv16a017.d	1000.00 ml	13-MAR-2012 13:13	1.000	tls	17	aro1248
1203		sv16a018.d	1000.00 ml	13-MAR-2012 13:31	1.000	tls	18	aro1254
1203		sv16a019.d	1000.00 ml	13-MAR-2012 13:49	1.000	tls	19	ar1262
1203		sv16a020.d	1000.00 ml	13-MAR-2012 14:08	1.000	tls	20	ar1268
1207		sv16a021.d	1000.00 ml	13-MAR-2012 14:26	1.000	tls	21	aro1260
1206		sv16a022.d	1000.00 ml	13-MAR-2012 14:44	1.000	tls	22	aro1260
1201		sv16a023.d	1000.00 ml	13-MAR-2012 15:03	1.000	tls	23	aro1260
1202		sv16a024.d	1000.00 ml	13-MAR-2012 15:21	1.000	tls	24	aro1260
1203		sv16a025.d	1000.00 ml	13-MAR-2012 15:39	1.000	tls	25	aro1260
1204		sv16a026.d	1000.00 ml	13-MAR-2012 15:57	1.000	tls	26	aro1260
1205		sv16a027.d	1000.00 ml	13-MAR-2012 16:16	1.000	tls	27	aro1260
1600		sv16a028.d	1.00 ml	13-MAR-2012 16:34	1.000	tls	28	aro1260
1201		sv16a029.d	1000.00 ml	13-MAR-2012 16:52	1.000	tls	29	alachlor
1202		sv16a030.d	1000.00 ml	13-MAR-2012 17:11	1.000	tls	30	alachlor
1206		sv16a031.d	1000.00 ml	13-MAR-2012 17:29	1.000	tls	31	alachlor
1203		sv16a032.d	1000.00 ml	13-MAR-2012 17:47	1.000	tls	32	alachlor
1204		sv16a033.d	1000.00 ml	13-MAR-2012 18:06	1.000	tls	33	alachlor
1205		sv16a034.d	1000.00 ml	13-MAR-2012 18:24	1.000	tls	34	alachlor
1600		sv16a035.d	1.00 ml	13-MAR-2012 18:42	1.000	tls	35	alachlor
deg		sv16a036.d	1000.00 ml	13-MAR-2012 19:00	1.000	tls	36	deg

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/19/2012
Instrument: gcsv16a.i
Method File: /var/chem/gcsv16a.i/2120315p.b/pest35ms.m
Batch: /var/chem/gcsv16a.i/2120315p.b
Column-Detector: RTX-35MS-30M

Sample ID	Standard ID	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
hex lot # 1157		sv16a001.d	1000.00 ml	15-MAR-2012 13:42	1.000	tls	1	pest
deg		sv16a002.d	1000.00 ml	15-MAR-2012 14:00	1.000	tls	2	deg
1400		sv16a003.d	1000.00 ml	15-MAR-2012 14:19	1.000	tls	3	8081
1041539		sv16a004.d	30.00 g	15-MAR-2012 14:37	1.000	tls	4	pest
1041540		sv16a005.d	30.00 g	15-MAR-2012 14:55	1.000	tls	5	8081
1041541		sv16a006.d	30.00 g	15-MAR-2012 15:14	1.000	tls	6	8081
21203130101		sv16a007.d	30.00 g	15-MAR-2012 15:32	1.000	tls	7	pest
21203130102		sv16a008.d	30.10 g	15-MAR-2012 15:50	1.000	tls	8	pest
21203130103		sv16a009.d	30.00 g	15-MAR-2012 16:09	1.000	tls	9	pest
1400		sv16a010.d	1000.00 ml	15-MAR-2012 16:27	1.000	tls	10	8081
1400		sv16a011.d	1000.00 ml	15-MAR-2012 16:45	1.000	tls	11	8081
deg		sv16a012.d	1000.00 ml	16-MAR-2012 08:42	1.000	tls	12	deg
1400		sv16a013.d	1000.00 ml	16-MAR-2012 09:11	1.000	tls	13	8081

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/21/2012
Instrument: gcsv16b.i
Method File: /var/chem/gcsv16b.i/2120313.b/pestXLB.m
Batch: /var/chem/gcsv16b.i/2120313.b
Column-Detector: RTX-XLB-30M

Sample ID	Standard ID	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
hex lot # 1157		sv16b001.d	1000.00 ml	13-MAR-2012 08:38	1.000	tls	1	8081
deg		sv16b002.d	1000.00 ml	13-MAR-2012 08:56	1.000	tls	2	deg
1207		sv16b003.d	1000.00 ml	13-MAR-2012 09:15	1.000	tls	3	8081
1206		sv16b004.d	1000.00 ml	13-MAR-2012 09:33	1.000	tls	4	8081
1201		sv16b005.d	1000.00 ml	13-MAR-2012 09:51	1.000	tls	5	8081
1202		sv16b006.d	1000.00 ml	13-MAR-2012 10:10	1.000	tls	6	8081
1203		sv16b007.d	1000.00 ml	13-MAR-2012 10:28	1.000	tls	7	8081
1204		sv16b008.d	1000.00 ml	13-MAR-2012 10:46	1.000	tls	8	8081
1205		sv16b009.d	1000.00 ml	13-MAR-2012 11:05	1.000	tls	9	8081
1600		sv16b010.d	1.00 ml	13-MAR-2012 11:23	1.000	tls	10	8081
1205		sv16b011.d	1000.00 ml	13-MAR-2012 11:41	1.000	tls	11	chlor
1201		sv16b012.d	1000.00 ml	13-MAR-2012 12:00	1.000	tls	12	tox
1205		sv16b013.d	1000.00 ml	13-MAR-2012 12:18	1.000	tls	13	tox
1203		sv16b014.d	1000.00 ml	13-MAR-2012 12:36	1.000	tls	14	aro1221
1203		sv16b015.d	1000.00 ml	13-MAR-2012 12:55	1.000	tls	15	aro1232
1203		sv16b016.d	1000.00 ml	13-MAR-2012 13:13	1.000	tls	16	aro1242
1203		sv16b017.d	1000.00 ml	13-MAR-2012 13:31	1.000	tls	17	aro1248
1203		sv16b018.d	1000.00 ml	13-MAR-2012 13:49	1.000	tls	18	aro1254
1203		sv16b019.d	1000.00 ml	13-MAR-2012 14:08	1.000	tls	19	ar1262
1203		sv16b020.d	1000.00 ml	13-MAR-2012 14:26	1.000	tls	20	ar1268
1207		sv16b021.d	1000.00 ml	13-MAR-2012 14:44	1.000	tls	21	aro1260
1206		sv16b022.d	1000.00 ml	13-MAR-2012 15:03	1.000	tls	22	aro1260
1201		sv16b023.d	1000.00 ml	13-MAR-2012 15:21	1.000	tls	23	aro1260
1202		sv16b024.d	1000.00 ml	13-MAR-2012 15:39	1.000	tls	24	aro1260
1203		sv16b025.d	1000.00 ml	13-MAR-2012 15:58	1.000	tls	25	aro1260
1204		sv16b026.d	1000.00 ml	13-MAR-2012 16:16	1.000	tls	26	aro1260
1205		sv16b027.d	1000.00 ml	13-MAR-2012 16:34	1.000	tls	27	aro1260
1600		sv16b028.d	1.00 ml	13-MAR-2012 16:52	1.000	tls	28	aro1260
1201		sv16b029.d	1000.00 ml	13-MAR-2012 17:11	1.000	tls	29	alachlor
1202		sv16b030.d	1000.00 ml	13-MAR-2012 17:29	1.000	tls	30	alachlor
1206		sv16b031.d	1000.00 ml	13-MAR-2012 17:47	1.000	tls	31	alachlor
1203		sv16b032.d	1000.00 ml	13-MAR-2012 18:06	1.000	tls	32	alachlor
1204		sv16b033.d	1000.00 ml	13-MAR-2012 18:24	1.000	tls	33	alachlor
1205		sv16b034.d	1000.00 ml	13-MAR-2012 18:42	1.000	tls	34	alachlor
1600		sv16b035.d	1.00 ml	13-MAR-2012 19:00	1.000	tls	35	alachlor
deg		sv16b036.d	1000.00 ml	13-MAR-2012 19:19	1.000	tls	36	deg

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/21/2012
Instrument: gcsv16b.i
Method File: /var/chem/gcsv16b.i/2120315p.b/pestXLB.m
Batch: /var/chem/gcsv16b.i/2120315p.b
Column-Detector: RTX-XLB-30M

Sample ID	Standard ID	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
hex lot # 1157		sv16b001.d	1000.00 ml	15-MAR-2012 14:00	1.000	tls	1	8081
deg		sv16b002.d	1000.00 ml	15-MAR-2012 14:19	1.000	tls	2	deg
1400		sv16b003.d	1000.00 ml	15-MAR-2012 14:37	1.000	tls	3	8081
21203130101		sv16b007.d	30.00 g	15-MAR-2012 15:50	1.000	tls	7	8081
21203130102		sv16b008.d	30.10 g	15-MAR-2012 16:09	1.000	tls	8	8081
21203130103		sv16b009.d	30.00 g	15-MAR-2012 16:27	1.000	tls	9	8081
1400		sv16b010.d	1000.00 ml	15-MAR-2012 16:45	1.000	tls	10	8081
1400		sv16b011.d	1000.00 ml	15-MAR-2012 17:03	1.000	tls	11	8081
deg		sv16b012.d	1000.00 ml	16-MAR-2012 09:11	1.000	tls	12	deg
1400		sv16b013.d	1000.00 ml	16-MAR-2012 09:37	1.000	tls	13	8081

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only			
CH2M Hill	4380	212031301	03/20/12
Client Name	Client #	Workorder #	Due Date

Report to:
Client: CH2M Hill
Address: 1000 Abernathy Rd
Atlanta GA 30328
Contact: David Nelson
Phone: 770-604-9182
Fax: 770-604-9183

Bill to:
Client: CH2M Hill
Address: 1000 Abernathy Rd
Atlanta GA 30328
Contact: David Nelson
Phone: 770-604-9182
Fax: 770-604-9183

Lab use only:
Custody Seal
used ☑ yes ☐ no
intact ☑ yes ☐ no
Temperature °C 2.2

P.O. Number:
Project Name/Number: Bainbridge /
Sampled By: Philip Jones

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Pesticide	Remarks:	Lab ID 03/13
Soil	3-8-12	0925		X	MW-22-02	NONE	1	X		1
Soil	3-8-12	0930		X	MW-22-3-5	NONE	1	X		2
Soil	3-8-12	0945		X	MW-22-8-10	NONE	1	X		3
GW	3-9-12	1020		X	MW-22	NONE	2	X		4

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	Fedex	3-9-12	1300
Fedex	[signature]	3/16/12	1145
8750 1582 6564			

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 212031301

Client: 4380 - CH2M Hill Constructors

Profile: 219218 - GPA Bainbridge

Line Item: 2 - Soil

Received by: Pfeifer, Ben J.

Received Date/Time: 3/10/2012 11:45:00 AM

Samples Received via: FEDEX

Number of Coolers Received: 1

Cooler tracking numbers(s): 8750 1582 6564

Cooler temperature(s): 2.2°C

Were all coolers received at a temperature of 0 - 6° C?	☑ Yes	☐ No	☐ N/A
Were all custody seals intact?	☑ Yes	☐ No	☐ N/A
Were all samples received in proper containers?	☑ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☑ Yes	☐ No	☐ N/A
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ N/A
Were all containers received in good condition?	☑ Yes	☐ No	☐ N/A
Were all VOA vials received with no head space?	☐ Yes	☐ No	☑ N/A
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ N/A
Did the Chain of Custody list the sampling technician?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☑ N/A

Notes/Comments:

APPENDIX H

Environmental International Corporation
GPA VIRP
May 1 through October 26, 2013

TASKS	May 13	Jun 13	Jul 13	Aug 13	Sep 13	Oct 1 - 26, 13	TOTAL
Task 4.1 Prelim planning & preparation	45	52	12	1	0	0	109
Task 4.2 Supplemental VIRP tasks	73	96	24	19	36	75	322
Task 4.3 RSW area soil remediation	23	100	0	28	28	7	186
Task 4.4 Drainage swale remediation	0	0	26	10	13	34	82
Task 4.5 Groundwater remediation	121	297	105	88	319	102	1,032
Task 4.6 Meetings and site visits	10	29	10	30	0	0	78
Task 4.7 Health and Safety	28	2	2	10	0	0	42
Total Hours	**300**	**575**	**178**	**185**	**396**	**217**	**1,851**

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

COMPLIANCE STATUS REPORT

EXHIBIT D
THIRD VIRP SEMI-ANNUAL PROGRESS REPORT

(INCLUDED ON CD)

ENVIRONMENTAL INTERNATIONAL CORPORATION
161 Kimball Bridge Road, Suite 100, Alpharetta, GA 30009
Phone: 770-772-7100, Fax: 770-772-0555
Email: rajmahadevaiah@eicusa.com
Website:www.eicusa.com

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
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
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B. Lab Analytical Results for AOC-3 Soil Sampling
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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

CLFMI (Chain Link Fence Manufacturers Institute), ***Security Fencing Recommendations***, http://www.associationsites.com/page.cfm?usr=clfma&pageid=887. Accessed 8/20/2013

DOD (Department of Defense), 1993, ***Military Handbook Design Guidelines for Security Fencing, Gates, Barriers and Guard Facilities,*** http://www.wbdg.org/ccb/NAVFAC/DMMHNAV/1013_10.pdf. Accessed 8/20/2013

Environmental International Corporation (EIC), 2012. "*VIRP Application, BHC Remediation*", Bainbridge, Georgia, July 31, 2012.

EIC, 2013a. "*First VIRP Semi-annual Progress Report, Georgia Ports Authority – Bainbridge Terminal, HIS Site No. 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19, Bainbridge, Decatur County, Georgia".* Bainbridge, Georgia, May 9, 2013.

EIC, 2013b. *"Report on First Quarter 2013 (Baseline) VIRP Quarterly MNA Ground Water Monitoring Event, GPA Bainbridge Terminal, Bainbridge, Georgia".* Bainbridge, Georgia, October, 2013.

EIC, 2013c. "*Report on Second Quarter 2013 VIRP Quarterly MNA Ground Water Monitoring Event, GPA Bainbridge Terminal, Bainbridge, Georgia".* Bainbridge, Georgia, October, 2013.

EIC, 2013d. "*Report on Third Quarter 2013 VIRP Quarterly MNA Ground Water Monitoring Event, GPA Bainbridge Terminal, Bainbridge, Georgia".* Bainbridge, Georgia, October, 2013.

EIC, 2013e. "*Second VIRP Semi-annual Progress Report, Georgia Ports Authority – Bainbridge Terminal, HIS Site No. 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19, Bainbridge, Decatur County, Georgia".* Bainbridge, Georgia, October 30, 2013.

Georgia Environmental Protection Division (EPD), 2012. *Letter from GA EPD to GPA, "Voluntary Investigation and Remediation Plan (VIRP) and Application, July 25, 2012, Comment Letter, Georgia Ports Authority – Bainbridge Terminal, Hazardous Site Inventory Number 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19".* November 2, 2012.

Georgia Wildlife Resources Division (WRD), 2013, *Natural Heritage Database*, www.georgiawildlife.com/node/1358. Accessed 11/1/2013

U. S. Environmental Protection Agency (EPA), 2011a. Soil Sampling, Operating Procedure, Number SESDPROC-300-R2, Region 4, U.S. Environmental Protection Agency, Science and Ecosystem Support Division, Athens, Georgia. December 20, 2011.

EPA, 2011b. Field Equipment Cleaning and Decontamination, Operating Procedure, Number SESDPROC-205-R2, Region 4, U.S. Environmental Protection Agency, Science and Ecosystem Support Division, Athens, Georgia. December 20, 2011.

EPA, 2013. Groundwater Sampling, Operating Procedure, Number SESDPROC-301-R3, Region 4, U.S. Environmental Protection Agency, Science and Ecosystem Support Division, Athens, Georgia. March 6, 2013.

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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

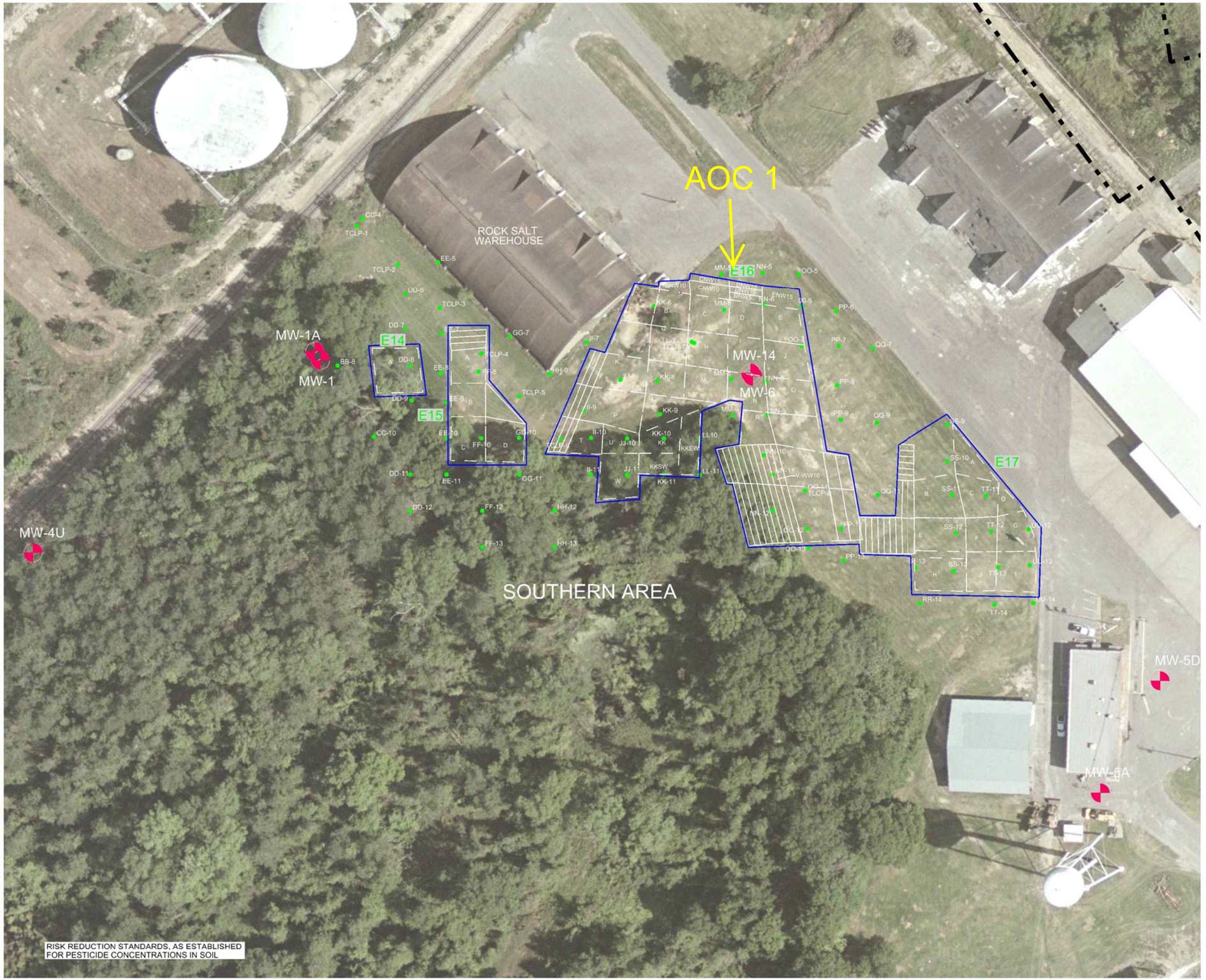
DRY = Well was dry and therefore could not be sampl

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)

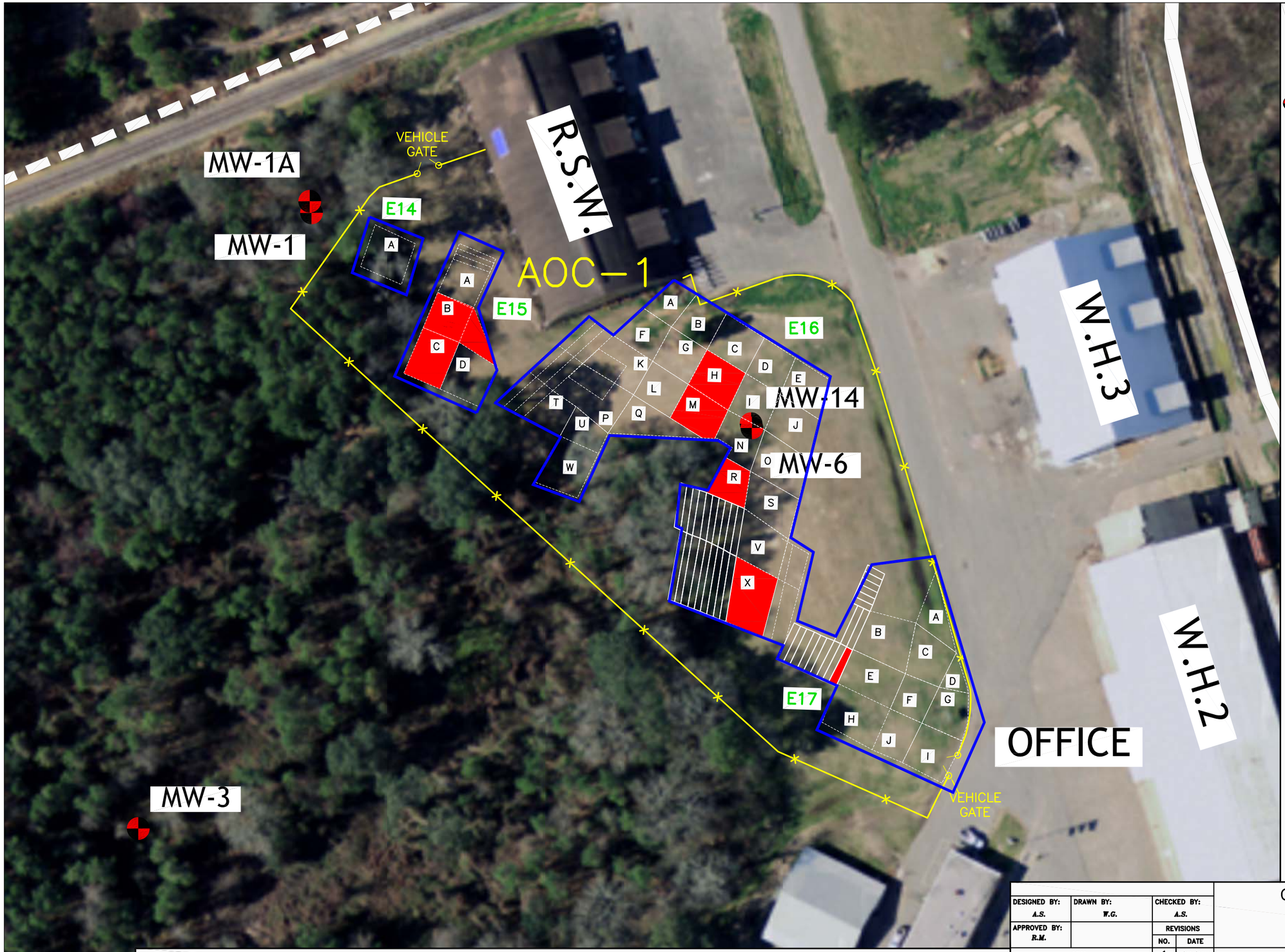
FIGURE 3–2: LOCATION OF PROPOSED SECURITY FENCE AROUND AOC–1

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:

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	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:

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	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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ALPHARETTA, GEORGIA 30009

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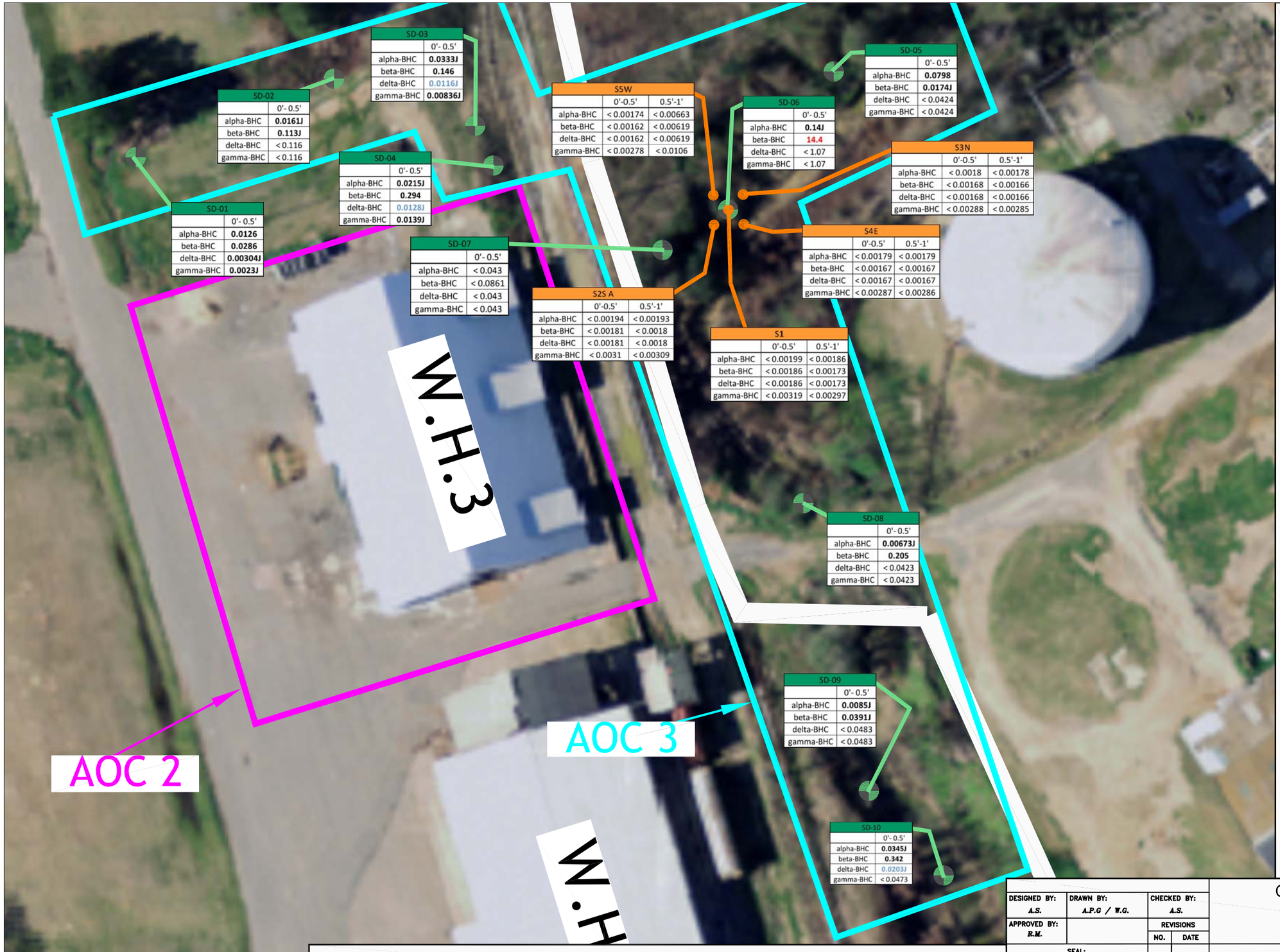

LEGEND:

- 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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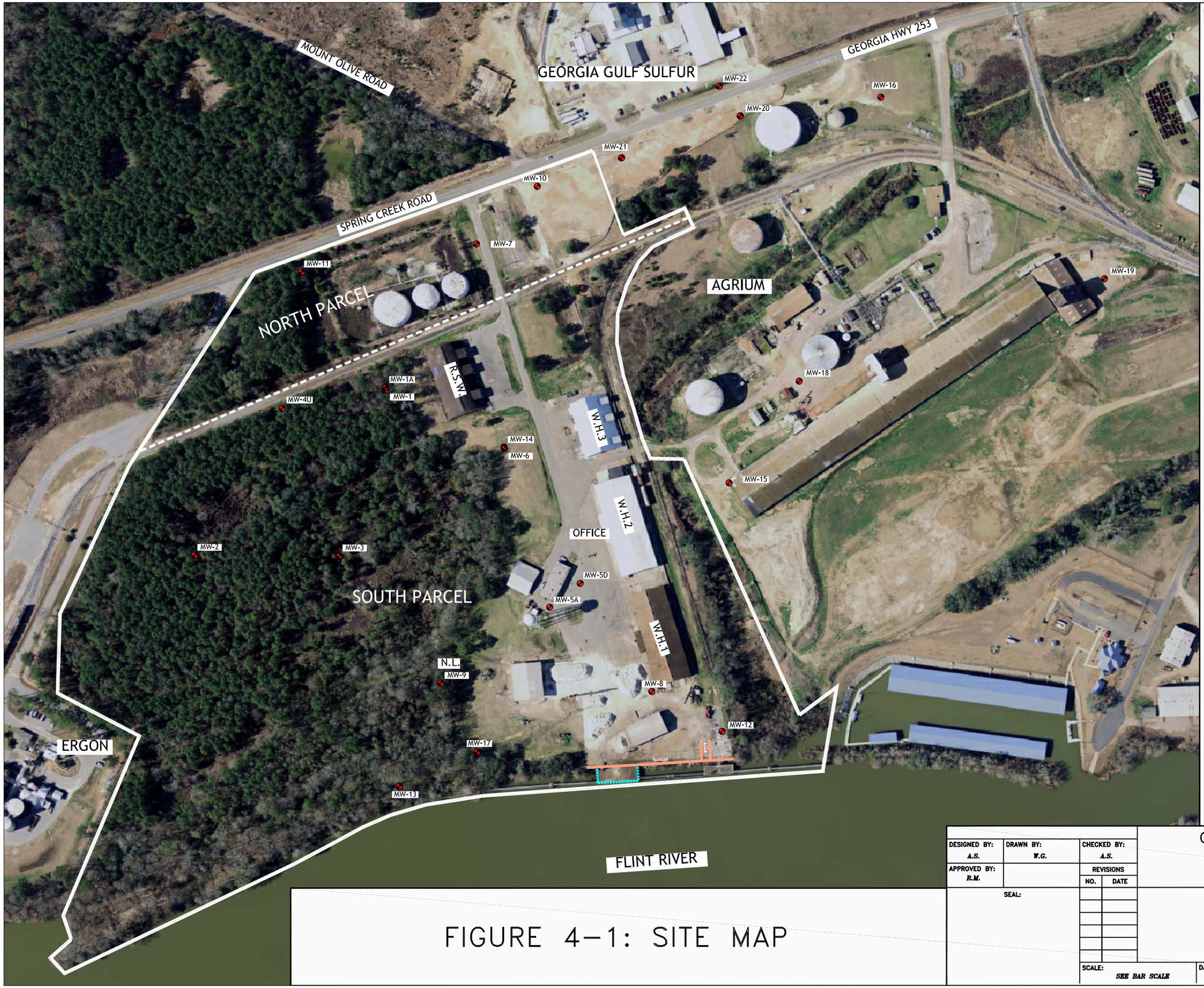

LEGEND:

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
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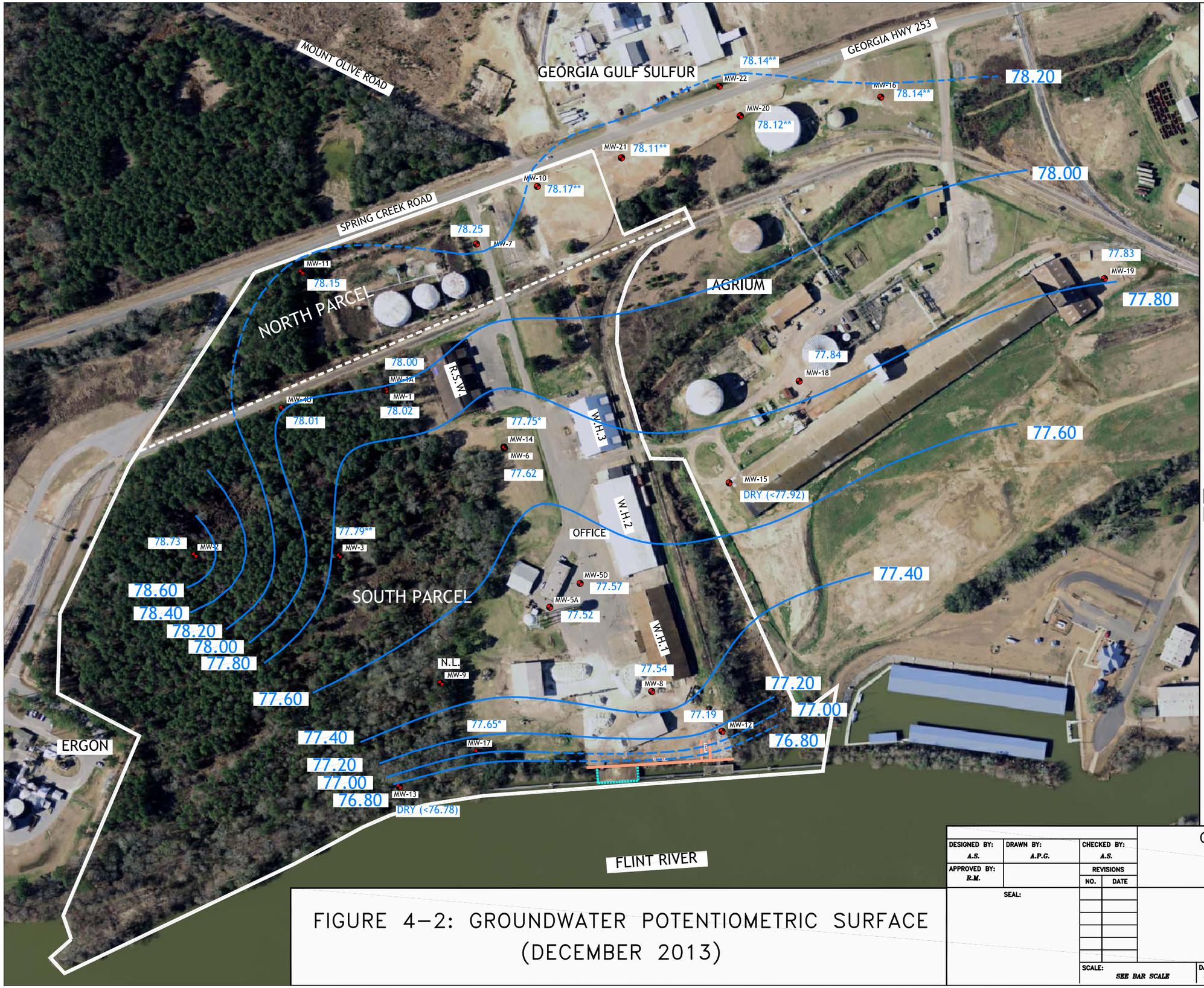

LEGEND:

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
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

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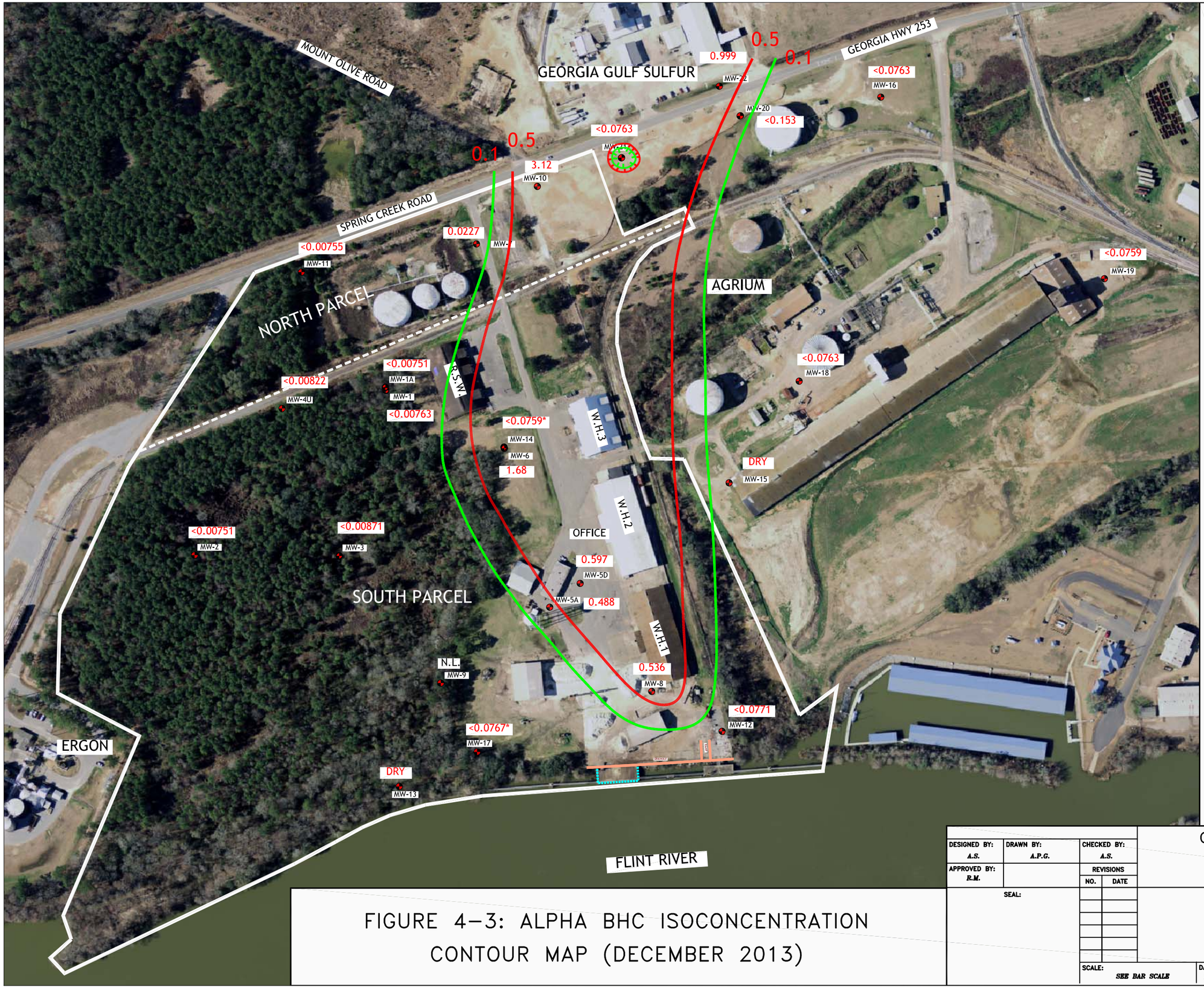

LEGEND:

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
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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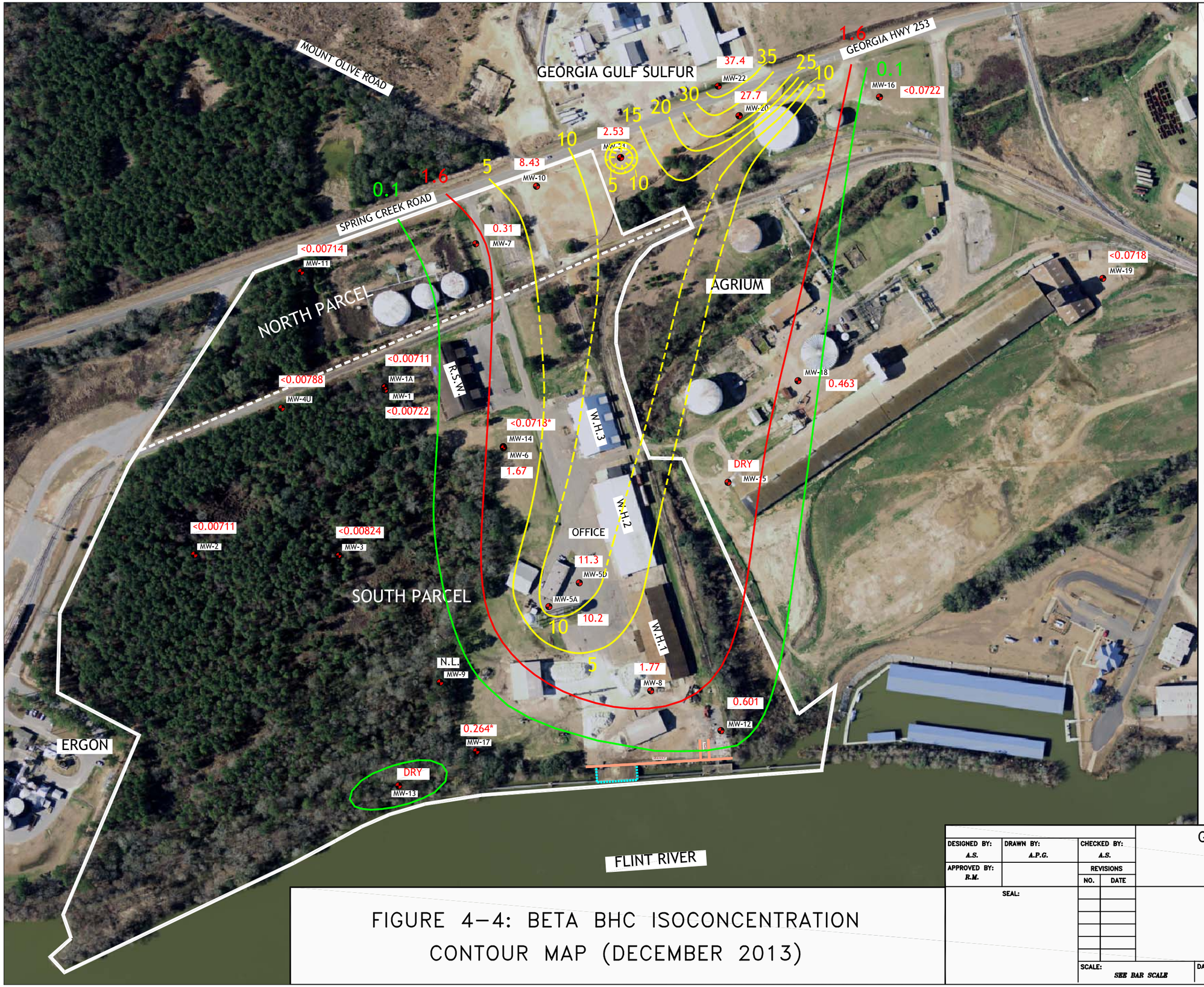


LEGEND:

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:

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.

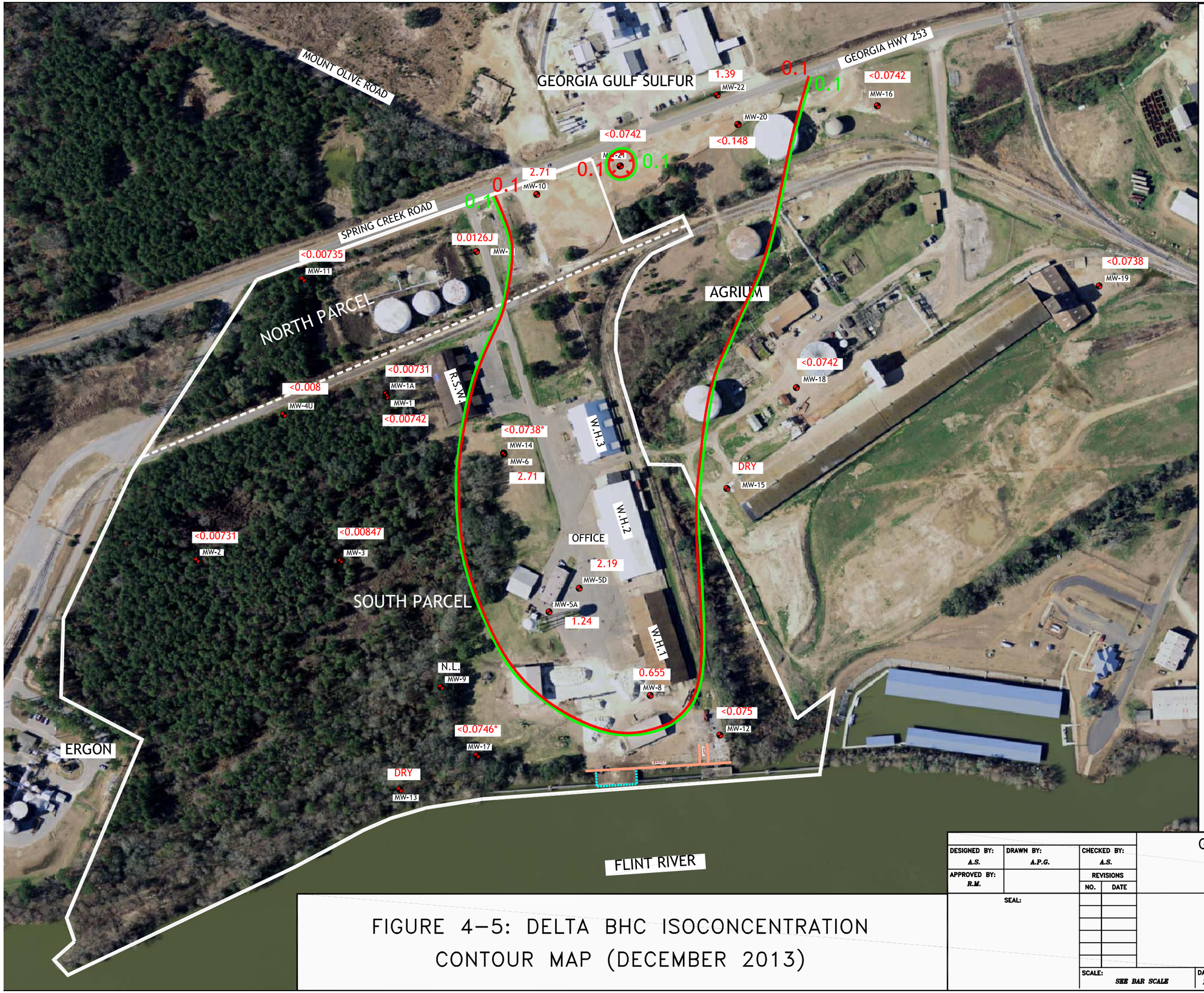
N

100 0 100 200 300

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

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

DESIGNED BY: A.S.	DRAWN BY: A.P.G.	CHECKED BY: A.S.	GEORGIA PORTS AUTHORITY BAINBRIDGE TERMINAL Bainbridge, Georgia
APPROVED BY: R.M.		REVISIONS NO. / DATE	
SEAL:			ENVIRONMENTAL INTERNATIONAL CORP. 161 KIMBALL BRIDGE ROAD ALPHARETTA, GEORGIA 30009
		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:

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 4−5: DELTA 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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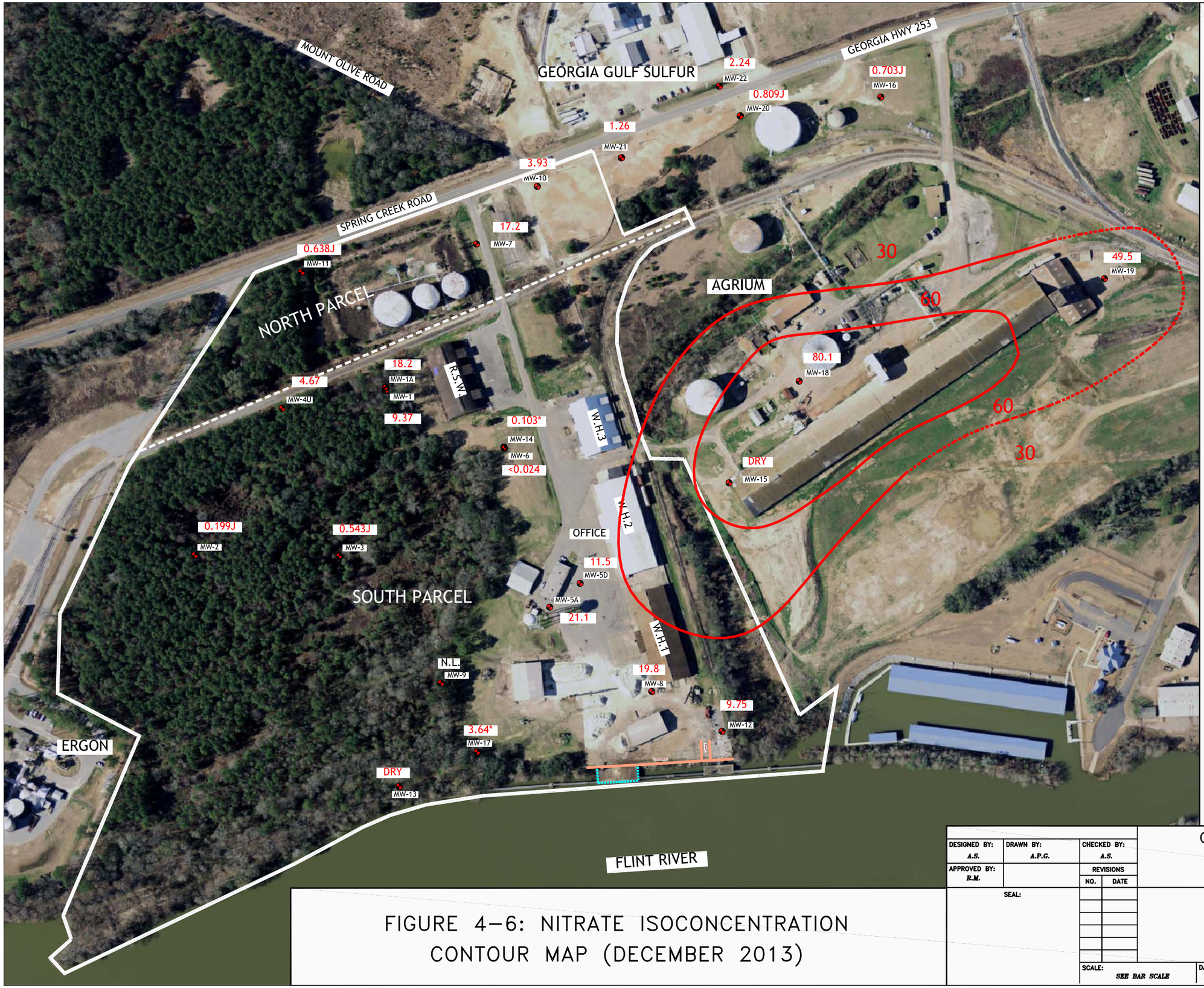

LEGEND:

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:

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 4–6: NITRATE 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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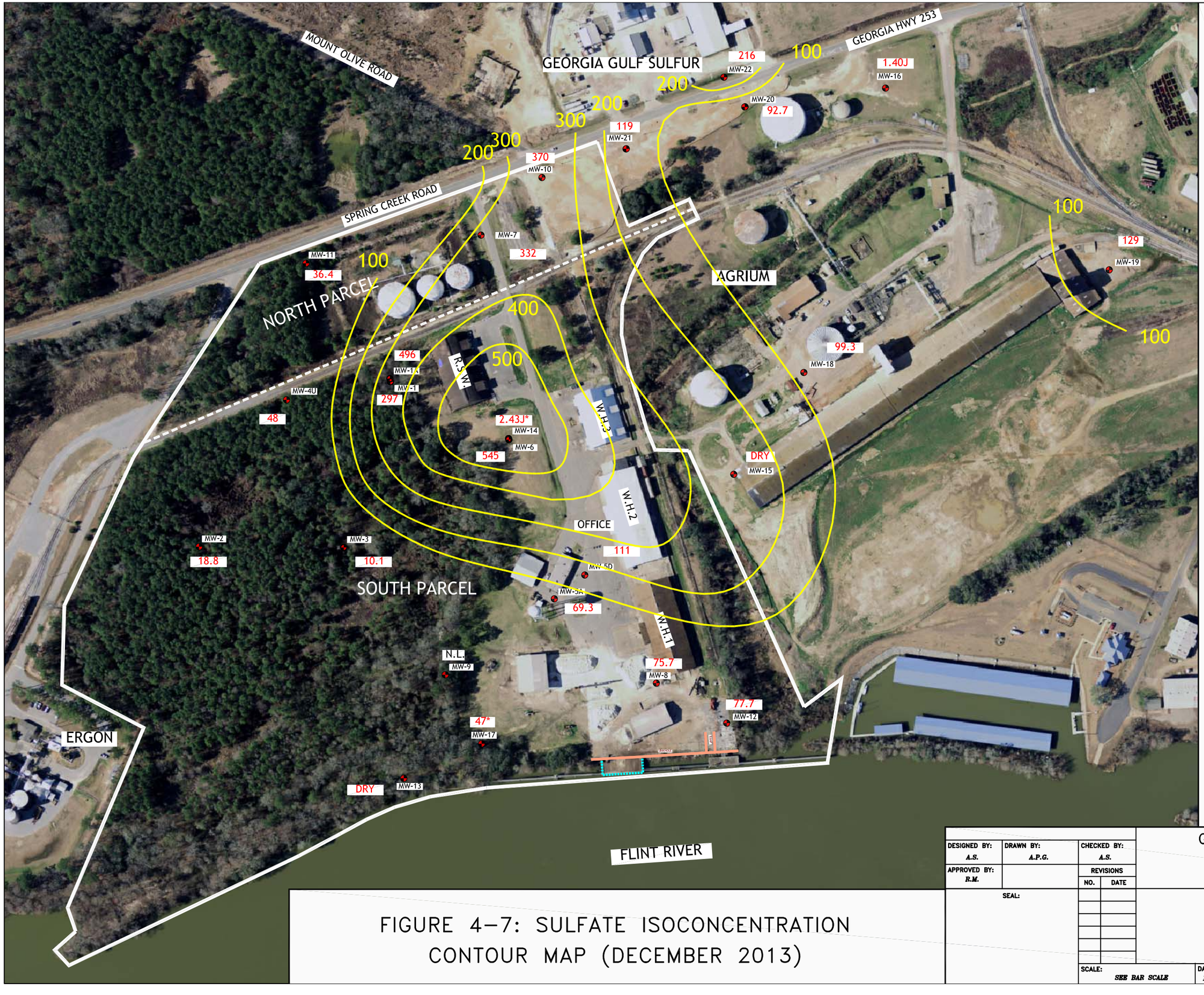

LEGEND:

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:

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 4–7: SULFATE 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
SEAL:			

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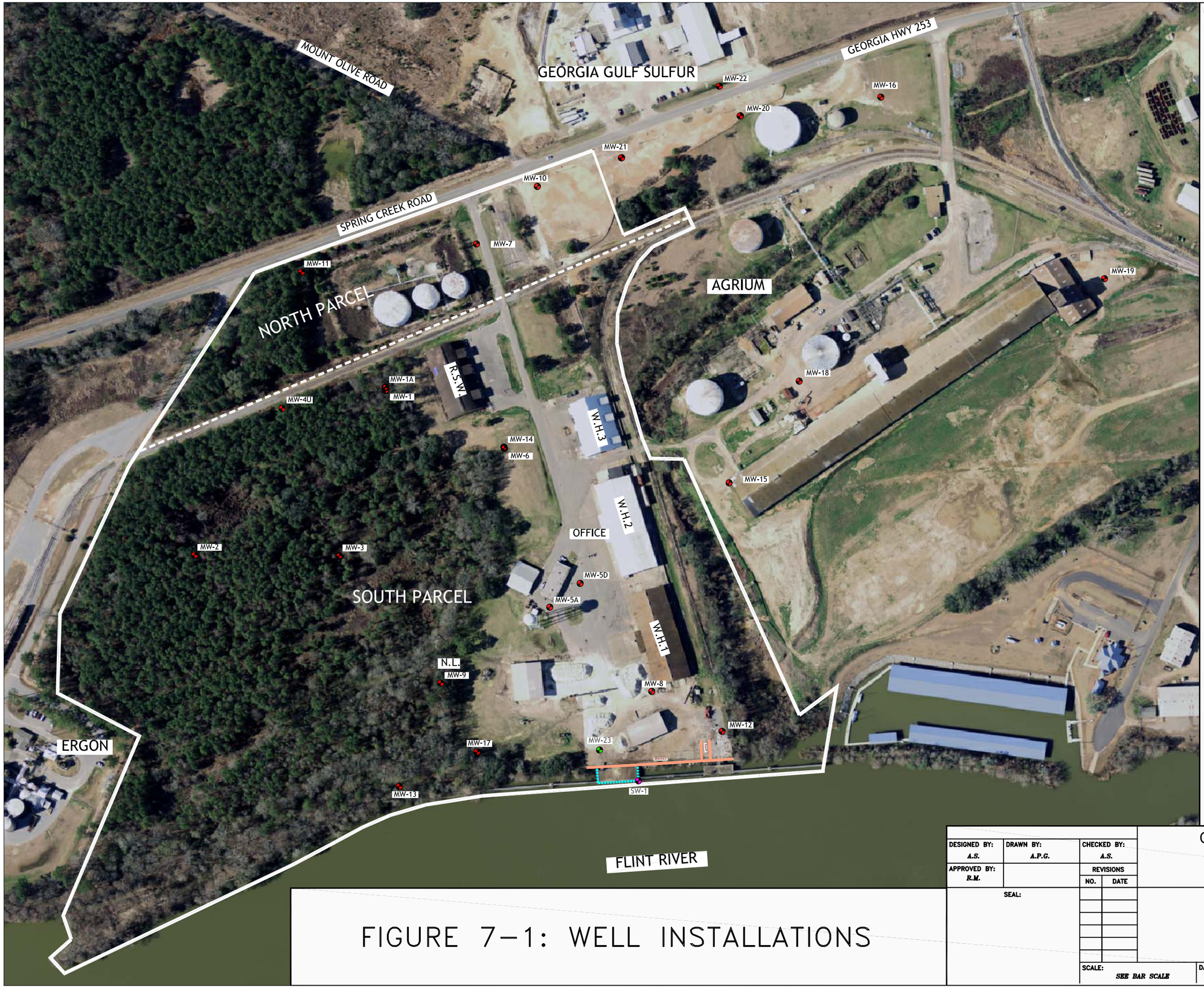

LEGEND:

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:

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 7–1: WELL INSTALLATIONS

DESIGNED BY: A.S.	DRAWN BY: A.P.G.	CHECKED BY: A.S.	
APPROVED BY: R.M.		REVISIONS NO.	DATE
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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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Introduction	1
Fence Line Inspections	2
Points of Interest	2
Maintenance	3
Maintenance Continued	4

Figure 1: Simple Fence Line Site Map

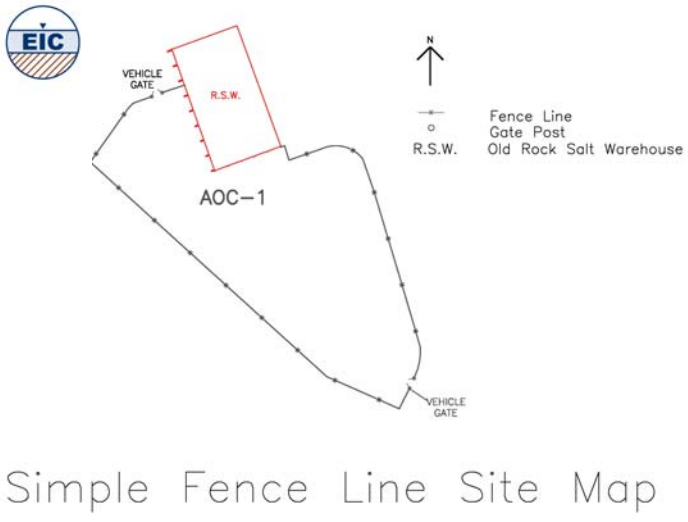


Figure 2: Fence Line Schematic Drawing

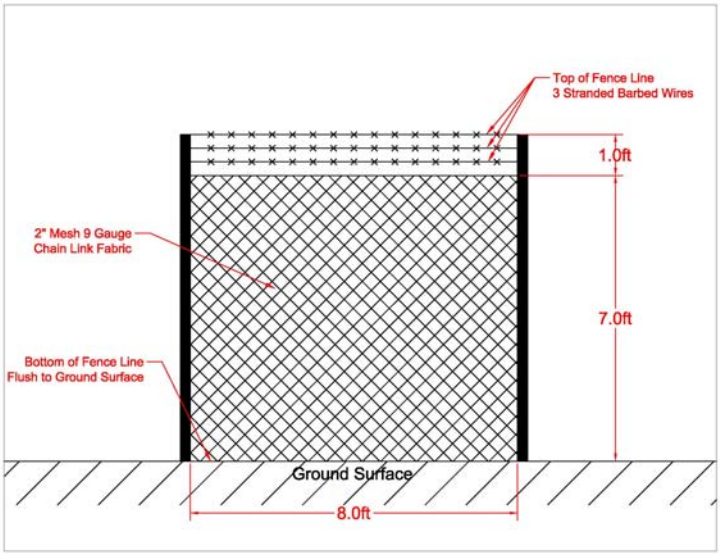




Photo 2: Fence Body Damage From Vandalism

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

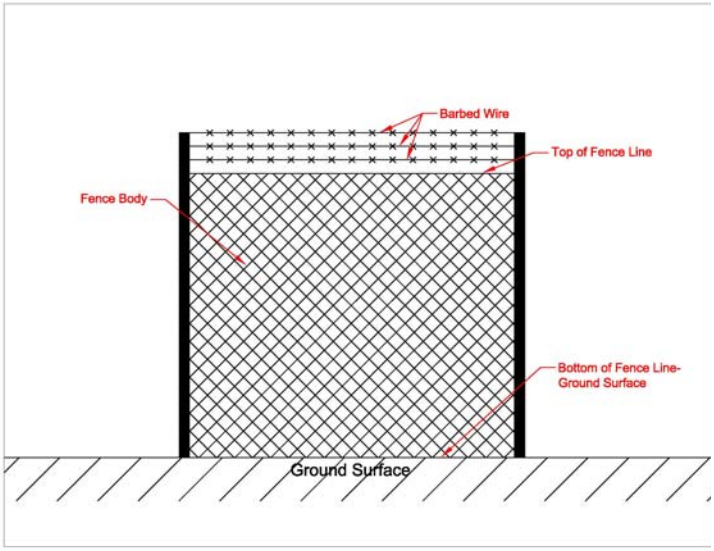
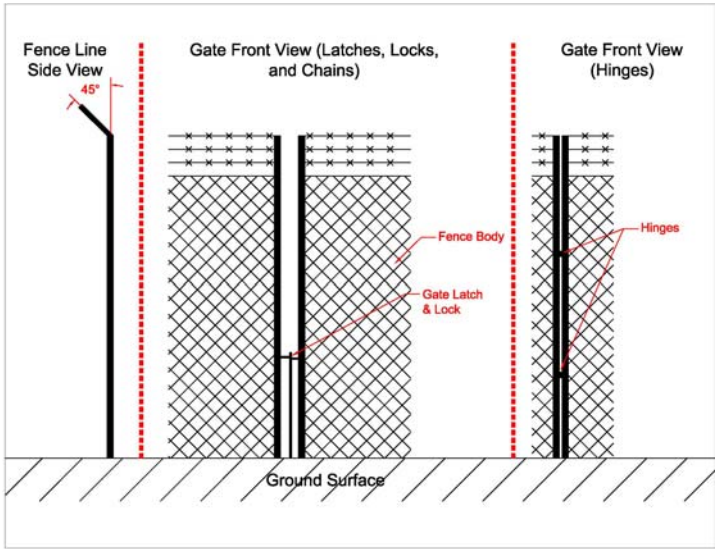


Figure 4: POI Gate Schematic and Fence Side View



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:

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Savannah, Georgia 31402

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

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

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

15-NOV-13

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

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

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 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** Matrix: Soil Date Received:11.08.13 17.07

Lab Sample Id: 473722-004 Date Collected: 11.05.13 11.46

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

Tech: RIM % Moisture: 22.76

Analyst: KKO Date Prep: 11.12.13 12.18 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	8.61	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	

Certificate of Analytical Results 473722

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	

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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	

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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	

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Sample Id:	**S4 E 0.0-0.5**	Matrix:	Soil	Date Received:	11.08.13 17.07
Lab Sample Id:	473722-008	Date Collected:	11.05.13 12.32		
Analytical Method:	Pesticides by SW-846 8081B			Prep Method:	SW3550
Tech:	RIM			% Moisture:	16.37
Analyst:	KKO	Date Prep:	11.12.13 12.36	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	7.96	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	

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GPA-Bainbridge

Sample Id: **S4 E 0.5-1.0**
Lab Sample Id: 473722-009

Matrix: Soil
Date Collected: 11.05.13 12.43

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 12.39

Prep Method: SW3550
% Moisture: 16.13
Basis: Dry Weight
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	

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Sample Id:	**S5 W 0.0-0.5**	Matrix:	Soil	Date Received:	11.08.13 17.07
Lab Sample Id:	473722-010	Date Collected:	11.05.13 12.56		
Analytical Method:	Pesticides by SW-846 8081B			Prep Method:	SW3550
Tech:	RIM			% Moisture:	13.89
Analyst:	KKO	Date Prep:	11.12.13 12.42	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	7.72	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	

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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	

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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

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	
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 0.0-1.00.5	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.

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 #: 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	TATASAP 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	S5W0.5-1.0	11/5/2013	13:03		S		X	1	4	C	C										X	X					
2	Auger Rinsate	11/5/2013	16:17		W		X	1	1	A	C										X	X					
3	Trip Blank				W			2	40	C	C										X	X					
4																											
5																											
6																											
7																											
8																											
9																											
10																											

	Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1	1) [signature]	11/8/13 17:07	2) [signature]	11-8-13 17:07
2	3)		4)	
3	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:

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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.

ENVIRONMENTAL INTERNATIONAL CORPORATION

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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:

ENVIRONMENTAL INTERNATIONAL CORPORATION

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:

ENVIRONMENTAL INTERNATIONAL CORPORATION

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:

ENVIRONMENTAL INTERNATIONAL CORPORATION

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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	5.7	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	222	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: 1 1/2 inches of water in vault, still below well TOC. Water is clear in cylinder. Sampled without <10 NTU because turbidity was rising.

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

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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

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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.
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 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
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

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	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:
1	MW-1	12/3/2013	9:31		W		X	1	O	P	C										V					
2	MW-1A	12/3/2013	10:29		W		X	1	O	P	C										V					
3	MW-4U	12/3/2013	11:31		W		X	1	O	P	C										V					
4	MW-7	12/3/2013	13:51		W		X	1	O	P	C										V					
5	MW-11	12/3/2013	7:59		W		X	1	O	P	C										V					
6	MW-18	12/3/2013	15:38		W		X	1	O	P	C										V					
7	MW-19	12/3/2013	14:52		W		X	1	O	P	C										V					
8	Equipment Blank	12/3/2013	16:26		W		X	1	O	P	C										V					
9																										
10																										

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 Fedex	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**) _____

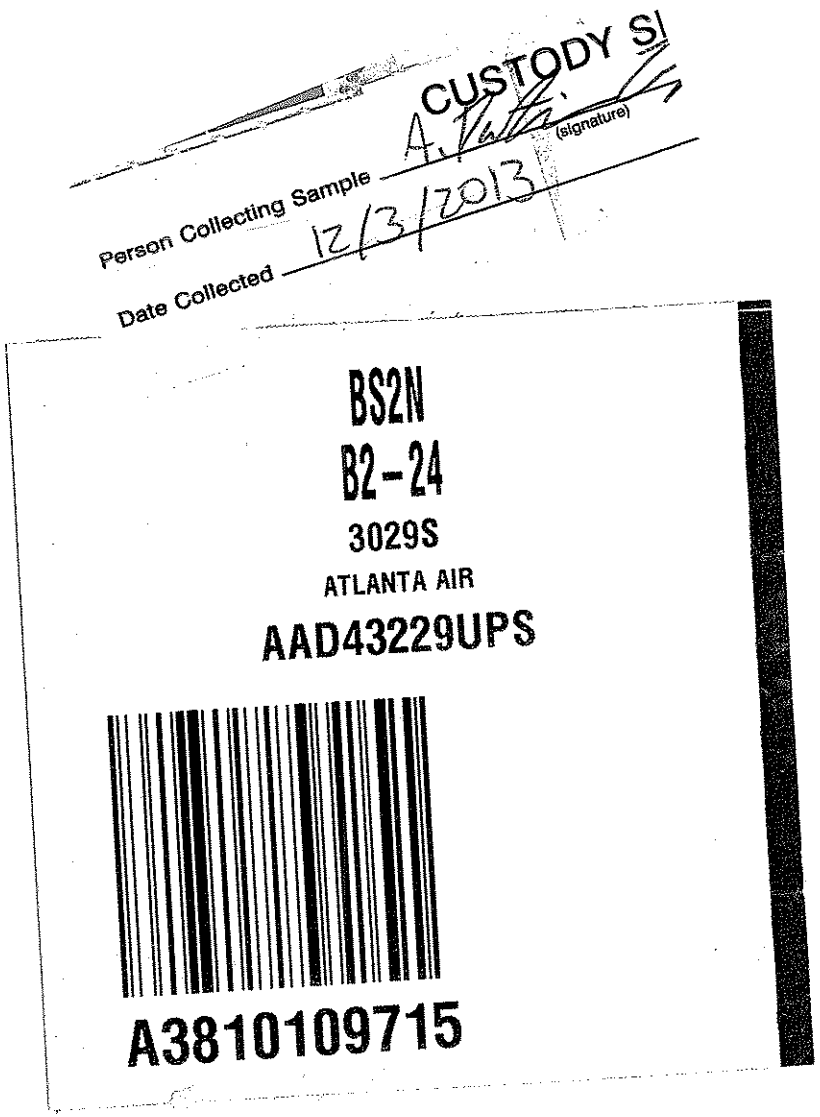
Cont. Size: 4oz (**4**), 8oz (**8**), 32oz (**32**), 40ml VOA (**40**), 1L (**1**), 500ml (**5**), Tedlar Bag (**B**), Various (V), Other 125 mL **Cont. Type:** Glass Amb (**A**), Glass Clear (**C**), Plastic (**P**), Various (**V**)

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
Person Collecting Sample
(signature)
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)

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 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)** 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	Remarks
1	MW-2	12/4/2013	7:37		W		X	1	O	P	C										✓					
2	MW-3	12/4/2013	8:49		W		X	1	O	P	C										✓					
3	MW-12	12/4/2013	11:30		W		X	1	O	P	C										✓					
4	MW-16	12/4/2013	13:28		W		X	1	O	P	C										✓					
5	MW-17	12/4/2013	10:41		W		X	1	O	P	C										✓					
6	MW-10	12/4/2013	16:20		W		X	1	O	P	C										✓					
7	MW-10 Duplicate	12/4/2013	16:30		W		X	1	O	P	C										✓					
8	MW-20	12/4/2013	14:17		W		X	1	O	P	C										✓					
9	MW-21	12/4/2013	15:22		W		X	1	O	P	C										✓					
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.

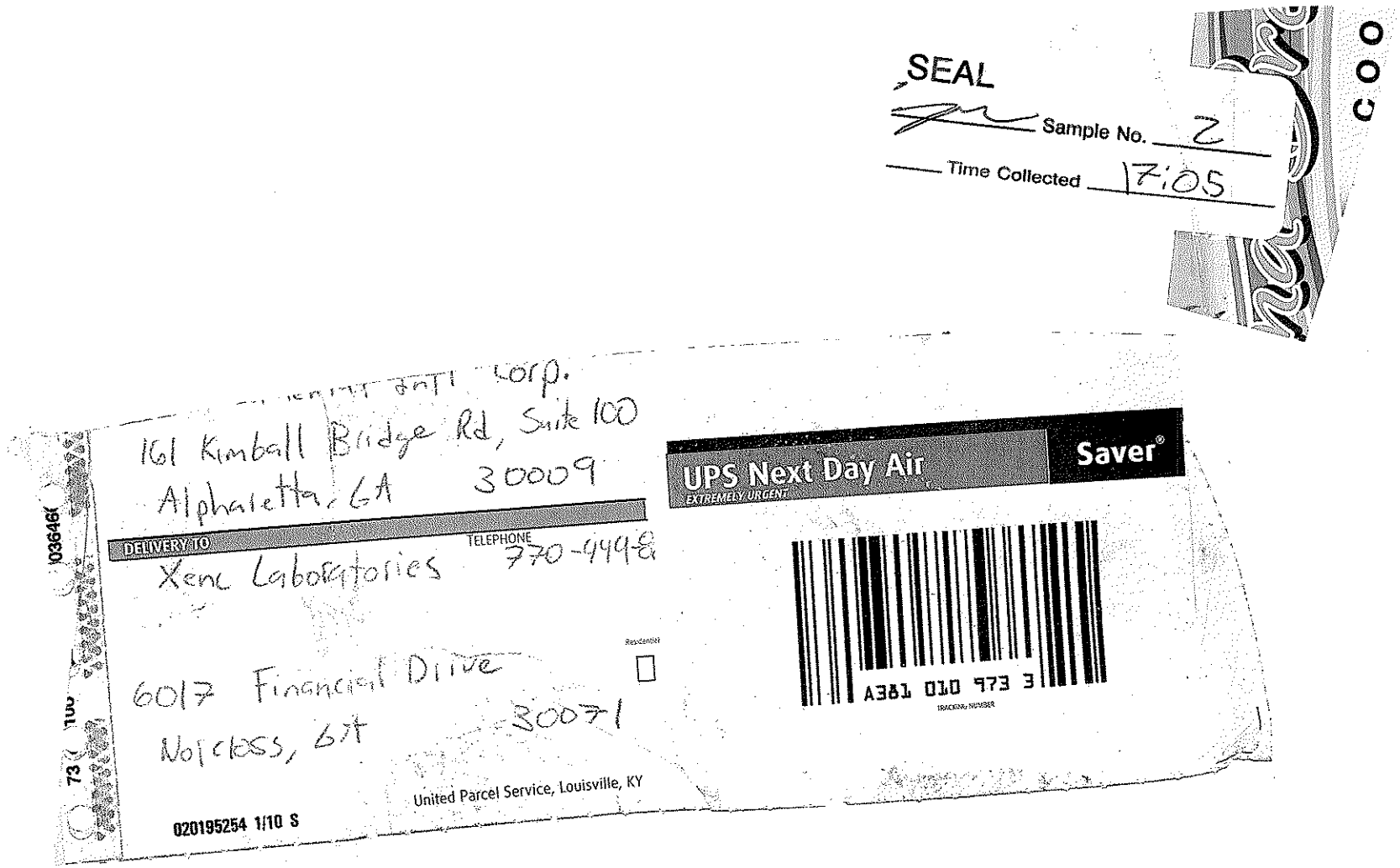
Preservatives: Various (**V**), HCl pH<2 (**H**), H2SO4 pH<2 (**S**), HNO3 pH<2 (**N**), Asbc Acid&NaOH (**A**), ZnAc&NaOH (**Z**), (Cool,<4C) (**C**), None (**NA**), See Label (**L**), Other (**O**) _____

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

Certificate of Analytical Results 475358

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: 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

Certificate of Analytical Results 475358

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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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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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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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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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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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

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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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

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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Environmental International Corporation, Alpharetta, GA

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: 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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Environmental International Corporation, Alpharetta, GA

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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GPA Bainbridge

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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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

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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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

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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GPA Bainbridge

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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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

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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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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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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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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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	

Certificate of Analytical Results 475358

Environmental International Corporation, Alpharetta, GA

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

Certificate of Analytical Results 475358

Environmental International Corporation, Alpharetta, GA

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	

Certificate of Analytical Results 475358

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: 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

Certificate of Analytical Results 475358

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	

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: 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

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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	

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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	

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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	

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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	

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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	

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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

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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

XENCO Laboratories

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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)	Sample Clean-ups are pre-approved as needed
1	MW-1	12/3/13	9:31		W		X	4	V	V	V										✓	✓	✓		✓				
2	MW-1A	12/3/13	10:29		W		X	4	V	V	V										✓	✓	✓		✓				
3	MW-2	12/4/13	7:37		W		X	4	V	V	V										✓	✓	✓		✓				
4	MW-3	12/4/13	8:49		W		X	4	V	V	V										✓	✓	✓		✓				
5	MW-4D	12/3/13	11:31		W		X	4	V	V	V										✓	✓	✓		✓				
6	MW-5A	12/5/13	9:16		W		X	5	V	V	V										✓	✓	✓	✓	✓				
7	MW-5D	12/5/13	8:22		W		X	5	V	V	V										✓	✓	✓	✓	✓				
8	MW-6	12/5/13	12:33		W		X	5	V	V	V										✓	✓	✓	✓	✓				
9	MW-7	12/3/13	13:51		W		X	4	V	V	V										✓	✓	✓		✓				
10	MW-8	12/5/13	10:13		W		X	5	V	V	V										✓	✓	✓	✓	✓				

Remarks

	Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1	1) A.P.G. H. Tate	12/6/2013 8:44	2) Ward Smith	12/6/13 8:44
2	3)		4)	
3	5)		6)	

Total Containers per COC: Cooler Temp: 2.1°C

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

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: Date Rcv by: From:

	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

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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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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 #: 266747

Company-City: EIC-Alpharetta | Phone: 770-772-7100

Lab Only: CWO# 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:

	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	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-20	12/4/13	14:17		W		X	4	V	V	V										✓	✓	✓	✓	✓						1
2	MW-21	12/4/13	16:22		W		X	4	V	V	V										✓	✓	✓	✓	✓						2
3	MW-22	12/5/13	13:35		W		X	4	V	V	V										✓	✓	✓	✓	✓						3
4	MW-6 Matrix Spike	12/5/13	12:33		W		X	1	32	A	C										✓										4
5	MW-10 Duplicate	12/4/13	16:30		W		X	4	V	V	V										✓	✓	✓	✓	✓						5
6	MW-22 Matrix Spike	12/5/13	13:35		W		X	1	32	A	C										✓										6
7	Equipment Blank	12/3/13	16:26		W		X	4	V	V	V										✓	✓	✓	✓	✓						7
8																															8
9																															9
10																														2.1 C	10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) A.P.G.A.	12/6/2013 8:44	2)	12/6/13 8:44
3)		4)	
5)		6)	

Total Containers per COC: Cooler Temp:

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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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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

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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

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		Seal:	EIC

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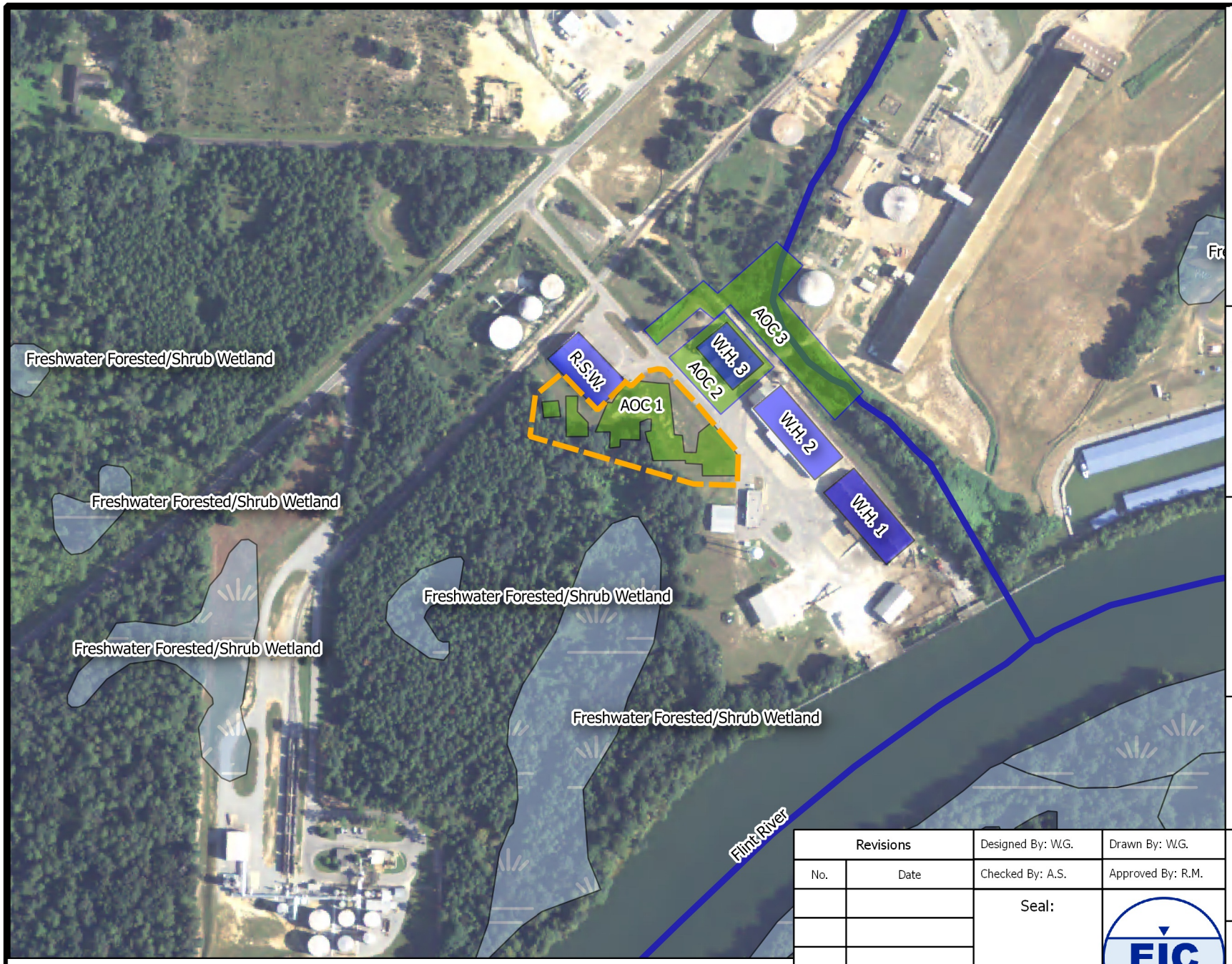

Legend

- 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

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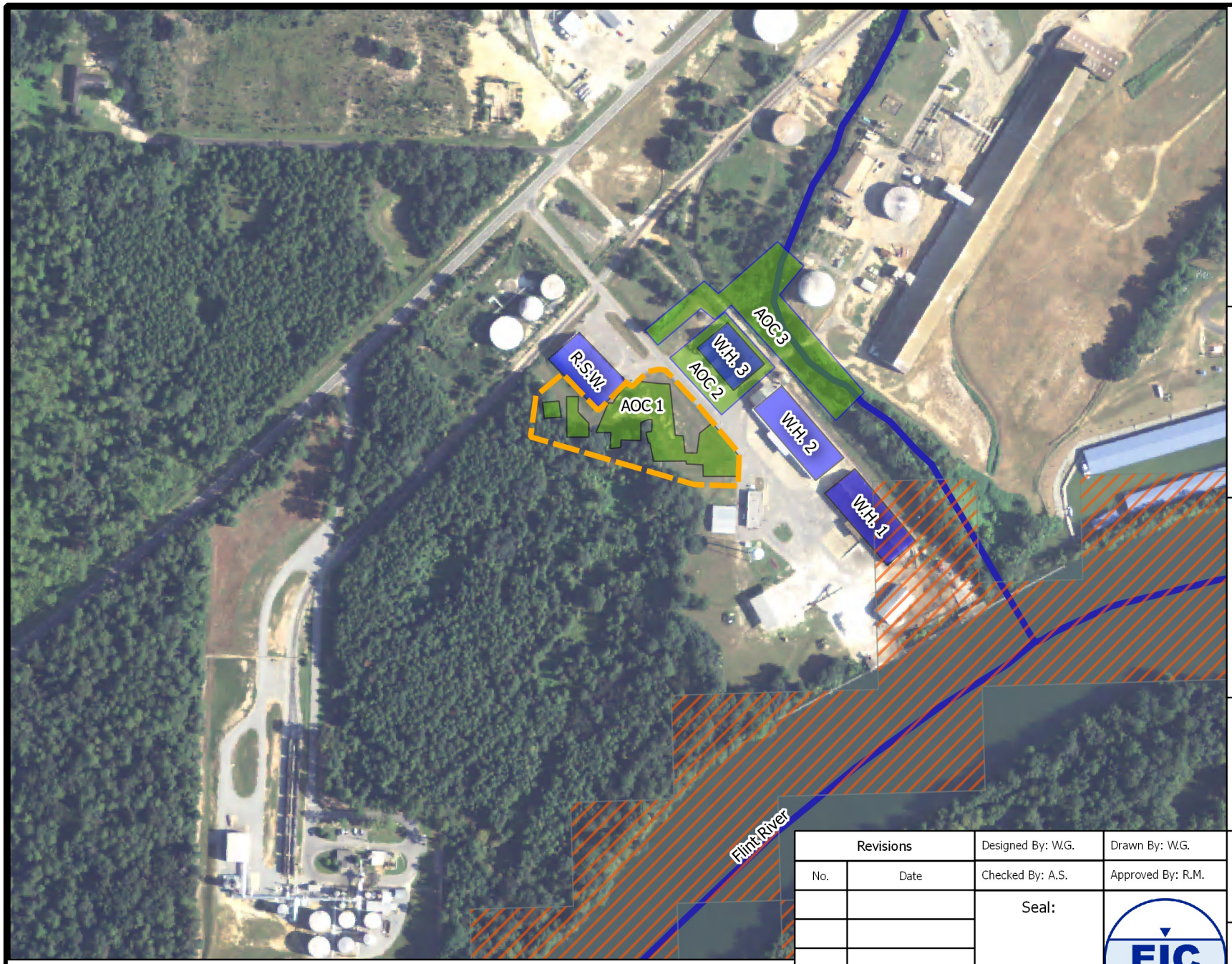

Legend

- 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

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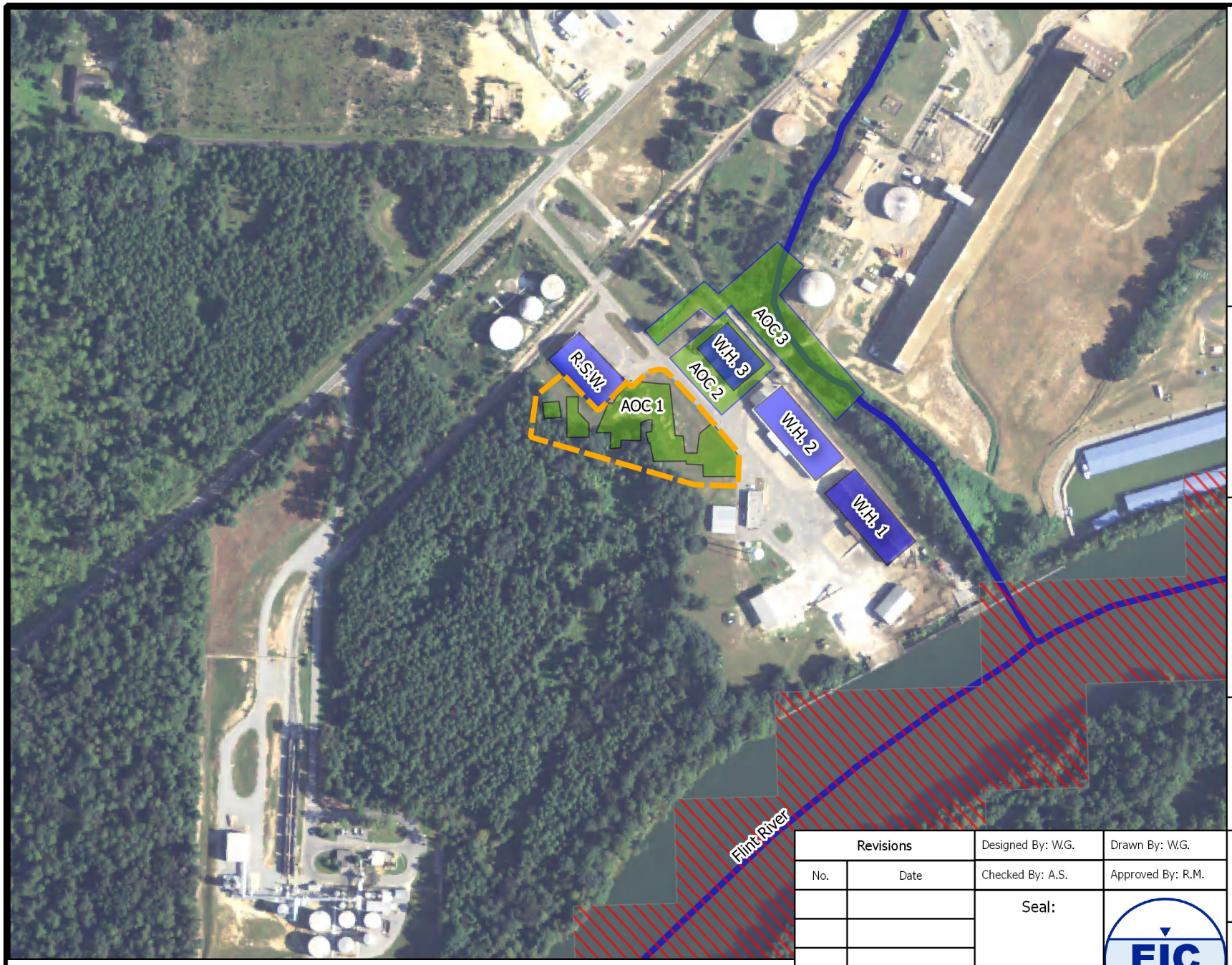

Legend

- 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

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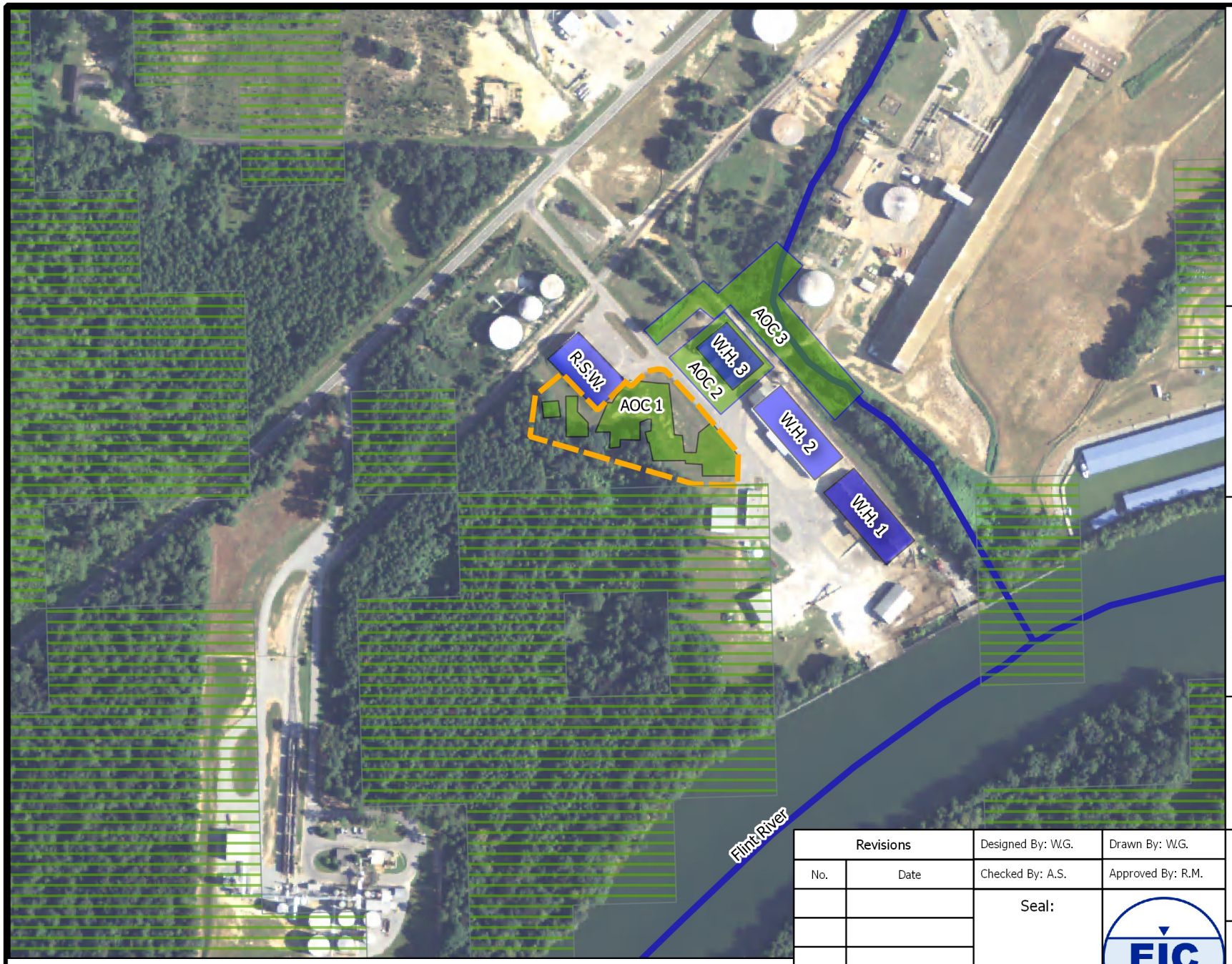

Legend

- 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

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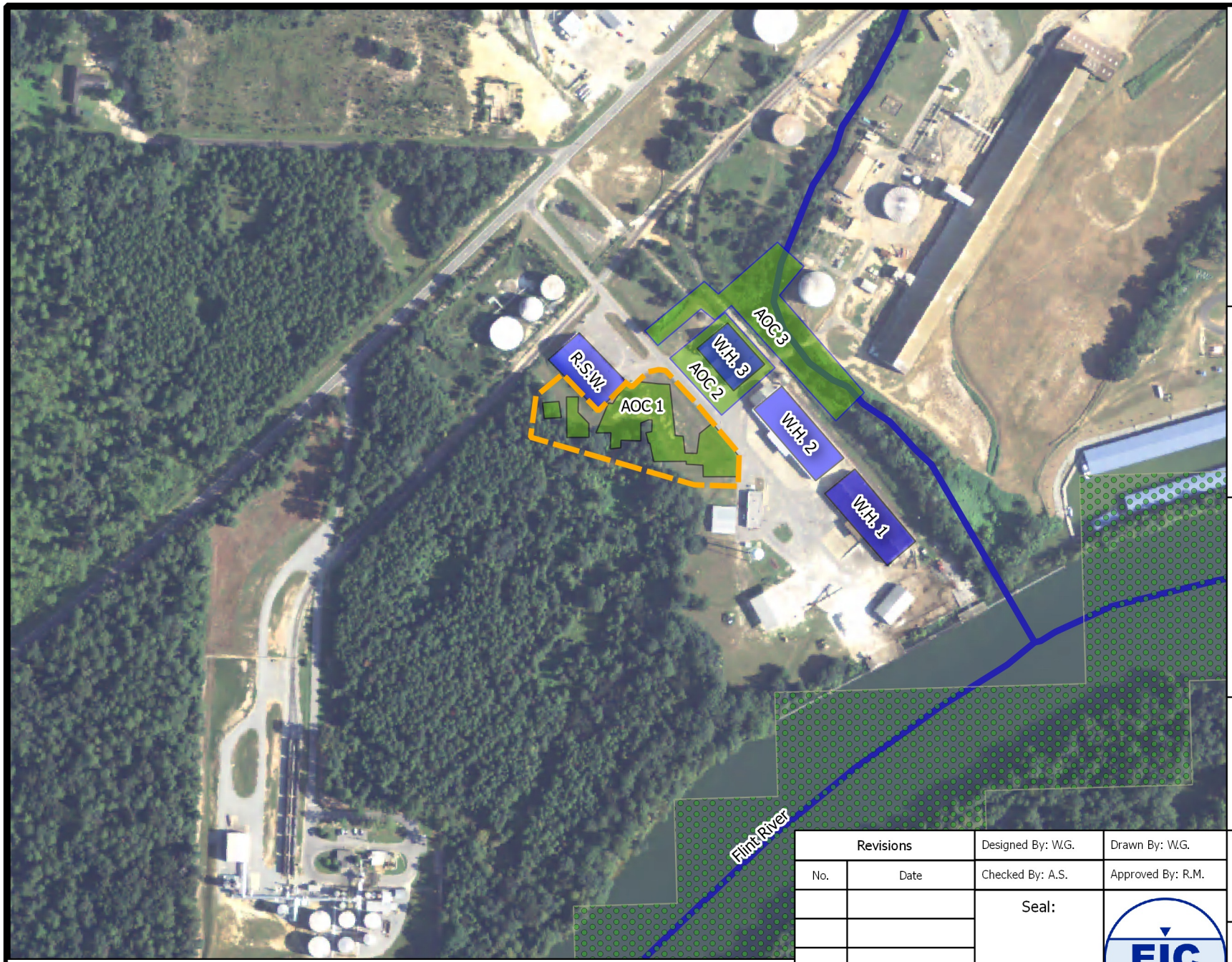

Legend

- 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

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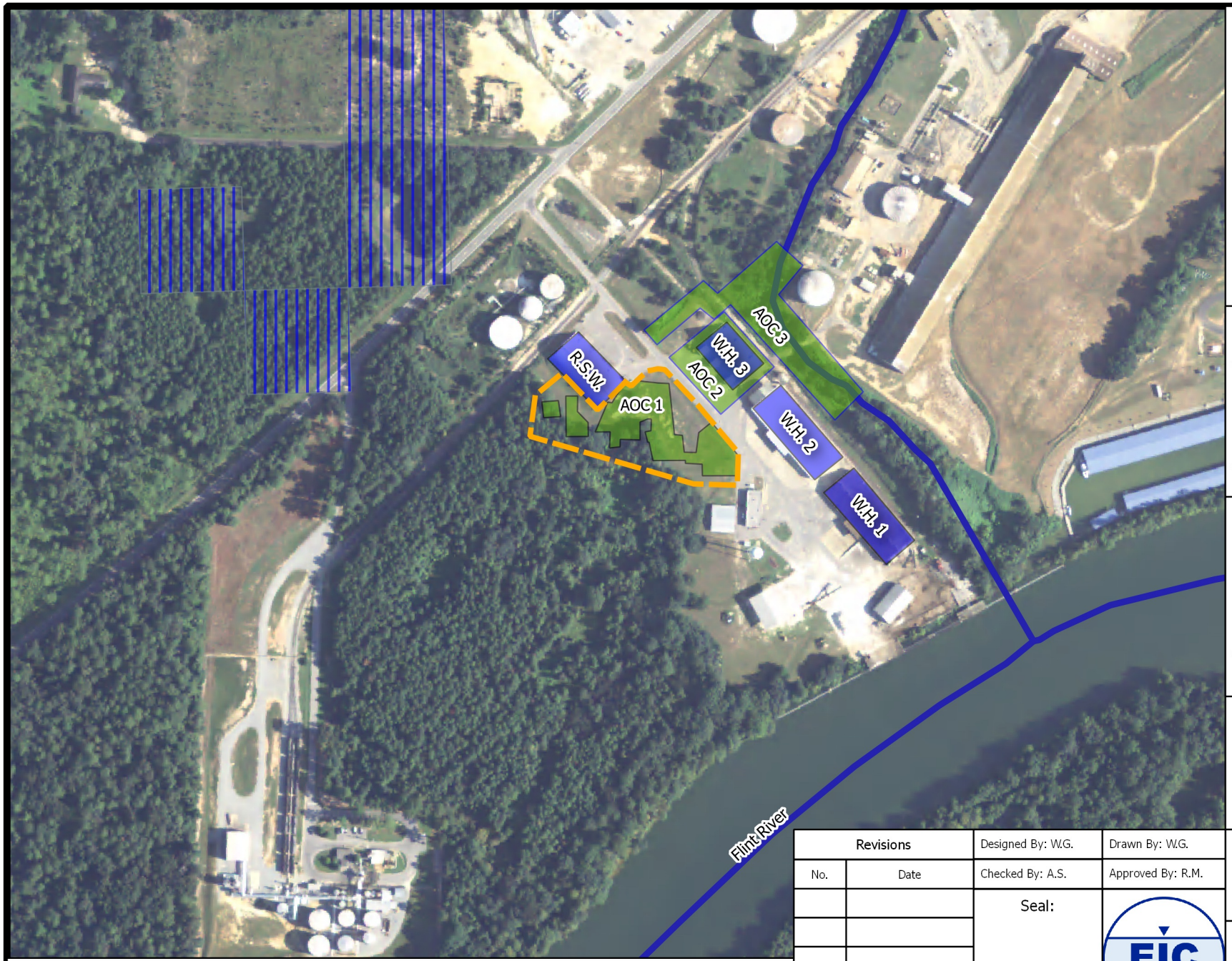

Legend

- 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



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Photo 3: AOC-3 West Side Bank of Drainage Ditch Near WH 2 – Facing East Showing AOC-3 Drainage Ditch



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HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

THIRD VIRP SEMI-ANNUAL PROGRESS REPORT

APPENDIX B (CD)
THIRD VIRP SEMI-ANNUAL PROGRESS REPORT

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

COMPLIANCE STATUS REPORT

EXHIBIT E
FOURTH VIRP SEMI-ANNUAL PROGRESS REPORT

(INCLUDED ON CD)

ENVIRONMENTAL INTERNATIONAL CORPORATION
161 Kimball Bridge Road, Suite 100, Alpharetta, GA 30009
Phone: 770-772-7100, Fax: 770-772-0555
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Website:www.eicusa.com

Our Contribution to the Environment®

October 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: **Fourth 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 Fourth 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 Fourth 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 Mr. Christopher Novack of GPA at 912-964-3922 or me at the above location.

Sincerely,

ENVIRONMENTAL INTERNATIONAL CORPORATION

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

Cc: Christopher Novack, GPA

CERTIFICATION AND SUPPORTING DOCUMENTS
Fourth VIRP Semi-annual Progress Report
Georgia Ports Authority-Bainbridge Terminal
HSI Site No. 10071
October 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

10/30/14
Date



Signature and Stamp

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

FOURTH VIRP SEMI-ANNUAL PROGRESS REPORT

October 30, 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

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Photograph 4: Stilling well installation with transducer
Photograph 5: Completed MW-23 concrete pad
Photograph 6: Slug test transducer probe setup
Photograph 7: PVC Slug
Photograph 8: IDW drums in the south area near the bulkhead wall
Photograph 9: IDW drums in the north area near the rock salt warehouse

LIST OF ATTACHMENTS

A. EIC March 2014 Well Purging and Sampling Field Logs

B. EIC September 2014 Well Purging and Sampling Field Logs

C. March 2014 Groundwater Analytical Results

D. September 2014 Groundwater Analytical Results

E. July 2014 Survey Report

F. July 2014 IDW Waste Characterization Analytical Results

G. Monthly Summary of Hours Invoiced

SECTION

1

1. INTRODUCTION

On behalf of Georgia Ports Authority (GPA), Environmental International Corporation (EIC) is pleased to submit the Fourth Semi-annual Progress Report to the Georgia Environmental Protection Division (EPD). This 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 objectives of this report is to present a compilation of tasks conducted by EIC during the eight-month time frame covering the period from March 2014 to October 2014. This report documents the following tasks which were completed to create a better understanding of site conditions and COC trends, address concerns from the EPD, and develop appropriate health and safety protocols at the site:

- Addressing comments from EPD
- Continued evaluation of COC trends in groundwater
- Monitoring well repairs and installation
- Aquifer characterization
- Long-term river level analysis
- Investigative derived waste (IDW) characterization
- Health and safety briefing for site employees
- Site conceptual model update

SECTION

2

2. EPD COMMENT LETTER

GPA received a letter from the EPD, dated July 2, 2014 (EPD, 2014), commenting on its review of the First, Second and Third VIRP Semi-Annual Progress Reports EIC prepared dated May 9, 2013, October 30, 2013, and April 30, 2014, (EIC, 2013a, 2013b, 2014b) and of a groundwater monitoring report by a previous consultant (CH2M, 2013) dated February 20, 2013. This letter was the last official response that GPA received from EPD. EIC addresses each of these comments in the following responses.

EPD Comment 1

EPD concurs the soils are delineated in area AOC 3 and that it is currently not an area of concern.

Response:

The EPD's concurrence of AOC 3 delineation is noted and will be referenced in future reports.

EPD Comment 2

EPD concurs that the soil contamination immediately north of AOC 2 is delineated. However, the extent of soil exceedances has not been determined to the south and should be addressed in future reports. EPD recommends that AOC 2 be expanded to the east to include the adjacent railroad tracks and to the south and west to abut the AOC 1 fence line.

Response:

In AOC-2, EIC will collect additional samples within the railroad tracks located to the east of Warehouse No. 3. As discussed in Section 4.2.3 of the VIRP, however, the site remedy for the paved area beneath AOC-2 entails institutional controls and site covenants. As such, additional samples in paved areas to the south and west do not add value.

EPD Comment 3

Georgia Ports Authority (GPA) stated in their Second VIRP Progress Report that EIC is awaiting backup documentation to address Comment #8 in EPD's comment letter dated November 2, 2012. However, this issue was not addressed in the Third VIRP Progress Report.

Response:

On August 2014, EIC received additional soil sampling data collected by the previous site contractor (GPA, 2014). Utilizing the additional data, EIC has compiled a comprehensive list of all available sampling data, as tabulated in Table 2-1. The table provides a summary of the confirmatory soil pesticide data relative to RRS constituents from the North Area excavation.

EPD Comment 4

EPD concurs that vertical delineation is satisfied by MW -14 in accordance with item 5.c. of the VIRP Checklist.

Response:

The EPD's concurrence of vertical delineation by MW-14 is noted. EIC will continue to monitor MW-14 in groundwater sampling events to determine if vertical delineation continues.

EPD Comment 5

Figure 4-5 and Table 4-3 indicate MW-13 was dry and was not sampled in the December 2013 sampling event. This well has historically exceeded risk reduction standards for beta-BHC whenever sampling was possible. Therefore, delineation west of MW-13 is not complete as noted in Comment 5 of our November 2, 2012 letter. Note that horizontal delineation on GPA property was to be completed by November 2, 2013 in accordance with the VIRP checklist. Please include historical data for MW -13 in future Groundwater Data Summary tables.

Response:

EIC has proposed the installation of one or two wells southwest of MW-13 for completing horizontal delineation. As documented in Section 4.2.2.2 of this report, EIC has taken corrective action to prevent dry conditions in MW-13. This will provide more consistent groundwater monitoring data in the future. Table 3-4 includes additional historical groundwater analytical results data for MW-13 ranging from March 2013 to April 2002.

EPD Comment 6

GPA has presented evidence that a source of groundwater contamination exists upgradient of the GPA property and proposes to provide more detail in an updated conceptual site model in the next semi-annual report. While EPD does concur with this analysis, we do not concur with the implications in the reports that all pesticide and

sulfate groundwater detections are from upgradient sources. We suspect multiple sources both on and off the GPA property.

Response:

The EPD's concurrence with upgradient contamination analysis is noted and will be referenced in future reports. An updated conceptual site model is in progress and will be included in future semi-annual reports. EIC will continue to investigate and evaluate contaminant sources and conditions/mechanisms that contribute to the observed contaminant levels.

SECTION

3

3. GROUNDWATER MONITORING

EIC conducted groundwater monitoring events during the first and third quarters of 2014 in March and September, respectively. During these events, groundwater samples were collected from site monitoring wells and analyzed for pesticide constituents of concern (COCs). Pesticide contamination analyses included the primary benzenehexachloride (BHC) COCs, composed of isomers, α-BHC, β-BHC, δ-BHC, and γ-BHC (Lindane). Under the approved VIRP (EIC, 2012), all available monitoring wells are being utilized for the monitored natural attenuation (MNA) remedial approach. The following subsections describe the monitoring program events and results.

3.1 GROUNDWATER MONITORING FIELD PROGRAM

During the March 2014 event, EIC conducted groundwater monitoring at all 23 available monitoring wells. Included in the 23 wells utilized are two monitoring wells (MW-14 and MW-17) that are defined by EIC as "deep wells", as they are screened at or greater than 50 feet below ground surface (bgs). During the September 2014 event, EIC conducted groundwater monitoring at the same 23 monitoring wells and an additional well, MW-23, installed by EIC. Details of the MW-23 installation are included in Section 4.1 of this report. A site layout map including monitoring well locations is illustrated in Figure 3-1. In preparing this map, EIC plotted the monitoring well locations based on both historical well surveys and well surveys EIC conducted in June 2013 and July 2014.

3.1.1 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).

3.1.2 Site Access

Prior to EIC's site visits, EIC coordinated with the GPA regarding on-site field activities and contacted Agrium U.S., Inc. (Agrium) for permission to access and conduct off-site well monitoring on the adjacent property to the northeast 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. Upon arrival at the site, EIC acquired access permission from Ergon, whose property to the east of the site must be utilized to access wells MW-2 and MW-11.

3.1.3 Field Procedures

3.1.3.1 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 from the March and September 2014 monitoring events is tabulated in Table 3-1 and Table 3-2 respectively.

3.1.3.2 Groundwater Sampling

Prior to initiating field well monitoring activities in March, EIC placed a 55-gallon drum in the vicinity of the southeast corner of the Rock Salt Warehouse (R.S.W.) on-site to containerize investigative derived waste (IDW) purged groundwater. 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 "03/27/2014". A second drum, labeled similarly, with an accumulation date noted as "09/05/2014" was placed near the warehouse located north of the bulkhead and pier along the Flint River during the September monitoring event. EIC utilized a peristaltic pump for purging and sampling groundwater. Disposable 1/4-inch inner diameter (ID) Teflon-lined tubing and silicon tubing at the pump head 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-measured height of the well TOC above the ground surface, the established field-measured depth to bottom, and the documented well total depth and screened interval on well construction logs. Following the SOP SESDPROC-301-R3 (EPA, 2013), EIC set the tubing intake approximately at the center of the wetted screen interval. The pump speed was set based on well recharge and time for groundwater quality standards to reach stabilization from previous sampling events to limit drawdown and purge time at each well. In the event that the recharge rate was anomalous compared to previous sampling events, the pump speed was adjusted accordingly and noted on the field purging data forms. These forms are included as Attachment A and Attachment B for March and September, respectively.

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 at or below 10 nephelometric turbidity units (NTUs). These measurements were recorded on EIC's Well Purging and Sampling Data field logs (Attachments A, B). Groundwater quality field parameters after stabilization and prior to sample collection are summarized in Table 3-3. Note that three wells sampled during the March 2014 event (MW-6, MW-19, and MW-21) and five wells sampled during the September 2014 event (MW-1A, MW-3, MW-6, MW-17, and MW-19) 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 sample bottles with water discharged directly from the pump. All sample bottles were properly sealed and labeled in the field. Each sample was then stored with double-bagged 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). The laboratory reports for the March and September sampling event are included as Attachment C and Attachment D, respectively.

Each time after sampling activities were completed, the 55-gallon drum containing IDW purge water was sealed by EIC. EIC relinquished all samples to the laboratory immediately after EIC personnel returned from the site, for the aforementioned analysis. The results of these analyses are summarized in Table 3-4.

3.2 QUALITY ASSURANCE AND QUALITY CONTROL

During each of the groundwater sampling events in March and September 2014, EIC collected additional samples for quality assurance (QA) and for the validation of analytical results. For organochlorine pesticides laboratory matrix spike analysis, one additional sample from wells MW-8 and MW-22 in March, and from wells MW-18 and MW-22 in September was collected. A duplicate sample was collected from well MW-19 in March and from well MW-10 in September, and an equipment rinsate (blank) sample was collected during each event. The equipment blank samples were collected by pumping de-ionized water through a 10-foot length of Teflon-lined tubing and approximately 6-inches of silicone tubing.

To prevent cross-contamination, new disposable Teflon-lined tubing and disposable silicone tubing were used to collect all samples, with one exception, described below. EIC's oil/water interface probe and tubing cutter tool were field decontaminated prior to use and between sample locations by washing with pressurized 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, pressurized phosphate-free detergent.

During the September 2014 sampling event, a Teflon-lined tubing inventory discrepancy led to a deficit or available tubing on site. In order to complete representative sampling during this event, tubing used to sample well MW-6 was decontaminated and reused to sample well MW-22. This tubing was decontaminated via exterior rinsing and interior pumping with de-ionized (DI) water. After the tubing was decontaminated, a rinsate sample was collected by pumping DI water through the tubing. This sample was included in the QA sampling program to determine if any residual contamination was present in the tubing.

Each sample collected at the site was stored with ice in coolers and delivered to the laboratory along with the groundwater samples. These samples were analyzed via EPA method 8081B/3660B. All sample bottles were properly sealed and labeled in the field.

3.2.1 QA Evaluation

The rinsate sample for the tubing from MW-6 indicated beta-BHC above the method detection limit (MDL) with a concentration of 0.102 µg/L. This represents the maximum amount of residual contamination that existed in the tubing when it was used to sample well MW-22. Accordingly, a correction factor of this amount has been applied to the beta-BHC result from MW-22 lowering it from 37.2 µg/L to 37.1 µg/L. Note that the residual contamination in the tubing represents only 0.28% of the beta-BHC concentration at MW-22 and that, as tabulated in Table 3-4, the September 2014 beta-BHC concentration at MW-22 is not atypical for the well when compared to previous sampling events. EIC has taken steps to maintain adequate tubing supply during future sampling events and will further evaluate the validity of the September MW-22 results following these events.

The analytical results of all of the parameters in the equipment blanks for both sampling events were below the MDL. In the March duplicate MW-19 sample, however, beta- and gamma-BHC constituents were both above the MDL, as opposed to the primary MW-19 sample in which only beta-BHC was above detection limit. The duplicate sample results were higher in beta BHC and gamma-BHC with a difference between the constituent concentrations of the two samples of 0.0097 µg/L for beta-BHC and 0.0109 µg/L to below detection limit for gamma-BHC.

In the September duplicate MW-10 sample, alpha, beta-, delta-, and gamma-BHC constituents were all above the MDL, in concurrence with the primary MW-10 sample. The duplicate sample results were slightly higher in all constituents with a difference in concentrations of the two samples of 0.03 µg/L for alpha-BHC, 0.58 µg/L for beta-BHC, 0.047 µg/L for delta-BHC and 0.011 µg/L for gamma-BHC.

3.3 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 March and September 2014 monitoring events. Data from the sampling events was compared to the data from the baseline event in March 2013 and with each of the three subsequent quarterly sampling events to determine if monitored natural attenuation is in progress at the site and if it is likely to lead to remedial end points.

3.3.1 Groundwater Potentiometric Map

Utilizing gauging data summarized in Table 3-1 and Table 3-2 from the March and September 2014 groundwater monitoring events, respectively, EIC prepared groundwater potentiometric surface maps, illustrated in Figure 3-2 and Figure 3-3. For comparative purposes, the contour interval utilized for the groundwater potentiometric surface analyses was identical to those prepared from previous sampling events documented in previous semi-annual reports. From Figures 3-2 and 3-3, in general, it is apparent that groundwater continues to flow to the southeast towards the Flint River.

In March 2014, the mean potentiometric surface elevation for the site was higher, by approximately 1.5 feet, as compared to the elevation observed in December 2013 (EIC, 2014, Figure 4-2). In September 2014, however, the mean potentiometric surface elevation dropped by approximately 2 feet compared to the elevations observed in March 2014. This indicates seasonal fluctuations in groundwater elevation.

EIC also observed that many of the potentiometric surface features discussed in previous quarterly reports have persisted at the site during the March and September 2014 events. A trough feature that extends from the area of well MW-4U towards the area of MW-6 has persisted through each monitoring event since March 2013. A second trough feature extending from the area of well MW-22 across the site towards well MW-12 is evident in September and March 2014. A relatively large area of the potentiometric surface with a relatively low gradient, has persisted at the site in the vicinity of the main office and Warehouses 1 and 2. This feature is more prominent when the potentiometric surface is relatively low, such as in December 2013 and September 2014. This area extends from north to south along the main driveway of the site. An apparent ridge feature (anomalously high water level) trending from northwest to southeast in the area of MW-8 and MW-23 has become more prominent since March 2013 and was most notable in September 2014. The southern edge of this ridge slopes downward towards wells MW-12 and MW-13 and may indicate potential impacts on the groundwater surface and flow from the bulkhead along the Flint River.

3.3.2 Horizontal Extent of COC Plumes

Table 3-4 summarizes the analytical results of organochlorine pesticides from both the recent and historical groundwater sampling events. 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. Analytical values that exceeded the Type 4 risk reduction standards (RRS) are denoted in red and bold text.

Figure 3-4 through Figure 3-9 illustrate the horizontal extent of the BHC plumes comprised of alpha-BHC, beta-BHC, and delta-BHC during March and September 2014. For a consistent trend analysis, EIC utilized the same isoconcentration contour intervals as those illustrated in the VIRP submittal and in subsequent plume renderings. Additionally, the contours that illustrate delineation criterion and the RRS limits define the horizontal extent of pesticides and the extent of contaminant plumes that requires remediation.

3.3.2.1 Alpha-BHC Plume

Referring to Figures 3-4 and 3-5 that illustrate the alpha-BHC plume in March and September 2014, respectively, it is apparent that both the concentrations and horizontal extent of the alpha-BHC contaminant plume fluctuate compared to baseline conditions that were established in March 2013. The highest concentrations were observed in MW-6 (0.797 µg/L) in March and in MW-22 (1.01 µg/L) during the September sampling event. The concentrations in these wells have consistently remained high relative to the plume. During both sampling events the outer limits of the plume have continued to be defined by relatively low concentrations in the areas of MW-10, MW-22, MW-6, and MW-5A. In March 2014, the leading edge of the plume receded to the north from the area of MW-8. In September 2014, however, the leading edge advanced southwards returning to previously defined areas.

Referring to Figures 3-4 and 3-5, it is apparent that the horizontal delineation of the alpha-BHC plume above RRS is complete, except to the north beyond Spring Creek Road. In particular the inclusion of MW-23 near the Flint River clarifies southeast delineation downgradient towards the Flint River.

3.3.2.2 Beta-BHC Plume

Referring to Figures 3-6 and 3-7 that illustrate the beta-BHC plume in March and September 2014, respectively, it is apparent that both the concentrations and horizontal extent of the beta-BHC contaminant plume fluctuate compared to baseline conditions that were established in March 2013. Between December 2013 and March 2014, a major decrease in beta-BHC concentrations occurred across the site, dividing the original plume into two plumes, as shown in Figure 3-6. In September of 2014, however, the plume coalesced into one plume and returned to those conditions observed in December 2013, as shown in Figure 3-7.

A much smaller secondary plume above RRS exists in the area of MW-13 with a concentration of 4.00 µg/L in March and 3.87 µg/L in September. This plume was isolated in March by below MDL concentrations observed at wells MW-3, MW-5A, and MW-5D and has historically lacked consistent data in part due to lack of measurable groundwater at well MW-13. EIC determined that well MW-13 had silted up and took corrective action to restore the original depth of this well by removing the silt and redeveloping the well, as discussed in Section 4.2.2.2 of this report. This remedy enabled EIC to collect a groundwater sample from MW-13 in September 2014 and is expected to enable sampling at this well during future sampling events. The addition of a new well designated as MW-23 has provided resolution in the area near the Flint River, beginning with the September 2014 sampling event, and will allow further delineation of the plume during subsequent sampling events.

It is notable that the highest concentration of beta-BHC continues to be found at well MW-22, located immediately down-gradient of the Georgia Gulf Sulfur (GGS) property north of Spring Creek Road and hydraulically up-gradient of GPA.

Referring to Figures 3-6 and 3-7, it appears that the horizontal delineation of the beta-BHC plume above RRS is complete to the northeast and to the southwest, while incomplete to the northwest beyond Spring Creek Road and to the southwest near MW-13. To further define the horizontal extent of the plume in the vicinity of MW-13, EIC has proposed the construction of one or two additional monitoring wells, as noted in Section 2.

3.3.2.3 Delta-BHC Plume

Referring to Figures 3-8 and 3-9 that illustrate the Delta-BHC plume in March and September 2014, respectively, it is apparent that both the concentrations and horizontal extent of the delta-BHC contaminant plume have remained relatively stable across the site with the exception of the area of MW-22. The highest concentration of the delta-BHC plume occurred at well MW-6 (1.98 µg/L) in March 2014, and at MW-22 (22.4 µg/L) in September 2014.

It is noteworthy that the delta-BHC concentration at MW-21, that has remained below MDL since the beginning of VIRP sampling program, effective March 2013, increased to a concentration of 0.574 µg/L in September 2014 - the first time the concentration was above MDL since the initiation of the VIRP. This finding, in conjunction with a significantly higher concentration observed in the area of MW-22, suggests migration of BHC from an off-site source in the area northwest of Spring Creek Road.

Referring to Figures 3-8 and 3-9, it is apparent that the horizontal delineation of the delta-BHC plume above RRS is complete, except to the north beyond Spring Creek Road.

3.3.2.4 Inorganic Parameters

EIC has routinely collected samples for nitrate, sulfate and other inorganic. Those sampling events have provided sufficient data to define the extent of these inorganic parameters. EIC will continue to review the potential impact of the nitrate, sulfate and other inorganic parameters from data obtained during previous groundwater monitoring events. Since a sufficient number of samples have been collected for the definition of the aforementioned inorganic parameters, EIC has discontinued monitoring of inorganic parameters since the December 2013 sampling event.

3.3.3 Vertical Extent of COC Plumes

There are two designated deep wells at the site designated as MW-14 and MW-17. 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 3-4, following historical trends, the concentrations of alpha-BHC, beta-BHC, and delta-BHC at wells MW-14 and MW-17, have remained below RRS through the March and September 2014 sampling events. As noted in Section 2.0, EPD concurs with EIC that the vertical limits of the BHC plume has been defined.

3.3.4 BHC Plume Stability

Based on the findings in Sections 3.3.1 through 3.3.3, it is apparent that the BHC plume has remained relatively stable. EIC will continue to evaluate data from subsequent groundwater monitoring events to determine the impact groundwater fluctuations have on plume characteristics and stability.

SECTION

4

4. WELL INSTALLATIONS AND REPAIRS

To further delineate the BHC plume towards the southeastern site boundary adjacent to the Flint River, EIC installed monitoring well MW-23 in April 2014. During the installation, EIC logged soil boring cores and recorded well construction details, as is illustrated in Figure 4-1. In addition to the new well installation, EIC conducted repairs to monitoring wells throughout the site in April and June 2014. A complete list of well repairs conducted during these events is included in Table 4-1. As noted in the third semi-annual report (EIC, 2014b), EIC also installed a stilling well (SW-1) in March 2014. Following the installations of wells MW-23 and SW-1 and the comprehensive well repairs, in July 2014 EIC commissioned a surveyor licensed in Georgia to accurately measure and record the location and elevation of the top-of-casing (TOC) of MW-23, and the new TOC elevations of the repaired wells, as necessary. The following sub-sections describe these site activities in further detail.

4.1 MW-23 INSTALLATION

EIC installed MW-23 approximately equidistant between existing monitoring wells MW-12 and MW-17 and with a screened interval similar to that of well MW-12. This well was, however, located closer to the Flint River than either wells MW-12 or MW-17. The well was installed by a Georgia licensed drilling contractor, under EIC's supervision. Utilizing a Geo-probe, equipped with an 8.25-inch outer diameter hollow-stem auger bit and augers (illustrated in Photograph 1), EIC completed the borehole for MW-23 to a total depth of 24 feet. During the drilling process, EIC characterized and logged all soil encountered that was collected in 5-foot soil cores, as illustrated in Photograph 2. A lithological/well construction log of MW-23 is illustrated in Figure 4-1. During the soil logging process, EIC also acquired soil samples for sieve analysis and measured volatile organic compound levels at discrete depths, as illustrated in Figure 4-1.

Following the completion of the borehole for MW-23, 10/30 filter pack sand was placed in the borehole to a level approximately 23 feet below ground surface (a one-foot thickness). A 10 foot section of 0.010-slotted PVC screen assembled to a 15-foot section of blank 2-inch diameter well casing were then placed in the borehole onto the sand and centered. The well casing was then cut level to ground surface and a locking pressure seal well cap installed on the casing. The annular space around the PVC screen and casing was then filled with 10/30 filter pack sand up to approximately two feet above the screened interval. An approximately two-foot thick bentonite seal was then installed above the filter pack. A 30% solids bentonite cement mixture (grout) was then placed into the annulus space from the bentonite seal to within approximately 18 inches

below ground surface. Finally, pea gravel was installed above the grout to within approximately 6-inches below the ground surface to prevent surface water accumulation in the well vault be installed. The bentonite and grout of the well was then allowed to settle and set overnight prior to development.

On the following day, the driller installed an 8-inch diameter cast-iron well vault with bolted lid and a 2-foot by 2-foot by 6-inch thick concrete collar over the well casing and cap. Photograph 3 illustrates the completed installation of MW-23. Following the completion of the construction of MW-23, EIC placed a weather-resistant key lock on the well cap.

The driller also developed MW-23 for approximately two hours by pumping groundwater utilizing a Pegasus submersible pump. Although the pump removed two 55-gallon drums of purged groundwater, the well water remained relatively turbid. Pumping was stopped due to time constraints.

In June 2014, EIC returned to MW-23 and continued development with a pump more suitable for well development. EIC utilized a reciprocating Watera II pump, with 1/2–inch ID polyethylene tubing, a foot valve, and a 1.8-inch outer diameter surge block, as is illustrated in Photograph 4. Utilizing this pump, EIC was able to fully develop the well by pumping until fines were not apparent in the purge water. This process resulted in filling two additional 55-gallon drums with purged water.

4.2 WELL REPAIRS

To maintain monitoring wells in good condition at the site, EIC conducted repairs on selected wells during two site visits in April and June 2014, respectively. A comprehensive list of well repairs conducted at the Site is tabulated in Table 4-1. Major repairs included the installation of new well vaults/concrete collars, repairs to damaged well casings, and the removal of accumulated fines. Most repairs were minor and included replacing well vaults and outer metal casing parts. From Table 4-1, repairs that either changed the TOC elevation and/or the measured depth to bottom included wells MW-10, MW-13, MW-15, and MW-17.

4.2.1 Well Vault/Concrete Collar Replacement

Due to various types of damage to the vaults and concrete collars surrounding certain flush-to-grade well completions, rainwater was accumulating in these well vaults. To correct this issue, EIC excavated and removed the damaged pads and vaults where necessary and replaced them with new vaults/collars as illustrated in Figure 4-2, a general well vault/concrete collar schematic. To prevent the accumulation of any surface water that still may enter the new well vaults, EIC installed pea gravel below each vault that would allow water to drain. Vaults/collars were replaced at six monitoring wells, MW-5D, MW-8, MW-10, MW-12, MW-15, and MW-20.

4.2.2 Significant Well Repairs

The repairs of wells requiring the most significant repairs are detailed below.

4.2.2.1 MW-10

MW-10 is located on the northwest side of the GPA property, adjacent to Spring Creek Road, as is illustrated in Figure 3-1. The well vault/concrete collar of MW-10 had been shifted horizontally and the well casing broken off apparently by excavation equipment during soil removal activities conducted by a previous consultant. The casing was otherwise undamaged. The result was that the well vault could not be closed to protect the well casing and that the locking well cap did not completely seal the well.

EIC retained the same drilling company that installed MW-23 to remove the damaged well vault/collar and saw off the damaged portion of the well casing, lowering the TOC. EIC then installed a new well vault/collar, a locking compression well cap, and a weather resistant key lock. Following all well repair activities, the new TOC for MW-10 was determined by survey as discussed in Section 4.5.

4.2.2.2 MW-13

MW-13 is located on the southwest side of the GPA property, adjacent to the Flint River, as illustrated in Figure 3-1. Historically, MW-13 has been dry during events when the water table was relatively low due to a build-up of silt/fines in the well. The total depth of MW-13, according to the well construction log, was 21.70 feet below TOC. During a recent field measurement, however, EIC noticed that the actual depth to bottom was 16.43 feet below TOC. Therefore, approximately 5.27 feet of silt had accumulated in MW-13. Since the well column was silted up the well was found to be dry during several previous sampling events.

To remove the silt, EIC retained the same drilling company that installed MW-23 to surge MW-13 with tap water. A centrifugal pump with a stinger hose attachment was utilized to surge tap water into MW-13 to wash out the silt in the well casing. Following surging activities, the well was re-developed utilizing a submersible pump until the purge water was relatively free of fines. Following the completion of development activities, EIC measured the depth to bottom and discovered that the total well depth had increased to 22.2 feet below TOC. This will allow EIC to consistently sample MW-13 during future sampling events.

4.2.2.3 MW-15

MW-15 is located on Agrium property near the edge of the former Agrium property warehouse, as illustrated in Figure 3-1. Apparently during the demolition process of the former Agrium property warehouse, the well pad and vault for MW-15 was completely destroyed and the upper well casing deformed. Additionally, when the well casing was damaged, the well cap was lost or destroyed. Since the TOC was only approximately 0.5 inch above the ground surface, surface soil and rocks had apparently washed into the well during rain events silting the well and effectively raising the well bottom. As the well casing was deformed, a new locking cap could not be installed in the well casing to prevent further silting. The total well depth of MW-15 is 23 feet below TOC, according to the well construction log, and the total well depth to the silted bottom that EIC measured in September 2013 was 20.11 feet. Therefore, EIC determined that a total of 2.89 feet of silt had built up in MW-15.

During the April 2014 well repair activities, EIC removed the damaged section of the well casing and replaced it new casing to restore the TOC to its approximate original elevation. After the well casing was repaired, EIC installed a new well vault/collar, a locking compression well cap, and weather resistant key lock. Following the repairs, EIC surged and developed MW-15, utilizing the same process as described in Section 4.2.2.2. During the surging process it was determined that small rocks were present in the well that could not be removed utilizing the surge and pump technique. These were left in place. After surging and re-development was completed, a new total well depth of 21.60 feet below TOC was measured. Therefore, MW-15 still contained approximately 1.40 feet of small rocks/gravel. Following all well repair and re-development activities, the new TOC for MW-15 was surveyed as discussed in Section 4.5.

4.2.2.4 MW-17

MW-17 is located on the southwest side of the GPA property northeast of MW-13 and adjacent to the Flint River, as illustrated in Figure 3-1. An approximately 1-foot section of the upper well casing of MW-17 had become loose and found to be leaning to one side since March 2013 – potentially causing slightly varying gauging measurements. This was due to a damaged screw coupling approximately one foot below TOC. During the April 2014 well repair and installation activities, EIC utilized a liquid adhesive to affix the loose section rigidly vertically into place. Following all well repair activities, the new TOC for MW-17 was surveyed as discussed in Section 4.5.

4.3 STILLING WELL SW-1 INSTALLATION

To collect water level data from the Flint River, EIC installed a temporary stilling well, SW-1 at the bulkhead along the Flint River. A stilling well provides a representative water level by reducing water level interference due to wind-born waves and ship wakes and protects water level logging transducers inserted into the well from drifting with the water currents or being struck by objects carried by the water current.

The stilling well was installed on March 24, 2014. Prior to installing the stilling well, EIC and GPA inspected the dock at the south side of the terminal to find a suitable location to install the stilling well. EIC located an area on the southeastern corner of an elevated pier platform where there are a series of horizontal steel I-beams spaced approximately 5.5 feet apart, each of which have three evenly spaced approximately 2.5-inch diameter holes. According to the Terminal manager, the river water level has always extended to this location. EIC selected the easternmost series of holes in the I-beams for the installation of the stilling well adjacent to a corner pier piling that would act as a barrier to the river current and objects carried in the current. Prior to installation, EIC measured the depth to the water level and the depth to the river bottom from the pier with a decontaminated oil/water interface probe. From the gauging data, EIC determined that a 30-foot length of 2-inch diameter PVC solid well casing with a 5-foot 20-slot well screen would be sufficient to reach the bottom of the Flint River from the upper horizontal I-beam of the pier. EIC then lowered the PVC casing and screen through the holes in each I-beam into the Flint River until it was seated approximately 0.33 feet into a hard bottom – likely composed of rip rap. To ensure the stability of the well, EIC then tightly secured the pipe to the

upper I-beam with 5 stainless-steel hose clamps. Figure 4-3 depicts the as-built drawing of the stilling well and Photograph 5 identifies the well location along the bulkhead.

4.4 JULY 2014 WELL SURVEY

Following the completion of the well installations and well repair and development activities, EIC retained Donaldson Garrett and Associates (DGA), a Georgia licensed surveyor, to survey the new TOC elevations of repaired wells MW-10, MW-15, and MW-17, as well as the TOC elevation and location of wells MW-23 and SW-1. DGA conducted the survey in July 2014 utilizing conventional survey techniques. The TOC and ground surface elevations were measured to within 1/100th of a foot. The July 2014 DGA survey report, in Attachment E, documents the location and elevation of each well TOC surveyed.

SECTION

5

5. AQUIFER CHARACTERIZATION

To determine site-specific aquifer characteristics required for groundwater modeling, EIC conducted slug tests in each of three wells at the site, MW-6, MW-17, and MW-21, in March 2014. These wells were selected since the well screens of these wells were known to be fully submerged. After the slug tests were conducted, the data was analyzed using Aqtesolv software with the Kansas Geological Survey (KGS) curve matching model (Duffield, 2007). The following sub-sections describe the process by which the slug tests were conducted and the subsequent method of data collection and analysis.

5.1 Slug Test Format

EIC conducted slug testing in accordance with EPA Standard Operating Procedures (SOP) 2046 (EPA, 1994). EIC installed a water level transducer data logger in each well 24 hours prior to the initiation of the slug tests. To perform the slug test, EIC utilized In-Situ MiniTROLL™ transducers, which were calibrated to atmospheric conditions prior to use. The probes were placed approximately two feet above the bottom of each well and were secured at the ground surface utilizing plastic stakes, as illustrated in Photograph 6. Once each transducer was installed, EIC recorded the depth of water above each probe as a reference point.

Following the proper placement of each transducer and after 24 hours, EIC lowered a decontaminated PVC slug, illustrated in Photograph 7, into each well just above the groundwater surface. The slug was attached via a rope to a plastic stake at ground surface with sufficient slack to ensure that the slug would not directly contact the transducer probe when lowered. Prior to inserting each PVC slug, the transducers were programmed to record the water level in each well at one-second intervals. After the preceding tasks were completed, the slug was allowed to drop by gravity - from just above the water surface - into the water column. This process was performed as instantaneously as possible to begin the slug-in test.

EIC monitored the water level of each test well over time utilizing the transducer until the water level in each well returned to the approximate starting level. Each time this occurred, EIC then removed each PVC slug to begin the slug-out test. The PVC slug was removed by hand as instantaneously as possible and removed from the well casing. EIC then continued to monitor each well until the water levels in each well returned to their approximate starting level. EIC repeated this process for each well for a total of three times over a total period of 72 hours. The

data was then downloaded in the field onto a laptop computer to be later compiled and analyzed. EIC then uploaded the data onto EIC's office server for data analysis.

5.2 Slug Test Analysis

Utilizing Aqtesolv software, EIC analyzed the water level data from each transducer for each slug-in test with the KGS curve matching model. The curve matching model utilizes known well construction conditions along with the collected field data to estimate hydraulic conductivity. EIC analyzed each data set for each of the three separate events at each well and then averaged the hydraulic conductivity values to obtain a site-wide average hydraulic conductivity. Figures 5-1 through 5-3, 5-4 through 5-6, and 5-7 through 5-9 illustrate the results of each slug test analysis for wells MW-6, MW-17, and MW-21, respectively. The individual averages for each model are tabulated in Table 5-1.

Figures 5-1 through 5-9 have two axes, the y-axes denotes the normalized head and the x-axes denotes time in a logarithmic scale. The normalized head is the ratio of water column height to the initial displacement water column height within the well. The initial displacement height was obtained from the maximum observed height of water column after introducing the PVC slug. The exponentially decreasing curves represented in Figures 5-4 through 5-9, indicate that MW-17 and MW-21, have adequate hydraulic connections to the outlying aquifer. The slowly decreasing curves illustrated in Figures 5-1 through 5-3, typically represent a potential for confining units.

The hydraulic conductivity at wells MW-17 and MW-21 were relatively similar and are consistent with the predominant water-bearing sand layer illustrated in the cross-section figures (Figures 9-2, 9-3 and 9-4) presented in the site conceptual model (SCM) section of this report (Section 9). However, it is notable that the hydraulic conductivity at MW-6 was lower by two orders of magnitude as compared to that at wells MW-17 and MW-21. This indicates that there may be confining layers near the screened interval of MW-6. It is important to note, however, that no confining units were reported on the boring log for MW-6 – as indicated in Figure 9-2 of this report.

The resultant average hydraulic conductivity for the site was computed to be $2.345E^{-02}$ cm/second and is tabulated in Table 5-1. The data from the slug test analysis will be utilized in groundwater transport modelling and discussed in further detail in an updated SCM report to be presented in in a future semi-annual report.

SECTION

6

6. LONG-TERM RIVER LEVEL ANALYSIS

The Flint River is the major surface water body adjacent to the site. Considering that the subsurface at the site is comprised of a network of storm water conveyance substructures, 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 determining the hydrodynamics of groundwater flow at the site.

As discussed in the Third Semi-annual Report, EIC conducted an initial attempt to collect gauging data for this purpose in April 2014. However, due to malfunctioning transducer equipment, EIC aborted this study. In early September of 2014, EIC reinitiated the study utilizing LevelTROLL™ down-hole pressure transducers with data-logging capabilities. These were installed at wells MW-12, MW-13, MW-23, and the stilling well (SW-1), illustrated in Figure 3-1. This data was retrieved from the transducers in late September 2014 and is currently being evaluated. The analysis and findings of this study will be presented in an updated SCM in a future semi-annual report.

SECTION

7

7. IDW CHARACTERIZATION

In July 2014, EIC conducted investigative derived waste (IDW) characterization in order to properly identify drummed waste on the site for disposal. IDW on the site is stored in sealed and labeled steel 55-gallon drums and consists of liquid waste derived from of well development and sampling as well as solid waste which consists of soil and concrete derived from well construction and repair. In total, as of September 2014, there were 14 drums on site: 6 solid IDW and 7 liquid IDW drums, as pictured in Photographs 8 and 9. Additionally, during the September 2014 groundwater monitoring event, one more liquid IDW drum was placed by EIC at the site for purge water. Photographs 8 and 9 show the drums by the RSW and by a warehouse near the Flint River, respectively, in July 2014. The drums have all since been moved to the location adjacent to the warehouse near the Flint River.

7.1 Solid Waste Characterization

7.1.1 Sampling Protocol

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

Samples were collected utilizing a decontaminated sand auger. The auger has a 1.25-inch inner diameter (ID) and is 36 inches long with replaceable acetate liners. The probe was utilized to collect a continuous soil core from the entire soil column in each drum. The probe was advanced manually primarily by direct downward force with rotation. If refusal was encountered, while advancing the probe, a sliding hammer or leverage hammer was used to advance the probe. Each solid waste sample was emptied into a decontaminated stainless steel bowl and homogenized.

The samples were homogenized in accordance with EPD's guidance document SESDPROC-300-R2 (EPA, 2011). Accordingly, each solid waste sample was collected from one or more borings for each drum and placed into a stainless steel bowl. Each solid waste sample was then thoroughly mixed, via the quartering method, and the homogenized sample was then placed into a 4-ounce sample jar for SW-846 1311/8081B analysis. All excess solid waste sample material was returned to the respective sampled drum.

All sample jars were properly sealed and labeled in the field. Each sample was then stored with ice in an insulated cooler container provided by the laboratory. A completed chain of custody form accompanied all samples. EIC submitted all solid waste samples to Xenco Laboratories, a Georgia Department of Natural Resources certified laboratory located in Norcross, Georgia, for analysis.

7.1.2 Sample Analysis

The laboratory prepared a composite sample of a representative portion of the samples from each individual sample. The composite sample was then analyzed utilizing the toxicity characteristic leaching procedure (TCLP) protocol (CFR, 2013).

The laboratory retained individual samples from each solid waste drum for individual analysis in the event that the results of the composited samples indicated concentrations in excess of the thresholds for hazardous waste classification. The laboratory report is included as Attachment F. The results from the laboratory analysis are summarized in Table 7-1 and indicate that all drums contain non-hazardous waste and can thus be appropriately disposed of.

7.2 Liquid Waste Characterization

The primary constituents of the drums containing liquid IDW on site are purge water from the development of wells MW-13, MW-15, and MW-23 and purge water from sampling events. As such, characterization of this waste was based upon contamination levels determined from previous groundwater sampling events for existing wells and contamination levels at the newly installed well MW-23. Therefore, in July 2014, MW-23 was sampled via standard groundwater sampling methods, as described in Section 3.1 of this report. The resulting lab report of this analysis is included in Attachment F. Table 7-2 summarizes the maximum contaminate levels from purge water observed at the site and indicates that the containerized liquid IDW on site is non-hazardous.

7.3 Disposal of IDW

Based on the sample analysis, both the soil and liquid wastes are characterized as non-hazardous wastes. In order to maximize disposal efficiency and save on subcontractor mobilization costs, EIC has postponed the disposal of on-site IDW until such time as quantities of IDW are in sufficient quantities to allow for cost-effective and efficient disposal. EIC will continue to monitor and maintain the condition of IDW drums until this time.

SECTION

8

8. AOC-1 HEALTH AND SAFETY BRIEFING

On June 9th and 10th of 2014, EIC conducted a BHC safety awareness program for all onsite GPA employees that manage the daily functions at the Bainbridge Terminal. The awareness program covered the following topics relative to BHC contamination at the site:

- Site Orientation
- Current Environmental Hazards
- Characterized Hazard Areas
- Site Remedy and Engineering Controls
- Emergency Contacts
- Exposure routes, limits, symptoms, first aid, PPE, and related topics

Any new employees at the terminal are also required to complete a BHC safety awareness program in accordance with GPA's safety program.

SECTION

9

9. SITE CONCEPTUAL MODEL

As discussed in Section 2 of the VIRP, the SCM will be progressively updated utilizing newly available data on hydrogeology, release sources, extent of COC plumes, probable fate and transport mechanisms, potential exposure pathways, potential receptors, and COC plumes mobility and stability. Based on additional site data, compiled since the initiation of the VIRP, EIC is in the process of updating the initial Site Conceptual Model (SCM).

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, aquifer testing, and groundwater modeling.

Utilizing historical well construction logs and other site data, EIC has prepared three hydrogeological cross-sections depicting the subsurface characteristics of the site. The horizontal traces of each cross section at the site is depicted in plan view in Figure 9-1. Cross-sections A-A', B-B', and C-C' are illustrated in Figures 9-2, 9-3, and 9-4, respectively. Each cross-section includes September 2014 groundwater elevation and beta-BHC concentrations at each well. The cross-sections were prepared using stratigraphy modeling software to interpolate lithological layers recorded during well boring between wells. This provides a spatial reference for static site conditions and these cross sections will be further analyzed and utilized in an updated SCM report.

SECTION

10

10. SUMMARY

During the eight-month period from March 2014 through October 2014, EIC has continued to successfully conduct site activities to meet the primary objectives set forth in the VIRP. The following is a summary of various tasks conducted during this eight-month period.

In Section 2.0 EIC has addressed EPD's July 2, 2014 comments (EPD, 2014) based on EIC's current knowledge of site conditions and from additional material. The key aspect of EIC's response entails the acknowledgement of EPD's concurrence that AOC-3 delineation is complete, vertical delineation of COCs is complete, and the presence of BHC upgradient of GPA's site. EPD has, however, required further horizontal delineation in the AOC-2 and well MW-13 areas. EIC has also provided an updated table listing confirmatory samples collected by previous contractors in the North Area.

Having completed quarterly groundwater monitoring and trend analysis during the first full year of the monitoring program, EIC has shifted to a semi-annual groundwater monitoring schedule. Therefore, groundwater monitoring was conducted in March and September of 2014. EIC has observed that seasonal variations in precipitation apparently have a significant effect on the potentiometric surface. Additionally, it was noted that the highest concentrations of BHC at the site continues to be located within the northeastern up-gradient portion of the site across the Spring Creek Road right-of-way from the GGS property.

Since well MW-23 was added to the monitoring well network, near the southern extent of the site, subsequent groundwater monitoring at this well has further clarified that the Beta-BHC plume is not fully delineated towards the down-gradient southwestern portion of the site. EIC is currently planning to place new monitoring wells in this down-gradient area to fully delineate the Beta-BHC plume. The alpha and beta isomer BHC plumes have been fully delineated, except within the northeastern up-gradient portion of the site across Spring Creek Road from the GGS property.

To maintain a representative groundwater monitoring well network, EIC conducted maintenance and repairs on the currently installed monitoring wells at the site. Each well was assessed for damages and each were addressed appropriately. All monitoring wells at the site now have adequate well vaults, lids, and accompanying hardware to provide protection against future damage. In addition, locking compression caps and key locks were installed at each well. To collect water level data from the Flint River, EIC installed a temporary stilling well, SW-1 at the bulkhead along the Flint River. After wells MW-23 and SW-1 were installed and well repairs were made, EIC utilized a

Georgia licensed surveyor, to survey the new TOC elevations of the repaired wells and the TOC elevation and locations of wells MW-23 and SW-1.

To develop a better understanding of aquifer conditions at the site, EIC conducted an aquifer testing program involving slug tests in select monitoring wells at the site. From the results of the slug tests, EIC concluded that the average hydraulic conductivity at the site is $2.345E^{-02}$ cps, which is consistent with the aquifer consisting primarily of sand. This observation relays that groundwater flow is unhindered at the site, except for some limited confining layers, as noted in Section 5.2, for the slug tests conducted at MW-6. The results of this aquifer testing program will be presented in an updated SCM.

In addition to evaluating the hydraulic conductivity for contaminant transport at the site, EIC also has initiated a long-term river level study to evaluate any effect the Flint River and the nearby bulkhead wall have on groundwater flow at the site. For this study, EIC utilized a water level transducer in the stilling well and in each of three inland wells. From newly acquired gauging data at MW-23 (one of the inland wells utilized), which is the closest monitoring well to the river, it is clearly apparent that there is a correlation between river level fluctuations and groundwater fluctuations at the site. EIC is currently evaluating the data obtained from the river level study and the effects of both the river and bulkhead wall on groundwater levels and flow. The results of this evaluation will be presented in an updated SCM.

By conducting the aforementioned site activities, EIC has generated both solid and liquid IDW. The IDW is currently being stored at the site in labeled steel 55-gallon drums. EIC has conducted a waste characterization analysis of the drummed IDW and found that all IDW generated thus far is non-hazardous. Pending future site activities which may generate both solid and liquid IDW at the site, EIC will properly dispose of the accumulated IDW in an efficient and cost-effective manner as possible when appropriate.

To maintain health and safety at the site relative to the prevailing BHC contamination, EIC conducted a health and safety awareness program for all onsite GPA employees at the Bainbridge terminal. The awareness program included site background information, site engineering control measures, and proper health and safety requirements for visitors performing work in the areas of concern.

In conclusion, EIC has successfully completed several tasks since March 2014 consistent with the VIRP objectives. EIC will continue to implement the remainder of the tasks outlined in the VIRP.

SECTION

11

11. SUMMARY OF HOURS

A monthly summary of hours invoiced for the aforementioned tasks during the period from April 2014 through October 2014 is included as Attachment G.

SECTION

12

12. REFERENCES

Duffield, G.M., 2007. *AQTESOLV for Windows Version 4.5 User's Guide*, HydroSOLVE, Inc., Reston, Virginia.

Environmental International Corporation (EIC), 2012. "*VIRP Application, BHC Remediation*", Alpharetta, Georgia, July 31, 2012.

EIC, 2013a. "*First VIRP Semi-annual Progress Report, Georgia Ports Authority – Bainbridge Terminal, HIS Site No. 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19, Bainbridge, Decatur County, Georgia".* Alpharetta, Georgia, May 9, 2013.

EIC, 2013b. "*Second VIRP Semi-annual Progress Report, Georgia Ports Authority – Bainbridge Terminal, HIS Site No. 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19, Bainbridge, Decatur County, Georgia".* Alpharetta, Georgia, October 30, 2013.

EIC, 2014. "*Third VIRP Semi-annual Progress Report, Georgia Ports Authority – Bainbridge Terminal, HIS Site No. 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19, Bainbridge, Decatur County, Georgia".* Alpharetta, Georgia, April 29, 2014.

U. S. Environmental Protection Agency (EPA), 1994. Slug Tests, Operating Procedure, Number 2046, Region 4, U.S. Environmental Protection Agency, Science and Ecosystem Support Division, Athens, Georgia. October 3, 1994.

EPA, 2011. Soil Sampling, Operating Procedure, Number SESDPROC-300-R2, Region 4, U.S. Environmental Protection Agency, Science and Ecosystem Support Division, Athens, Georgia. December 20, 2011.

EPA, 2013. Groundwater Sampling, Operating Procedure, Number SESDPROC-301-R3, Region 4, U.S. Environmental Protection Agency, Science and Ecosystem Support Division, Athens, Georgia. March 6, 2013.

Georgia Environmental Protection Division (EPD), 2014. *Letter from GA EPD to GPA, "First, Second, and Third VIRP Semi-Annual Progress Reports, Groundwater Monitoring Report July 2, 2014, Comment Letter, Georgia Ports Authority – Bainbridge Terminal, Hazardous Site Inventory Number 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19".* Atlanta, Georgia, July 2, 2014.

Georgia Ports Authority (GPA), 2014, *Email communication from Natalie Dawn to Raj Mahadevaiah of EIC,* Savannah, Georgia, August 27, 2014.

U.S. National Archives and Records Administration. 2006. CFR. *(Title 40. Protection of Environment. Sec. 261.24).* Washington, D.C., December 27, 2013

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

FOURTH VIRP SEMI-ANNUAL PROGRESS REPORT

TABLES

Table 2-1: GPA, Bainbridge Terminal, Bainbridge GA,
Soil Pesticide Data Summary Concerning RRS Constituents - Northern Area Excavation Confirmatory Sample Data

Sample Identification	Sample Depth (ft)	Sample Date	4,4'DDD	Flags	4,4'DDE	Flags	4,4'-DDT	Flags	alpha-BHC	Flags	beta-BHC	Flags	delta-BHC	Flags	gamma-BHC (Lindane)	Flags
Site-Specific RRS Values (µg/kg)			***11,000***		***7,700***		***11,000***		***660***		***3,100***		***100***		***12,000***	
Excavation Area 1																
NA-E1-EW	0-2	21-Dec-2009	**16**		**49.5**		**82.6**		**3.39**	**J**	**11.3**		**1.14**	**J**	**1.23**	**J**
NA-E1-SW	0-2	21-Dec-2009	**2.6**	**J**	**1.69**	**J**	**14.4**		**6.32**		**11.7**		**1.19**	**J**	**1.45**	**J**
NA-E1-NW	0-2	21-Dec-2009	**1040**		**598**		**2250**		**101**	**J**	**1700**		**99.5**	**J**	**44.7**	**J**
NA-E1-F	2	21-Dec-2009	4.87	U	4.87	U	**0.662**	**J**	2.44	U	4.87	U	2.44	U	2.44	U
Excavation Area 2																
NA-E2-B-F	2	20-Jan-2009	**46.4**		**66.1**		**301**		**78.7**		**282**		**9.74**	**J**	**15**	**J**
NA-E2-EW	0-2	21-Dec-2009	**3430**		**2260**		**15000**		469	U	**1300**		469	U	469	U
NA-E2-SW	0-2	21-Dec-2009	**169**		**194**		**527**		47.6	U	**383**		47.6	U	47.6	U
NA-E2-SW-DUP	0-2	21-Dec-2009	**134**		**117**		**294**		48.7	U	**412**		**11.7**	**J**	48.7	U
NA-E2-F	2	21-Dec-2009	4.82	U	**1.3**	**J**	**4.64**	**J**	**0.513**	**J**	**25.6**		2.41	U	2.41	U
Excavation Area 3																
NA-E3-EW	0-2	21-Dec-2009	**24.3**		**48.6**		**90.7**		4.61	U	**17.1**		4.61	U	4.61	U
NA-E3-WW	0-2	21-Dec-2009	**464**		**838**		**3250**		219	U	**283**	**J**	219	U	219	U
NA-E3-SW	0-2	21-Dec-2009	**3.22**	**J**	**7.05**	**J**	**16.9**		4.41	U	**9.88**		4.41	U	4.41	U
NA-E3-F	2	21-Dec-2009	**3.86**	**J**	**3.89**	**J**	**4.6**	**J**	2.34	U	**3.61**	**J**	2.34	U	2.34	U
Excavation Area 4																
NA-E4-B-F	2	20-Jan-2010	**99.1**		**10.8**	**J**	**8.45**	**J**	**28.2**		**135**		**16**		11.2	U
NA-E4-EW	0-2	21-Dec-2009	**3150**		**1300**	**J**	**18400**		**212**	**J**	**4400**		**238**	**J**	1100	U
NA-E4-WW	0-2	21-Dec-2009	**113**		**177**		**928**		**7.82**		**80.8**		42.7	U	42.7	U
NA-E4-SW	0-2	21-Dec-2009	**28.9**	**J**	**26.9**	**J**	**70.5**	**J**	**43.7**	**J**	**356**		**19.2**	**J**	45	U
NA-E4-F	2	21-Dec-2009	**123**		**19.3**	**J**	**87.9**		**29.2**		**143**		**19.8**		10.9	U
Excavation Area 5																
NA-E5-EW	0-2	22-Dec-2009	**322**		**156**	**J**	**1210**		**277**		**970**		**155**		**53.5**	**J**
NA-E5-SW	0-2	22-Dec-2009	**312**		**146**	**J**	**1580**		**147**		**708**		**103**	**J**	**58.1**	**J**
NA-E5-WW	0-2	22-Dec-2009	**1730**	**J**	**460**	**J**	**5860**		**876**	**J**	**9550**		**522**	**J**	**161**	**J**
NA-E5-F	2	22-Dec-2009	**6.64**		**2.4**	**J**	**26.5**		**18.3**		**36.1**		**5.69**		**4.11**	
Excavation Area 6																
NA-E6-B-F	2	20-Jan-2010	**383**		**36.1**	**J**	**25.9**	**J**	**338**		**608**		**98.9**		**56.3**	
NA-E6-C-F	2	20-Jan-2010	**445**	**J**	**171**	**J**	**2620**		**445**		**2510**		**318**		**240**	
NA-E6-C-F(2.5-3.0)	2.5-3	04-Mar-2010	46.6	U	46.6	U	46.6	U	**11.3**	**J**	46.6	U	23.3	U	23.3	U
NA-E6-C-F(3.0-3.5)	3-3.5	04-Mar-2010	45.9	U	45.9	U	45.9	U	**5.89**	**J**	45.9	U	22.9	U	22.9	U
NA-E6-D-F	2	20-Jan-2010	**1390**		**149**	**J**	**211**	**J**	**316**		**1240**		**360**		**70.8**	**J**
NA-E6-D-F(2.5-3.0)	2.5-3	04-Mar-2010	46.4	U	46.4	U	46.4	U	23.2	U	46.4	U	23.2	U	23.2	U
NA-E6-D-F(3.0-3.5)	3-3.5	04-Mar-2010	45.2	U	45.2	U	45.2	U	22.6	U	45.2	U	22.6	U	22.6	U
NA-E6-D-SW	0-2	20-Jan-2010	**297**	**J**	**137**	**J**	**765**	**J**	**185**	**J**	**3770**		**1110**		444	U
NA-E6-D-SWF(2.5-3.0)	2.5-3	08-Mar-2010	224	U	**130**	**J**	**648**		**82.6**	**J**	**867**		**48.1**	**J**	**113**	
NA-E6-D-SWF(3.0-3.5)	3-3.5	08-Mar-2010	45.7	U	**6.3**	**J**	**21.8**	**J**	**11.8**	**J**	**263**		22.8	U	**20.2**	**J**
NA-E6-D-SW5(0-2)	0-2	08-Mar-2010	440	U	**417**	**J**	**2700**		**247**		**2520**		**243**		**144**	**J**
NA-E6-D-SW10(0-2)	0-2	08-Mar-2010	224	U	**213**	**J**	**1110**		**26.2**	**J**	**451**		**39.6**	**J**	**33.6**	**J**
NA-E6-D-SW15(0-2)	0-2	08-Mar-2010	50.7	U	114		**435**		**18.9**	**J**	**293**		**32.6**		**39.8**	
NA-E6-D-DUP		08-Mar-2010	113	U	113		**626**		**70.7**		**654**		**50.1**	**J**	**99.1**	
NA-E6-E-EW	0-2	20-Jan-2010	**299**		**180**	**J**	**789**		**34.9**	**J**	**823**		**36.1**	**J**	**59.7**	**J**
NA-E6-E-F	2	20-Jan-2010	**343**		**58.8**	**J**	**266**		**193**		**871**		**97.9**	**J**	**26.6**	**J**
NA-E6-E-SW	0-2	20-Jan-2010	**213**		**66.4**	**J**	**122**		**22.4**	**J**	**697**		**64.2**		**18.8**	**J**
NA-E6-F-F	2	20-Jan-2010	**184**		**28.2**	**J**	**49**	**J**	**122**		**526**		**77**		**51.4**	**J**
NA-E6-F-EW	0-2	20-Jan-2010	**8740**	**J**	19000	U	**14400**	**J**	**4790**	**J**	**68200**		**6580**	**J**	9510	U
NA-E6-F-EWF(2.5-3.0)	2.5-3	08-Mar-2010	1810	U	**292**	**J**	**4290**		**186**	**J**	**9220**		**215**	**J**	906	U
NA-E6-F-EWF(2.5-3.0) MS	2.5-3	08-Mar-2010	1790	U	1790	U	**1970**		897	U	**3110**		897	U	897	U
NA-E6-F-EWF(2.5-3.0) MSD	2.5-3	08-Mar-2010	1790	U	**311**	**J**	**3250**		**296**	**J**	**6430**		**303**	**J**	894	U
NA-E6-F-EWF(3.0-3.5)	3-3.5	08-Mar-2010	**61.7**	**J**	230	U	**329**		**176**		**1070**		**376**		**34.9**	**J**
NA-E6-F-EW5(0-2)	0-2	05-Mar-2010	46.5	U	46.5	U	46.5	U	23.3	U	46.5	U	23.3	U	23.3	U
NA-E6-F-EW5(3.5-4.0)	3.5-4.0	21-Apr-2010	44.8	U	44.8	U	**8.82**	**J**	**14.7**	**J**	**40.7**	**J**	**7.81**	**J**	22.4	U
NA-E6-F-EW5(4.0-4.5)	4.0-4.5	21-Apr-2010	46.2	U	46.2	U	**12.9**	**J**	**17.6**	**J**	**36.4**	**J**	23.1	U	23.1	U
NA-E6-F-EW5(4.5-5.0)	4.5-5.0	21-Apr-2010	48.7	U	48.7	U	48.7	U	24.4	U	**48.7**	**U**	24.4	U	24.4	U
NA-E6-F-EW10(0-2)	0-2	05-Mar-2010	45.3	U	45.3	U	45.3	U	22.7	U	45.3	U	22.7	U	22.7	U
NA-E6-F-EW10(3.5-4.0)	3.5-4.0	21-Apr-2010	45.5	U	45.5	U	45.5	U	22.8	U	**21.7**	**J**	22.8	U	22.8	U
NA-E6-F-EW10(4.0-4.5)	4.0-4.5	21-Apr-2010	49.8	U	49.8	U	49.8	U	24.9	U	**15.3**	**J**	24.9	U	24.9	U
NA-E6-F-EW10(4.5-5.0)	4.5-5.0	21-Apr-2010	49	U	49	U	49	U	24.5	U	**12.5**	**J**	24.5	U	24.5	U
NA-E6-F-EW15(0-2)	0-2	05-Mar-2010	46.3	U	46.3	U	46.3	U	23.2	U	46.3	U	23.2	U	23.2	U
NA-E6-F-EW15(3.5-4.0)	3.5-4.0	21-Apr-2010	45.2	U	45.2	U	**9.66**	**J**	**5.17**	**J**	**66.7**		**17.2**	**J**	22.6	U
NA-E6-F-EW15(4.0-4.5)	4.0-4.5	21-Apr-2010	46.1	U	46.1	U	**11.4**	**J**	23	U	**46.8**		23	U	23	U
NA-E6-F-EW15(4.5-5.0)	4.5-5.0	21-Apr-2010	47.7	U	47.7	U	47.7	U	23.8	U	**20.7**	**J**	23.8	U	23.8	U
NA-E6-F-EW20(2.5-3.0)	2.5-3.0	21-Apr-2010	45.5	U	45.5	U	45.5	U	22.8	U	**89**		22.8	U	22.8	U

Table 2-1: GPA, Bainbridge Terminal, Bainbridge GA,
Soil Pesticide Data Summary Concerning RRS Constituents - Northern Area Excavation Confirmatory Sample Data

Sample Identification	Sample Depth (ft)	Sample Date	4,4'DDD	Flags	4,4'DDE	Flags	4,4'-DDT	Flags	alpha-BHC	Flags	beta-BHC	Flags	delta-BHC	Flags	gamma-BHC (Lindane)	Flags
Site-Specific RRS Values (µg/kg)			***11,000***		***7,700***		***11,000***		***660***		***3,100***		***100***		***12,000***	
NA-E6-F-EW20(3.0-3.5)	3.0-3.5	21-Apr-2010	46.3	U	46.3	U	46.3	U	23.2	U	**45.9**	**J**	23.2	U	23.2	U
NA-E6-F-EW25(2.5-3.0)	2.5-3.0	21-Apr-2010	**63.1**		**12.4**	**J**	44.6	U	**21.4**	**J**	**27**	**J**	**22.5**		22.3	U
NA-E6-F-EW25(3.0-3.5)	3.0-3.5	21-Apr-2010	45.5	U	45.5	U	45.5	U	22.7	U	**22**	**J**	22.7	U	22.7	U
NA-E6-F-EW30(2.5-3.0)	2.5-3.0	21-Apr-2010	**65.8**		**36.1**	**J**	**86.6**		**130**		**632**		**35.8**		**21.9**	**J**
NA-E6-F-EW30(3.0-3.5)	3.0-3.5	21-Apr-2010	45.7	U	45.7	U	45.7	U	22.8	U	**5.97**	**J**	22.8	U	22.8	U
NA-E6-F-EWSOUTH(2.0-2.5)	2.0-2.5	30-Apr-2010	45.6	U	45.6	U	45.6	U	22.8	U	45.6	U	22.8	U	22.8	U
NA-E6-EWN-F(2.0-2.5)	2.0-2.5	30-Apr-2010	46.4	U	46.4	U	46.4	U	23.2	U	46.4	U	23.2	U	23.2	U
NA-E6-F-NW	0-2	20-Jan-2010	**369**		**360**		**948**		47.3	U	**288**		47.3	U	47.3	U
NA-E6-F	2	22-Dec-2009	**1850**		**105**		**236**		**429**		**1500**		**347**		**28.9**	
NA-E6-EW	0-2	22-Dec-2009	**530**		**205**	**J**	**2090**		**302**		**2020**		**445**		**103**	**J**
NA-E6-NW	0-2	22-Dec-2009	**1590**		**537**	**J**	**5120**		**400**	**J**	**3780**		**371**	**J**	**148**	**J**
NA-E6-SW	0-2	22-Dec-2009	**456**		**123**	**J**	**1050**		**2080**		**2350**		**438**		**297**	
NA-E6-WW	0-2	22-Dec-2009	**716**		**296**	**J**	**3830**		**342**		**1590**		**294**		**142**	**J**
Excavation Area 7																
NA-E7-NW	0-2	22-Dec-2009	**2560**	**J**	**592**	**J**	**7170**		**1010**	**J**	**23200**		**1690**	**J**	2170	U
NA-E7-EW	0-2	22-Dec-2009	**185**		**309**		**990**		**15.8**	**J**	**297**		**25.6**	**J**	**19.8**	**J**
NA-E7-EW	0-2	29-Dec-2009	**218**		**363**		**1320**		**13.2**	**J**	**269**		**14.3**	**J**	**9.14**	**J**
NA-E7-WW	0-2	22-Dec-2009	**45.5**		**35.2**	**J**	**334**		**31**		**117**		**18.1**	**J**	**16.7**	**J**
NA-E7-WW	0-2	29-Dec-2009	**61.2**		**56.5**		**295**		**57.6**		**308**		**32.3**		**21.9**	**J**
NA-E7-SW	0-2	22-Dec-2009	**277**		**195**	**J**	**1060**		**263**		**1150**		**81.1**	**J**	**48.7**	**J**
NA-E7-SW	0-2	29-Dec-2009	**16.9**		**35.4**		**123**		**3.88**	**J**	**97.5**		**5.59**		**6.21**	
NA-E7-F	2	22-Dec-2009	4.3	U	**2.76**	**J**	**24.6**		**12.6**		**28.3**		**0.709**	**J**	**0.813**	**J**
NA-E7-F	2	29-Dec-2009	**253**		**101**	**J**	**683**		**109**	**J**	**1220**		**98.6**	**J**	**37.9**	**J**
Excavation Area 8																
NA-E8-B-F	2	20-Jan-2010	**172**	**J**	**52.1**	**J**	**903**		**103**	**J**	**914**		**75.2**	**J**	114	U
NA-E8-EW	0-2	22-Dec-2009	**250**		**118**		**1040**		**36.8**	**J**	**472**		**83.2**		**30.7**	**J**
NA-E8-SW	0-2	22-Dec-2009	4.73	U	**0.904**	**J**	**4.44**	**J**	2.37	U	**6.56**		2.37	U	2.37	U
NA-E8-WW	0-2	22-Dec-2009	**3640**		**992**	**J**	**18900**		**1880**		**13900**		**1260**		**698**	**J**
NA-E8-F	2	22-Dec-2009	9.54	U	9.54	U	9.54	U	0.895	U	**54.5**		**1.14**	**J**	4.77	U
Excavation Area 9																
NA-E9-B-F	2	20-Jan-2010	**867**	**J**	**256**	**J**	**3610**		**256**	**J**	**6870**		**873**		580	U
NA-E9-B-F(2.5-3.0)	2.5-3	04-Mar-2010	48.6	U	48.6	U	48.6	U	24.3	U	**111**		24.3	U	24.3	U
NA-E9-B-F(3.0-3.5)	3-3.5	04-Mar-2010	45.7	U	**6.05**	**J**	**17.4**	**J**	**107**		**140**		22.9	U	**12.6**	**J**
NA-E9-EW	0-2	22-Dec-2009	**552**		**194**	**J**	**2680**		**99**	**J**	**2420**		**137**	**J**	**63.5**	**J**
NA-E9-SW	0-2	22-Dec-2009	4.56	U	**5.01**		**13**		2.28	U	**2.1**	**J**	2.28	U	2.28	U
NA-E9-WW	0-2	22-Dec-2009	**1220**	**J**	**361**	**J**	**3540**		**254**	**J**	**11300**		**265**	**J**	1140	U
NA-E9-F	2	22-Dec-2009	**12.7**	**J**	45.8	U	**24.8**	**J**	22.9	U	**195**		**6.19**	**J**	22.9	U
Excavation Area 10																
NA-E10-A-NW	0-2	30-Dec-2009	908	U	**2320**		908	U	4540	U	**1470**		4540	U	4540	U
NA-E10-A-SW	0-2	30-Dec-2009	**1420**		**401**	**J**	**8970**		**4280**		**9460**		**2480**		**822**	
NA-E10-A-EW	0-2	30-Dec-2009	22.9	U	**12.8**	**J**	22.9	U	**21.6**		**65.3**		**11**	**J**	**11.8**	
NA-E10-A-WW	0-2	30-Dec-2009	454	U	**1200**		454	U	**43.5**	**J**	**305**	**J**	**85.9**	**J**	227	U
NA-E10-A-F	2	30-Dec-2009	250	U	**152**	**J**	**1250**		**1390**		**2540**		**1130**		**569**	
NA-E10-B1-NW	0-2	30-Dec-2009	22.5	U	22.5	U	22.5	U	**29**		**87.5**		**37.4**		**5.88**	**J**
NA-E10-B1-WW	0-2	30-Dec-2009	23900	U	23900	U	23900	U	**126000**		**17400**	**J**	120000	U	**2520**	**J**
NA-E10-B1-F	2	30-Dec-2009	**391**	**J**	**72.5**	**J**	**1730**		**3870**		**2500**		**561**		**459**	
NA-E10-B2-WW	0-2	30-Dec-2009	48	U	**8.3**	**J**	**40.2**	**J**	**46.6**		**247**		24	U	**11.5**	**J**
NA-E10-B2-SW	0-2	30-Dec-2009	327	U	327	U	**85.7**	**J**	**2050**		**1810**		**121**	**J**	**332**	
NA-E10-B2-F	2	30-Dec-2009	**639**		263	U	**1190**		**1930**		**1890**		**483**		**329**	
NA-E10-C1-NW	0-2	30-Dec-2009	4.6	U	4.6	U	4.6	U	**11.9**		**49.9**		**22.9**		**3.34**	
NA-E10-C1-EW	0-2	30-Dec-2009	**1680**		**237**	**J**	**421**		**173**		**1890**		**523**		**58.8**	**J**
NA-E10-C1-F	2	30-Dec-2009	**15**		**2.71**	**J**	**3.01**	**J**	**2.06**	**J**	**15.2**		**4.58**		**0.795**	**J**
NA-E10-C2-SW	0-2	30-Dec-2009	**171**		**29.4**	**J**	**77.5**		**24.9**	**J**	**346**		**16.8**	**J**	**7.63**	**J**
NA-E10-C2-F	2	30-Dec-2009	**334**		**35.7**	**J**	**78.6**		**117**		**241**		**59.8**		**12.5**	**J**
NA-E10-E-NW	0-2	17-Dec-2009	**525**		**56.2**	**J**	**72.4**	**J**	**99.9**	**J**	**1040**		**187**		**42.5**	**J**
NA-E10-E-WW	0-2	17-Dec-2009	**51.2**	**J**	464	U	**252**		**87.3**	**J**	**1980**		**107.0**	**J**	232.0	U
NA-E10-E-EW	0-2	17-Dec-2009	4.48	U	**1.46**	**J**	**2.14**	**J**	**1.06**	**J**	**1.91**	**J**	**0.528**	**J**	**0.539**	**J**
NA-EI0-E-SW	0-2	17-Dec-2009	4.6	U	**1.16**	**J**	**5.44**		**0.80**	**J**	**22.60**		**0.54**	**J**	2.30	U
NA-E10-E-F	2	17-Dec-2009	**509**	**J**	**4650**	**U**	**1870**	**J**	**642**	**J**	**25800**		2330	U	2330	U
NA-E10-F-SW	0-2	17-Dec-2009	**72.7**	**J**	**26.8**	**J**	**181**	**J**	**178**		**948**		111	U	**45.5**	**J**
NA-E10-F-WW	0-2	17-Dec-2009	**88.7**		237	U	**227**	**J**	**1440**		**1440**		**168**		**228**	
NA-E10-F-NW	0-2	17-Dec-2009	2260	U	2260	U	2260	U	**612**	**J**	**13400**		**306**	**J**	1130	U
NA-E10-F-D	2	17-Dec-2009	**19.6**	**J**	**12.8**	**J**	**89.3**		**146**		**577**		**38.4**	**J**	**24.9**	**J**
NA-E10-F-F	2	17-Dec-2009	**32.4**		229	U	**127**	**J**	**307**		**758**		**61.2**	**J**	**51.9**	**J**

Table 2-1: GPA, Bainbridge Terminal, Bainbridge GA,
Soil Pesticide Data Summary Concerning RRS Constituents - Northern Area Excavation Confirmatory Sample Data

Sample Identification	Sample Depth (ft)	Sample Date	4,4'DDD	Flags	4,4'DDE	Flags	4,4'-DDT	Flags	alpha-BHC	Flags	beta-BHC	Flags	delta-BHC	Flags	gamma-BHC (Lindane)	Flags
Site-Specific RRS Values (µg/kg)			***11,000***		***7,700***		***11,000***		***660***		***3,100***		***100***		***12,000***	
NA-E10-G-F	2	20-Jan-2010	444	U	444	U	444	U	**546**		**1110**		**379**		**145**	**J**
NA-E10-G-F(2.5-3.0)	2.5-3	04-Mar-2010	94.6	U	94.6	U	94.6	U	**9.64**	**J**	**79**	**J**	**13.4**	**J**	**18**	**J**
NA-E10-G-F(3.0-3.5)	3-3.5	04-Mar-2010	45.2	U	45.2	U	45.2	U	22.6	U	45.2	U	22.6	U	22.6	U
NA-E10-H-F	2	20-Jan-2010	492	U	492	U	**122**	**J**	**730**		**1360**		**345**		**148**	**J**
NA-E10-H-F(2.5-3.0)	2.5-3	04-Mar-2010	23800	U	23800	U	23800	U	**126000**		**36100**		**4570**	**J**	**6520**	**J**
NA-E10-H-F(3.0-3.5)	3-3.5	04-Mar-2010	**4120**	**J**	23400	U	23400	U	**119000**		**27100**		**8840**	**J**	**10800**	**J**
NA-E10-H-F(3.5-4.0)	3.5-4.0	19-Apr-2010	92.1	U	92.1	U	92.1	U	**9.78**	**J**	92.1	U	46	U	46	U
NA-E10-H-F(4.0-4.5)	4.0-4.5	19-Apr-2010	90.9	U	90.9	U	90.9	U	**8.3**	**J**	90.9	U	45.5	U	45.5	U
NA-E10-I-F	2	27-Jan-2010	**186**	**J**	474	U	**326**	**J**	**1690**		**1020**		**162**	**J**	**152**	**J**
NA-E10-I-F(2.5-3.0)	2.5-3	08-Mar-2010	47.6	U	47.6	U	**13.1**	**J**	**48.9**		**85.9**		**7.76**	**J**	**7.28**	**J**
NA-E10-I-F(3.0-3.5)	3-3.5	08-Mar-2010	50.4	U	50.4	U	50.4	U	**66**		50.4	U	25.2	U	25.2	U
NA-E10-J-F	2	27-Jan-2010	229	U	229	U	**200**	**J**	**1090**		**558**		**150**		**134**	
NA-E10-J-F(2.5-3.0)	2.5-3	08-Mar-2010	45.7	U	45.7	U	45.7	U	22.9	U	45.7	U	22.9	U	22.9	U
NA-E10-J-F(3.0-3.5)	3-3.5	08-Mar-2010	45.7	U	45.7	U	45.7	U	22.8	U	45.7	U	22.8	U	22.8	U
NA-E10-K-F	2	27-Jan-2010	**31.6**	**J**	122	U	**44.1**	**J**	**742**		**221**		**35.6**	**J**	**40**	**J**
NA-E10-K-F(2.5-3.0)	2.5-3	08-Mar-2010	44.7	U	44.7	U	44.7	U	22.3	U	44.7	U	22.3	U	22.3	U
NA-E10-K-F(3.0-3.5)	3-3.5	08-Mar-2010	44.6	U	44.6	U	44.6	U	22.3	U	44.6	U	22.3	U	22.3	U
NA-E10-L-F	2	20-Jan-2010	97.8	U	97.8	U	97.8	U	**572**		**582**		**136**		**74.2**	
NA-E10-L-F(2.5-3.0)	2.5-3	04-Mar-2010	1910	U	1910	U	1910	U	**8970**		**3110**		**1320**		**3650**	
NA-E10-L-F(3.0-3.5)	3-3.5	04-Mar-2010	227	U	227	U	**34.4**	**J**	**1010**		**287**		**95.3**	**J**	**130**	
NA-E10-L-F(3.5-4.0)	3.5-4.0	19-Apr-2010	4.43	U	4.43	U	4.43	U	**2.34**		**1.82**	**J**	2.22	U	2.22	U
NA-E10-L-F(4.0-4.5)	4.0-4.5	19-Apr-2010	89.3	U	89.3	U	89.3	U	**14.5**	**J**	89.3	U	44.6	U	44.6	U
NA-E10-M-F	2	27-Jan-2010	43.5	U	43.5	U	43.5	U	**18.9**	**J**	**47.3**		**8.8**	**J**	21.8	U
NA-E10-N-F	2	27-Jan-2010	45.4	U	45.4	U	45.4	U	**7.65**	**J**	**27.4**	**J**	22.7	U	22.7	U
NA-E10-O-F	2	20-Jan-2010	45.4	U	45.4	U	45.4	U	**67.7**		**241**		**126**		**28.3**	
NA-E10-O-F(3.5-4.0)	3.5-4	08-Mar-2010	47.5	U	47.5	U	47.5	U	**54.1**		**27.7**	**J**	23.7	U	**9.14**	**J**
NA-E10-O-F(4.0-4.5)	4-4.5	08-Mar-2010	48.5	U	48.5	U	48.5	U	**42**		**14.8**	**J**	24.3	U	**8.26**	**J**
NA-E10-P-F	2	27-Jan-2010	48.6	U	48.6	U	48.6	U	**15.8**	**J**	**15.8**	**J**	24.3	U	24.3	U
NA-E10-Q-F	2	20-Jan-2010	44.5	U	44.5	U	44.5	U	**11**	**J**	**109**		**21.6**	**J**	**9.39**	**J**
NA-E10-R-F	2	20-Jan-2010	9.73	U	9.73	U	9.73	U	**7.99**		**39.4**		**6.57**		**3.28**	**J**
NA-E10-S-F		28-Jan-2010	45.2	U	45.2	U	45.2	U	**8.84**	**J**	**40.8**	**J**	22.6	U	22.6	U
NA-E10-S-MS		28-Jan-2010	**78.2**		**56.4**		**205**		**1290**	**E**	**2210**	**E**	**283**		**450**	**E**
NA-E10-S-MSD		28-Jan-2010	**120**		**97.3**		**319**		**1440**	**E**	**2650**	**E**	**441**	**E**	**698**	**E**
NA-E10-T-F		28-Jan-2010	**85.5**		**50.8**		**636**		**53.2**		**190**		**15**	**J**	**8.2**	**J**
NA-E10-U-F		28-Jan-2010	**10.4**	**J**	**9.37**	**J**	**63.7**		**39.4**		**73.9**		**10.9**	**J**	**7.17**	**J**
NA-E10-V-F		28-Jan-2010	4330	U	4330	U	**1630**	**J**	**34900**		**44700**		**12000**		**10900**	
NA-E10-W-F		28-Jan-2010	44.1	U	44.1	U	44.1	U	**50.9**		**133**		**34.3**		**11.1**	**J**
NA-E10-X-F		28-Jan-2010	455	U	455	U	**92.4**	**J**	**901**		**2050**		**205**	**J**	**171**	**J**
NA-E10-X-MS		28-Jan-2010	**71.7**	**J**	**57.5**	**J**	**133**	**J**	**1520**		**1920**		**243**		**366**	
NA-E10-X-MSD		28-Jan-2010	**59.5**	**J**	**58.7**	**J**	**112**	**J**	**1270**		**1620**		**212**	**J**	**310**	
NA-E10-X-F(2.5-3.0)	2.5-3	05-Mar-2010	9090	U	9090	U	9090	U	**58400**		**20600**		4540	U	**2100**	**J**
NA-E10-X-F(3.0-3.5)	3-3.5	05-Mar-2010	45.8	U	45.8	U	45.8	U	**6.93**	**J**	45.8	U	22.9	U	22.9	U
NA-E10-Y-F		28-Jan-2010	997	U	997	U	**227**	**J**	**2390**		**6420**		**174**	**J**	**235**	**J**
NA-E10-Y-MS		28-Jan-2010	1000	U	1000	U	1000	U	**1240**		**523**	**J**	500	U	**142**	**J**
NA-E10-Y-MSD		28-Jan-2010	1000	U	1000	U	1000	U	**1050**		**486**	**J**	502	U	**107**	**J**
NA-E10-Y-F(2.5-3.0)	2.5-3	05-Mar-2010	44.5	U	44.5	U	44.5	U	22.3	U	44.5	U	22.3	U	22.3	U
NA-E10-Y-F(3.0-3.5)	3-3.5	05-Mar-2010	45.5	U	45.5	U	45.5	U	22.7	U	45.5	U	22.7	U	22.7	U
NA-E10-Y-F(3.0-3.5)MS	3-3.5	05-Mar-2010	**16.6**	**J**	**19.8**	**J**	**17.3**	**J**	**20.6**	**J**	**20.8**	**J**	**20.1**	**J**	**19.6**	**J**
NA-E10-Y-F(3.0-3.5)MSD	3-3.5	05-Mar-2010	**16.7**	**J**	**18.5**	**J**	**17.5**	**J**	**22.1**	**J**	**22.4**	**J**	**20**	**J**	**20.5**	**J**
NA-E10-Z-F	2	20-Jan-2010	9.15	U	9.15	U	9.15	U	**7.33**		**40**		**8.22**		**8.03**	
NA-E10-DUP1		05-Mar-2010	46.9	U	46.9	U	46.9	U	**6.55**	**J**	46.9	U	23.4	U	23.4	U
NA-E10-DUP1		28-Jan-2010	43.9	U	43.9	U	43.9	U	**32**		**78.3**		**26.5**		**6.72**	**J**
NA-E10-DUP-2		28-Jan-2010	**37.6**	**J**	**41.9**	**J**	**202**	**J**	**77.3**	**J**	**1400**		**30.1**	**J**	**21.1**	**J**
NA-E10-DUP3		28-Jan-2010	**22**	**J**	**15.7**	**J**	**137**		**56.2**		**135**		**21.4**	**J**	**12.4**	**J**
NA-E10-DUP4		28-Jan-2010	**80.8**		**55.4**		**638**		**77.9**		**156**		**13.8**	**J**	**11.3**	**J**
Excavation Area 11																
NA-E11-A-EW	0-2	16-Dec-2009	179	U	179	U	179	U	89.6	U	**955**		89.6	U	89.6	U
NA-E11-A-NW	0-2	16-Dec-2009	**61.2**	**J**	**29.5**	**J**	**210**		**12.5**	**J**	**224**		**19.3**	**J**	22.5	U
NA-E11-A-SW	0-2	16-Dec-2009	470	U	470	U	470	U	**2370**		**391**	**J**	235	U	235	U
NA-E11-A-WW	0-2	16-Dec-2009	**5.24**		**12.2**		**36**		**3.94**		**12.8**		2.31	U	**1.39**	**J**
NA-E11-A-F	2	16-Dec-2009	**7.79**	**J**	**9.72**		**24**		**7.32**		**58.3**		**3.89**	**J**	**2.52**	**J**
NA-E11-B-WW	0-2	27-Jan-2010	8.61	U	8.61	U	8.61	U	**1.19**	**J**	**2.06**	**J**	4.31	U	4.31	U
NA-E11-B-F	2	27-Jan-2010	8.72	U	8.72	U	**1.33**	**J**	**31**		**6.76**	**J**	4.36	U	**1.08**	**J**
NA-E11-C-EW	0-2	27-Jan-2010	1810	U	1810	U	292	J	906	U	**12300**		906	U	906	U

Table 2-1: GPA, Bainbridge Terminal, Bainbridge GA,
Soil Pesticide Data Summary Concerning RRS Constituents - Northern Area Excavation Confirmatory Sample Data

Sample Identification	Sample Depth (ft)	Sample Date	4,4'DDD	Flags	4,4'DDE	Flags	4,4'-DDT	Flags	alpha-BHC	Flags	beta-BHC	Flags	delta-BHC	Flags	gamma-BHC (Lindane)	Flags
Site-Specific RRS Values (µg/kg)			***11,000***		***7,700***		***11,000***		***660***		***3,100***		***100***		***12,000***	
NA-E11-C-EWF(2.5-3.0)	2.5-3	09-Mar-2010	43.7	U	43.7	U	**9.62**	**J**	**5.69**	**J**	**31.7**	**J**	21.9	U	21.9	U
NA-E11-C-EWF(3.0-3.5)	3-3.5	09-Mar-2010	44.3	U	44.3	U	44.3	U	22.1	U	**67**		22.1	U	22.1	U
NA-E11-C-F	2	27-Jan-2010	44.6	U	**16.2**	**J**	**55.6**		**8.73**	**J**	**235**		**8.05**	**J**	22.3	U
NA-E11-C-EW5(0-2)	0-2	09-Mar-2010	44.3	U	44.3	U	44.3	U	22.2	U	44.3	U	22.2	U	22.2	U
NA-E11-C-EW10(0-2)	0-2	09-Mar-2010	43.5	U	43.5	U	43.5	U	21.7	U	**8.45**	**J**	21.7	U	21.7	U
NA-E11-C-EW15(0-2)	0-2	09-Mar-2010	44.2	U	44.2	U	44.2	U	22.1	U	44.2	U	22.1	U	22.1	U
NA-E11-C-EW-DUP10		09-Mar-2010	52.4	U	52.4	U	52.4	U	26.2	U	52.4	U	26.2	U	26.2	U
Excavation Area 12																
NA-E12-A-NW	0-2	19-Jan-2010	41.8	U	41.8	U	41.8	U	**11.5**	**J**	**46.1**		**4.61**	**J**	**5.66**	**J**
NA-E12-A-WW	0-2	19-Jan-2010	**27.3**		**13**	**J**	**22.5**	**J**	**51**		**142**		**104**		**13.8**	
NA-E12-A-WWF(2.5-3.0)	2.5-3	09-Mar-2010	47.4	U	47.4	U	47.4	U	23.7	U	**18.9**	**J**	23.7	U	23.7	U
NA-E12-A-WWF(3.0-3.5)	3-3.5	09-Mar-2010	45.5	U	45.5	U	45.5	U	22.8	U	45.5	U	22.8	U	22.8	U
NA-E12-A-F	2	19-Jan-2010	**1.32**	**J**	**1.44**	**J**	4.79	U	**1.68**	**J**	**19.2**		**6.23**		**0.58**	**J**
NA-E12-A-WW10(0-2)	0-2	05-Mar-2010	47.5	U	47.5	U	47.5	U	23.8	U	47.5	U	23.8	U	23.8	U
NA-E12-A-WW15(0-2)	0-2	05-Mar-2010	47.6	U	47.6	U	47.6	U	23.8	U	47.6	U	23.8	U	23.8	U
NA-E12-A-WW5(0-2)	0-2	05-Mar-2010	47.4	U	47.4	U	47.4	U	**35**		**157**		**15.7**	**J**	**20.1**	**J**
NA-E12-A-WW-D		05-Mar-2010	47.3	U	47.3	U	47.3	U	23.6	U	47.3	U	23.6	U	23.6	U
NA-E12-A-WW-DUP8		09-Mar-2010	51	U	51	U	51	U	25.5	U	**20**	**J**	25.5	U	25.5	U
NA-E12-A-WWF-DUP9		09-Mar-2010	46.1	U	46.1	U	46.1	U	23	U	**9.04**	**J**	23	U	23	U
NA-E12-B-NW	0-2	19-Jan-2010	**43.2**	**J**	**65.3**		**66.2**		**29.6**		**211**		**13**	**J**	**11**	**J**
NA-E12-B-EW	0-2	19-Jan-2010	**197**		**79.2**		**30.7**	**J**	**116**		**175**		**258**		**51.9**	
NA-E12-B-EWF(2.5-3.0)	2.5-3	09-Mar-2010	52.9	U	52.9	U	**13.3**	**J**	26.4	U	52.9	U	26.4	U	26.4	U
NA-E12-B-EWF(3.0-3.5)	3-3.5	09-Mar-2010	**1240**		**389**		**107**		**70.4**		**650**		**131**		**27.3**	**J**
NA-E12-B-EW5(0-2)	0-2	09-Mar-2010	46.5	U	46.5	U	46.5	U	23.2	U	46.5	U	23.2	U	23.2	U
NA-E12-B-EW5(3.5-4.0)	3.5-4.0	20-Apr-2010	2260	U	2260	U	2260	U	**42,000**		**12,500**		**3,180**		**1810**	
NA-E12-B-EW5(4.0-4.5)	4.0-4.5	20-Apr-2010	91.1	U	91.1	U	91.1	U	**12.6**	**J**	**18.3**	**J**	45.5	U	45.5	U
NA-E12-B-EW10(0-2)	0-2	09-Mar-2010	**49.6**	**J**	**34**	**J**	242	U	**40.4**	**J**	**1530**		121	U	121	U
NA-E12-B-EW10(3.5-4.0)	3.5-4.0	20-Apr-2010	92	U	92	U	92	U	46	U	**15**	**J**	46	U	46	U
NA-E12-B-EW10(4.0-4.5)	4.0-4.5	20-Apr-2010	92	U	92	U	92	U	46	U	92	U	46	U	46	U
NA-E12-B-EW15(0-2)	0-2	09-Mar-2010	**17.8**	**J**	**11.1**	**J**	93.5	U	**24.5**	**J**	**515**		**27.2**	**J**	**9.99**	**J**
NA-E12-B-EW15(3.5-4.0)	3.5-4.0	20-Apr-2010	93.3	U	93.3	U	93.3	U	46.7	U	**28**	**J**	46.7	U	46.7	U
NA-E12-B-EW15(4.0-4.5)	4.0-4.5	20-Apr-2010	96.3	U	96.3	U	96.3	U	48.2	U	**16.9**	**J**	48.2	U	48.2	U
NA-E12-B-EW20(2.5-3.0)	2.5-3.0	20-Apr-2010	93.2	U	93.2	U	93.2	U	46.6	U	**23.3**	**J**	46.6	U	46.6	U
NA-E12-B-EW20(3.0-3.5)	3.0-3.5	20-Apr-2010	94.3	U	94.3	U	94.3	U	47.1	U	94.3	U	47.1	U	47.1	U
NA-E12-B-EW25(2.5-3.0)	2.5-3.0	20-Apr-2010	94.6	U	94.6	U	94.6	U	47.3	U	**20.2**	**J**	47.3	U	47.3	U
NA-E12-B-EW25(3.0-3.5)	3.0-3.5	20-Apr-2010	96.2	U	96.2	U	96.2	U	48.1	U	**15.7**	**J**	48.1	U	48.1	U
NA-E12-B-EW-DUP3		09-Mar-2010	46.3	U	46.3	U	46.3	U	23.1	U	**21.6**	**J**	23.1	U	23.1	U
NA-E12-B-EW-DUP4		09-Mar-2010	**65.8**	**J**	**32.7**	**J**	**11.7**	**J**	**29.8**	**J**	**612**		**18.7**	**J**	**11.8**	**J**
NA-E12-B-EW-DUP5		09-Mar-2010	**10.5**	**J**	90.4	U	90.4	U	**19.4**	**J**	**507**		**20.8**	**J**	**8.97**	**J**
NA-E12-B-EWF-DUP6		09-Mar-2010	46.8	U	46.8	U	46.8	U	23.4	U	46.8	U	23.4	U	23.4	U
NA-E12-B-EWF-DUP7		09-Mar-2010	**945**		**341**		**124**	**J**	**59.3**	**J**	**1150**		**108**	**J**	132	U
NA-E12-B-F	2	19-Jan-2010	**652**		**122**		**49.4**		**96.3**		**382**		**135**		**22.8**	**J**
NA-E12-B-F(2.5-3.0)	2.5-3	04-Mar-2010	48.5	U	48.5	U	48.5	U	24.3	U	48.5	U	24.3	U	24.3	U
NA-E12-B-F(3.0-3.5)	3-3.5	04-Mar-2010	48.7	U	48.7	U	48.7	U	24.3	U	48.7	U	24.3	U	24.3	U
NA-E12-C-SW	0-2	19-Jan-2010	4.56	U	**1.39**	**J**	4.56	U	**1.56**	**J**	**13.1**		**2.08**	**J**	**1.59**	**J**
NA-E12-C-WW	0-2	19-Jan-2010	4.6	U	**1.02**	**J**	4.6	U	**0.884**	**J**	**8.16**		**1.26**	**J**	**0.926**	**J**
NA-E12-C-F	2	19-Jan-2010	**0.716**	**J**	5.06	U	5.06	U	2.53	U	**2.51**	**J**	2.53	U	2.53	U
NA-E12-D-EW	0-2	19-Jan-2010	**40.5**		**62.4**		**35.5**		**7.1**	**J**	**83.3**		**6.24**	**J**	**2.49**	**J**
NA-E12-D-SW	0-2	19-Jan-2010	23.2	U	23.2	U	23.2	U	**12.8**		**139**		**15.1**		**3.21**	**J**
NA-E12-D-F	2	19-Jan-2010	4.89	U	4.89	U	4.89	U	2.44	U	**1.96**	**J**	2.44	U	2.44	U
Excavation Area 13																
NA-E13-A-NW	0-2	19-Jan-2010	4.74	U	4.74	U	4.74	U	**0.728**	**J**	**9.43**		2.37	U	**1.55**	**J**
NA-E13-A-WW	0-2	19-Jan-2010	23.5	U	**6.88**	**J**	**15.4**	**J**	**9.85**	**J**	**78.3**		**2.97**	**J**	**9.61**	**J**
NA-E13-A-F	2	19-Jan-2010	**12.1**	**J**	**15.7**	**J**	**13.6**	**J**	**18**	**J**	**210**		**9.65**	**J**	**6.51**	**J**
NA-E13-B-EW	0-2	20-Jan-2010	**366**		**933**		**1690**		124	U	**123**	**J**	124	U	124	U
NA-E13-B-NW	0-2	20-Jan-2010	4.43	U	**0.776**	**J**	**1.58**	**J**	**3.26**		**8.89**		2.21	U	2.21	U
NA-E13-B-F	2	20-Jan-2010	4.41	U	**2.56**	**J**	**1.67**	**J**	**1.02**	**J**	**17.8**		**0.834**	**J**	**0.581**	**J**
NA-E13-C-SW	0-2	20-Jan-2010	86.5	U	**17.5**	**J**	**27.4**	**J**	**25.2**	**J**	**318**		**18.6**	**J**	**13.1**	**J**
NA-E13-C-WW	0-2	20-Jan-2010	**4.46**	**J**	**8.45**	**J**	**23.2**		**15**		**60.2**		**6.22**	**J**	**5.53**	**J**
NA-E13-C-F	2	20-Jan-2010	113	U	113	U	113	U	**16**	**J**	**422**		56.4	U	56.4	U
NA-E13-D-EW	0-2	20-Jan-2010	23.4	U	**6.06**	**J**	**17.8**	**J**	**16.6**		**53.5**		**5.47**	**J**	**4.87**	**J**
NA-E13-D-SW	0-2	20-Jan-2010	**31**	**J**	**35.5**	**J**	**13.8**	**J**	22.8	U	**43.7**	**J**	22.8	U	22.8	U
NA-E13-D-F	2	20-Jan-2010	**19.4**	**J**	**13.8**	**J**	**61.2**		**6.91**	**J**	**97.9**		11.4	U	11.4	U
Other																

Table 2-1: GPA, Bainbridge Terminal, Bainbridge GA,
Soil Pesticide Data Summary Concerning RRS Constituents - Northern Area Excavation Confirmatory Sample Data

Sample Identification	Sample Depth (ft)	Sample Date	4,4'DDD	Flags	4,4'DDE	Flags	4,4'-DDT	Flags	alpha-BHC	Flags	beta-BHC	Flags	delta-BHC	Flags	gamma-BHC (Lindane)	Flags
Site-Specific RRS Values (µg/kg)			***11,000***		***7,700***		***11,000***		***660***		***3,100***		***100***		***12,000***	
NA-EB01	NA	17-Dec-2009	0.102	U	0.102	U	0.102	U	0.051	U	0.051	U	0.051	U	0.051	U
EB-1	NA	22-Dec-2009	0.103	U	**0.0047**	**J**	**0.033**	**J**	**0.044**	**J**	**0.077**		**0.015**	**J**	0.052	U
EX10SW	0-2	21-Dec-2009	**0.025**	**J**	0.51	U	0.51	U	**2.03**		**4.31**		**0.88**		**0.3**	

Notes:

124 Sample concentration is above RRS

4.46 Sample is above quatitation limits but below RRS

Analytical data for each excavation area was derived from Table 3-2 of CH2MHILL's report titled "Removal Action Completion Report Revision 3" (RACR Rev. 3) in January of 2011 as well as through e-mail correspondence with GPA on August 27, 2014.

Table 3-1: Well Gauging Data for March 2014 Monitoring Event

Well ID # (Well Diameter, in.)	TOC Elevation	DTW	Groundwater Surface Elevation	Notes
	ft.	ft.	ft.	
MW-1 (2)	105.24	26.45	78.79	
MW-1A (2)	105.36	25.45	79.91	
MW-2 (2)	99.70	19.03	80.67	
MW-3 * (2)	97.13	17.43	79.70	
MW-4U (2)	103.54	23.70	79.84	
MW-5A (2)	96.48	17.29	79.19	
MW-5D (2)	95.93	16.76	79.17	samples had black particles suspended in purge water
MW-6 (2)	102.06	22.66	79.40	gauged from high side of TOC, collected matrix spike
MW-7 (2)	98.16	18.09	80.07	initial water purged was turbid, tried 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	14.34	79.05	bailed ~1 inch of water from vault prior to gauging
MW-9 ** (2)	NA	NA	NA	
MW-10 * (2)	100.02	19.90	80.12	duplicate sample taken
MW-11 (2)	100.92	20.77	80.15	Horiba battery died @ 7:40, replaced battery and parameter monitoring continued
MW-12 (2)	93.89	15.55	78.34	1" of standing water in well vault still not above TOC, bailed water before gauging
MW-13 (2)	93.35	DRY	N/A	well is dry, no sample taken
MW-14 (2)	101.91	23.52	78.39	1/2" of water in well vault just below TOC
MW-15 (2)	98.03	18.86	79.17	well is dry, no sample taken
MW-16 * (2)	97.17	17.16	80.01	1 1/2" of water in vault, still below TOC, sampled with NTU > 10 because it kept rising steadily
MW-17 (2)	93.50	14.35	79.15	well is deformed ~1 ft below ground surface, water has tan/grey tint in cylinder, tan bacteria floating in samples when collected
MW-18 (2)	95.48	16.00	79.48	
MW-19 (2)	96.54	16.92	79.62	1 1/2" of water in well casing above cap, water bailed out prior to opening cap to gauge well, began raining heavily at 14:36
MW-20 * (2)	96.61	16.64	79.97	began raining heavily as samples were being taken
MW-21 * (2)	97.58	17.57	80.01	1/2" of water over TOC in well vault, bailed out water prior to opening well cap
MW-22 * (2)	98.90	18.92	79.98	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 3-2: Well Gauging Data for September 2014 Monitoring Event

Well ID # (Well Diameter, in.)	TOC Elevation	DTW	Groundwater Surface Elevation	Notes
	ft.	ft.	ft.	
MW-1 (2)	105.24	27.71	77.53	re-marked outer casing for identification
MW-1A (2)	105.36	27.83	77.53	DTB= 36.81'
MW-2 (2)	99.70	21.47	78.23	
MW-3 * (2)	97.13	19.84	77.29	pad cracked due to GPA clearing activities, well casing intact and only slightly moved
MW-4U (2)	103.54	25.96	77.58	re-marked gauging point on west side of well
MW-5A (2)	96.48	19.43	77.05	
MW-5D (2)	95.93	18.81	77.12	DTB= 22.26'
MW-6 (2)	102.06	24.86	77.20	
MW-7 (2)	98.16	20.52	77.64	
MW-8 (2)	93.39	16.32	77.07	
MW-9 ** (2)	NA	NA	NA	
MW-10 *[3] (2)	100.02	22.25	77.77	well vault lid initially not bolted in place
MW-11 (2)	100.92	23.29	77.63	
MW-12 (2)	93.89	17.26	76.63	
MW-13 (2)	93.35	16.97	76.38	DTB= 22.22'
MW-14 (2)	101.91	25.25	76.66	initial DTW back calculated from purge drawdown data
MW-15 *[3] (2)	98.03	20.76	77.27	DTB= 21.51'
MW-16 * (2)	97.17	19.44	77.73	water in vault ~1/4" above TOC, bailed out the water prior to sampling
MW-17 *[3] (2)	93.50	16.40	77.10	
MW-18 (2)	95.48	18.13	77.35	air under slight pressure flowed out of well upon removal of cap
MW-19 (2)	96.54	19.21	77.33	air under slight pressure flowed out of well upon removal of cap
MW-20 * (2)	96.61	19.00	77.61	
MW-21 * (2)	97.58	20.02	77.56	
MW-22 * (2)	98.90	21.31	77.59	
MW-23 *[3] (2)	93.63	16.58	77.05	

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 prior to purging

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

** Well Not Located

*[3] TOC elevation based on survey conducted by Donaldson, Garrett, & Associates, Inc. on 7/11/2014.

TOC = Top of Casing

DTW = Depth to Water below TOC NA = Not Applicable DRY = Groundwater level is below well screen, therefore no sample was taken

DTB = Depth to Bottom below TOC NM = Not Measured

Table 3-3: Chronological Groundwater Quality Field Parameters Summary

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	0.72	2.20	4.58
	3/25/2014	19.10	4.07	377.00	0.55	0.00	4.99
	9/4/2014	23.21	3.70	382.00	0.63	4.50	4.99
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
	3/25/2014	17.97	4.01	400.00	0.761	0.00	2.26
	9/4/2014	22.15	3.78	372.00	0.818	35.40	3.61
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
	3/25/2014	17.33	4.84	295.00	0.065	0.00	4.16
	9/3/2014	18.94	3.86	226.00	0.075	0.00	1.16
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
	3/25/2014	19.18	5.57	220.00	0.065	0.00	6.43
	9/4/2014	19.98	4.65	231.00	0.072	17.50	4.97
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
	3/25/2014	20.85	4.44	308.00	0.262	0.00	3.76
	9/4/2014	20.30	3.68	309.00	0.198	0.00	4.95
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
	3/26/2014	20.00	4.22	260.00	0.608	0.00	3.24
	9/5/2014	23.84	4.03	308.00	0.829	0.00	1.47
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
	3/26/2014	18.91	3.53	275.00	1.870	0.00	0.60
	9/3/2014	24.94	3.62	300.00	0.988	0.00	0.71

Table 3-3: Chronological Groundwater Quality Field Parameters Summary

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-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
	3/26/2014	21.58	5.80	61.00	1.760	15.20	0.71
	9/4/2014	22.84	5.70	65.00	1.870	86.00	0.66
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
	3/26/2014	18.95	3.91	284.00	0.541	0.00	1.63
	9/3/2014	24.29	3.45	304.00	0.926	0.00	1.47
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	0.64	0.00	1.31
	3/26/2014	18.72	3.93	274.00	0.734	1.10	3.57
	9/3/2014	27.23	3.41	311.00	0.730	0.00	1.29
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
	3/25/2014	NL	NL	NL	NL	NL	NL
	9/3/2014	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
	3/26/2014	20.16	3.88	320.00	0.823	0.00	1.71
	9/3/2014	23.99	3.63	288.00	0.911	0.00	1.43
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
	3/25/2014	18.20	4.19	351.00	0.190	6.70	5.06
	9/3/2014	20.20	3.30	300.00	0.182	0.00	4.85

Table 3-3: Chronological Groundwater Quality Field Parameters Summary

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-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
	3/26/2014	18.64	5.93	213.00	1.070	0.00	1.38
	9/2/2014	23.31	6.87	117.00	0.619	0.00	0.62
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
	3/26/2014	17.75	4.95	77.00	0.42	0.00	0.91
	9/2/2014	22.57	5.93	211.00	0.48	0.00	1.69
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
	3/25/2014	18.53	7.40	-146.00	0.267	5.80	0.66
	9/4/2014	22.27	7.51	-163.00	0.290	1.90	0.51
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
	3/26/2014	16.50	4.30	292.00	4.94	0.00	1.32
	9/3/2014	24.75	4.29	250.00	3.77	0.00	1.75
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
	3/26/2014	19.59	4.96	236.00	0.030	0.00	4.99
	9/3/2014	28.38	4.75	259.00	0.026	0.00	4.33
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
	3/27/2014	19.70	7.50	2.00	0.413	9.60	0.48
	9/2/2014	25.89	7.17	-118.00	0.401	11.10	0.40
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
	3/26/2014	21.36	6.79	124.00	1.880	0.80	1.36
	9/4/2014	25.62	6.27	221.00	1.910	0.80	0.60

Table 3-3: Chronological Groundwater Quality Field Parameters Summary

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-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
	3/25/2014	20.52	4.31	282.00	1.380	95.00	0.85
	9/3/2014	25.69	4.00	313.00	1.320	13.20	0.63
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
	3/27/2014	17.58	4.34	308.00	0.253	0.00	6.49
	9/5/2014	23.44	3.84	304.00	0.394	0.00	6.74
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
	3/27/2014	21.74	5.17	194.00	0.222	14.10	3.55
	9/5/2014	25.15	3.83	305.00	0.889	0.00	4.24
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
	3/27/2014	18.50	3.86	356.00	0.650	9.90	2.99
	9/5/2014	25.73	3.83	337.00	0.697	0.00	2.90
MW-23 (2)	7/8/2014	24.94	3.74	358.00	1.310	0.00	1.34
	9/2/2014	26.47	4.67	154.00	1.040	0.00	0.55

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 9/5/2014, 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 3-4: Groundwater Pesticides Data Summary

	Test 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	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	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	4/15/2008	0.010	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	0.051	U	0.51	U
	8/5/2009	**0.095**		**0.113**		0.051	U	**0.065**		0.051	U	0.051	U	0.051	U	**0.00462**	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
	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	0.102	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00722	U	0.00742	U	0.00722	U	0.01320	U	0.0105	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
	3/25/2014	0.003	U	0.00232	U	0.00131	U	0.00169	U	0.00551	U	0.00323	U	0.00142	U	0.00099	U	0.001500	U	0.00598	U	0.00144	U	0.00175	U	0.00298	U	0.00115	U	0.03430	U	0.00176	U	0.00341	U	0.00484	U	0.00326	U	0.00141	U	0.0762	U
	9/4/2014	0.0343	J	**0.231**		0.002	U	0.0362	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	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
MW-1A	9/1/2001	0.100	U	0.1	U	**0.1**	U	0.1	U		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/15/2008	0.010	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	0.051	U	0.051	U	0.51	U
	8/5/2009	**0.092**		**0.158**		0.051	U	**0.063**		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
	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00711	U	0.00731	U	0.00711	U	0.01300	U	0.0104	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
	3/25/2014	0.003	U	0.00237	U	0.00134	U	0.00173	U	0.00562	U	0.00329	U	0.00145	U	0.00101	U	0.001530	U	0.0061	U	0.00147	U	0.00179	U	0.00304	U	0.00117	U	0.03500	U	0.0018	U	0.00347	U	0.00494	U	0.00333	U	0.00144	U	0.0777	U
	9/4/2014	0.0234	J	**0.161**		0.0046	J	0.0213	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
MW-2	4/16/2008	0.010	U	0.0099	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	0.51	U
	7/14/2011	0.050	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00711	U	0.00731	U	0.00711	U	0.01300	U	0.0104	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	0.01040	U	0.0107	U	0.00822	U	0.00711	U	0.00822	U	0.00731	U	0.00508	U
	3/25/2014	0.003	U	0.00231	U	0.00131	U	0.00168	U	0.00548	U	0.00321	U	0.00142	U	0.00099	U	0.001490	U	0.00595	U	0.00143	U	0.00175	U	0.00269	U	0.00115	U	0.03420	U	0.00176	U	0.00339	U	0.00482	U	0.00324	U	0.00141	U	0.0758	NL
	9/3/2014	0.0101	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
MW-3	3/28/2013		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NS
	6/3/2013		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		U
	9/5/2013	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.009	U	0.00824	U	0.00847	U	0.00824	U	0.01510	U	0.012	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
	3/25/2014	0.003	U	0.00235	U	0.00133	U	0.00171	U	0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.001510	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/4/2014	0.0101	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	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
MW-4U	9/1/2001	0.100	U	0.1	U	**0.1**	U	0.1	U		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		U
	4/15/2008	0.010	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.52	U
	8/5/2009	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.101	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	U
	3/28/2013	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00788	U	0.008	U	0.00778	U	0.01420	U	0.0113	U	0.00922	U	0.00878	U	0.00050	U	0.009	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
	3/25/2014	0.003	U	0.00235	U	0.00133	U	0.00171	U	0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	U
	9/4/2014	0.0101	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	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
MW-5A	4/16/2008	**0.120**		**2.4**		**0.63**		0.04	J	0.051	U	0.023	J	0.051	U	0.051	U	**2.7**		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	**0.14**		0.51	U
	8/4/2009	**0.510**	J	**18**		**2.2**		0.155	J	1.01	U	**1.01**	U	1.01	U	1.01	U	**1.70**	U	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	1.01	U	**0.340**	J	101	U
	7/15/2011	**0.130**		**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	0.430	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	**0.100**		**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	0.010	U	**0.389**		0.002	U	0.0016	U	0.00290	U	0.0286	J	**0.236**		0.00240	U	**2.75**	D	0.0035	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	0.009	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
	3/26/2014	**0.239**		0.00232	U	**0.668**		**0.24**		0.00551	U	0.0747	U	0.00142	U	0.00099	U	0.0015	U	0.00598	U	0.00144	U	0.00175	U	0.00298	U	0.00115	U	0.03430	U	0.00176	U	0.00341	U	0.00484	U	0.00326	U	0.244	U	0.0762	NM
	9/5/2014	**0.322**		**7.47**	D	**1.01**	D	**0.298**		0.00290	U	**0.0787**		0.00280	U	0.00240	U	1.99	D	0.0035	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	0.235		0.423	U
MW-5D	7/1/2001	**1.000**		**8.7**		**3.7**			NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		U
	4/15/2008	**0.190**		**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	**1.180**	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	**0.500**	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	**0.660**		**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	**0.720**		**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	0.0098	U	0.0049	U	0.0049	U	0.0098	U	0.98	U
	3/26/2013	0.002	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	0.010	U	**0.12**		0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.012	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
	3/26/2014	0.003	U	0.00232	U	0.00131	U	0.00169	U	0.00551	U	0.00323	U	0.00141	U	0.00099	U	0.002	U	0.00598	U	0.00144	U	0.00175	U	0.00298	U	0.00115	U	0.03430	U	0.00176	U	0.00341	U	0.00484	U	0.00326	U	0.00141	U	0.0762	NM
	9/3/2014	**0.352**		**18.2**	D	**1.93**	J	**0.383**		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.360		0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.00285	U	0.00851	U	0.00178	U	0.00218	U	0.0541	J	0.419	U

Table 3-4: Groundwater Pesticides Data Summary

Test 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		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		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-6	9/1/2001	1.840		1.39		2.22		0.31			NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/1/2002	1.200		1		3.6		0.11			NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	U
	4/14/2008	1.700		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
	8/4/2009	2.360		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	2.500		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	1.400		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	1.400	*	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	0.0098	U	0.0049	U	0.0049	U	0.0098	U	0.98	U
	3/26/2013	1.290		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	1.230		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	1.510	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	0.0035	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	1.680		1.67		2.71	DX	**0.035**		0.0142	U	0.0113	U	0.00922	U	0.00878	U	**0.000522**	J	0.009	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	0.008	U	0.00556	U
	3/26/2014	0.797		1.16		1.98		0.00173	U	0.00562	U	0.00329	U	0.00145	U	0.00101	U	0.00153	U	0.0061	U	0.00147	U	0.00179	U	0.00304	U	0.00117	U	0.03500	U	0.0018	U	0.00347	U	0.00494	U	0.00333	U	0.00144	U	0.0777	NM
	9/8/2014	0.907	D	1.15	D	1.81	D	0.00158	U	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
MW-7	9/1/2001	20.510		3.23		1.35		2.66			NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	6/1/2002	4.300		1.2		1		1.3			NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	U
	4/14/2008	0.580		0.4		0.021	J	0.032	J	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.52	U
	8/5/2009	0.137		0.564		0.051	U	**0.129**		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	0.051	U	**0.00823**	J	0.101	U	5.05	U
	3/27/2013	0.030	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	0.002	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	0.061		0.365		0.002	U	0.0332	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.023		0.31		0.0126	J	**0.0487**		0.01420	U	0.0113	U	0.00922	U	0.00878	U	**0.00184**	J	0.009	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	0.008	U	0.00556	U
	3/26/2014	0.018		0.264		0.00133	U	**0.034**		0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/3/2014	0.0364	J	0.409		0.00198	U	**0.0660**		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
MW-8	9/2/2001	0.100	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	U
	4/15/2008	0.310		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	**0.210**		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	0.0049	U	0.0097	U	0.97	U
	3/26/2013	0.032	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	0.0026	U	0.00280	U	0.00240	U	**0.00961**	J	0.0035	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	0.0113	U	0.00922	U	0.00878	U	**0.0101**	J	0.009	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	0.008	U	0.00556	U
	3/26/2014	**0.061**		0.829		0.0899		**0.0392**		0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/8/2014	**0.179**		1.31	D	0.272		**0.145**		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.0148	J	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
MW-9	9/1/2001	0.770		5.01		0.82		0.42			NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	NL
	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
	3/25/2014		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL	NL
	9/4/2014		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL	NL
MW-10	4/1/2002	1.900		9		3.7		0.86			NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	U
	6/3/2002	1.500	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	2.000		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	1.450		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	1.200		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	1.360		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	0.710		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	0.0095	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		8.6	D	0.511		**0.307**		**0.346**		0.0026	U	0.00280	U	0.00240	U	**0.00961**	J	0.0035	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**		0.064	U	0.051	U	0.04150	U	0.03950	U	**0.00725**	J	0.0405	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	0.025	U
	3/26/2014	**0.315**		0.00235	U	0.289		**0.147**		0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/3/2014	**0.443**		7.62	D	0.489		**0.189**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
MW-11	4/1/2002	0.100	U	0.1	U	0.1	U	0.1	U		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	U
	4/16/2008	0.010	U	0.024	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	0.51	U
	7/14/2011	0.050	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00714	U	0.00735	U	0.00714	U	0.01310	U	0.0104	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	0.0051	U
	3/25/2014	0.003	U	**0.027**		0.00133	U	0.00171	U	0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.001510	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/3/2014	0.0101	U	0.0181	J	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
MW-12	4/1/2002	**0.390**		1.3		0.43		**0.18**			NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	NM
	6/1/2002	**0.400**		1.4		0.3		**0.1**			NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	U
	4/15/2008	**0.034**		0.44		0.022	J	0.024	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	0.51	U
	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	**0.750**		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	**0.710**		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	0.0049	U	0.0097	U	0.97	U
	3/26/2013	0.002	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	0.015	J	**0.847**		0.002	U	0.00783	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.077	U	**0.601**		0.075	U	0.0729	U	0.13300	U	0.106	U	0.08650	U	0.08230	U	0.00469	U	0.0844	U	0.11800	U	0.09380	U	0.08650	U	0.10100	U	0.11700	U	0.109	U	0.08440	U	0.07290	U	0.08440	U	0.07500	U	0.0521	U
	3/26/2014	**0.010**		**0.539**		**0.00532**		**0.0138**		0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/2/2014	0.0227	J	**0.660**		0.0093	J	0.0107	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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

Table 3-4: Groundwater Pesticides Data Summary

Test 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		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		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-13	4/1/2002	**0.260**		8		0.6		**0.16**			NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	6/1/2002	**0.400**		11		1.4		**0.5**			NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		U	
	4/14/2008	**0.059**		9		0.12		0.045	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	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.5	U		
	8/4/2009	**0.120**	J	11		0.63	J	1.01	U	1.01	U	**1.01**	U	1.01	U	1.01	U	2.02	U	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	1.01000	U	2.02	U	101	U		
	3/27/2013	0.002	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	DRY		
	6/5/2013		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		U	
	9/5/2013	**0.052**		6.36	D	0.0849		0.0307	J	**0.454**		0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	DRY		
	12/4/2013		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		U	
	3/26/2014	**0.022**		4		**0.032**		**0.0571**		0.0107	U	0.00627	U	0.00276	U	0.00193	U	0.00290	U	0.0116	U	0.00280	U	0.00193	U	0.00579	U	0.00224	U	0.06670	U	0.00343	U	0.00661	U	0.00941	U	0.00633	U	0.00274	U	0.148	U		
	9/2/2014	0.0319	J	3.87	D	**0.0782**		**0.0517**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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		
MW-14	4/10/2003	**0.200**		**0.1**		0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.5	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		NM		NM		NM	2.0	U		
	4/14/2008	0.010	U	**0.18**		0.004	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	0.51	U		
	8/4/2009	0.051	U	0.028	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	0.102	U	0.102	U	0.102	U	0.102	U	0.510	U	0.102	U	0.051	U	0.051	U	0.102	U	5.10	U		
	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	5.10	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.076	U	0.0718	U	0.0738	U	0.0718	U	0.13100	U	0.105	U	0.08510	U	0.08100	U	0.00462	U	0.0831	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		
	3/25/2014	0.003	U	**0.243**		0.00134	U	**0.00702**		0.00562	U	0.00329	U	0.00145	U	0.00101	U	0.00153	U	0.0061	U	0.00147	U	0.00179	U	0.00304	U	0.00117	U	0.03500	U	0.0018	U	0.00347	U	0.00494	U	0.00333	U	0.00144	U	0.0777	U		
	9/4/2014	0.0101	U	0.311		0.002	U	0.0025	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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		
MW-15	4/10/2003	**6.800**		**1.1**		**0.7**		**1.3**		0.1	U	0.1	U	0.1	U	0.5	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		NM		NM		NM	2.0	U		
	4/16/2008	**0.058**		**0.37**		0.007	J	0.042	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	0.51	U		
	8/5/2009	**0.103**		**0.565**		0.01	J	**0.067**		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	0.051	U	0.051	U	0.101	U	5.05	U		
	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	**0.080**		**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	DRY		
	6/5/2013		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		U	
	9/4/2013	**0.057**		**0.221**		0.002	U	0.0245	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	DRY		
	12/3/2013		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		U	
	3/26/2014	**0.041**		**0.317**		0.00135	U	**0.0458**		0.00568	U	0.00333	U	0.00147	U	0.00102	U	0.00154	U	0.00616	U	0.00149	U	0.00181	U	0.00307	U	0.00119	U	0.03540	U	0.00182	U	0.00351	U	0.00499	U	0.00336	U	0.00146	U	0.0785	U		
	9/5/2014	**0.139**		**0.587**		0.0174	J	**0.0865**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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		
MW-16	4/10/2003	**11.400**		**0.9**		**0.9**		**2.3**		0.1	U	0.1	U	0.1	U	0.5	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		NM		NM		NM	2.0	U		
	4/16/2008	0.010	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	0.051	U	0.051	U	0.51	U		
	8/5/2009	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.101	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		
	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.076	U	0.0722	U	0.0742	U	0.0722	U	0.13200	U	0.105	U	0.08560	U	0.08140	U	0.00464	U	0.0835	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		
	3/26/2014	0.031	U	0.0235	U	0.0133	U	0.0489	U	0.05560	U	0.0326	U	0.01440	U	0.01000	U	0.01510	U	0.0604	U	0.01460	U	0.01770	U	0.03010	U	0.01160	U	0.34700	U	0.0178	U	0.03440	U	0.04890	U	0.03290	U	0.01430	U	0.769	U		
	9/3/2014	0.0101	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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		
MW-17	4/16/2008	0.010	U	**0.25**		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	0.051	U	**0.51**	U		
	8/4/2009	0.017	J	**0.37**		0.36		0.011	J	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		
	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	0.010	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	0.002	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	0.002	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	0.010	U	**0.39**		0.0162	J	0.00748	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.077	U	**0.264**		0.0746	U	0.0725	U	0.13300	U	0.106	U	0.08600	U	0.08190	U	0.00466	U	0.0839	U	0.11700	U	0.09330	U	0.08600	U	0.10100	U	0.11600	U	0.109	U	0.08390	U	0.07250	U	0.08390	U	0.07460	U	0.0518	U		
	3/27/2014	0.031	U	**0.159**		0.0133	U	0.0171	U	0.05560	U	0.0326	U	0.01440	U	0.01000	U	0.01510	U	0.0604	U	0.01460	U	0.01770	U	0.03010	U	0.01160	U	0.34700	U	0.0178	U	0.03440	U	0.04890	U	0.03290	U	0.01430	U	0.769	U		
	9/2/2014	0.010	U	**0.218**		0.0105	J	0.00287	J	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U		
MW-18	8/6/2009	0.051	U	**0.375**		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	0.051	U	0.051	U	0.101	U	5.05	U		
	7/15/2011	0.050	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	**0.025**	J	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		
	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	0.002	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	0.010	U	0.409	J	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	**0.00680**	J	0.0035	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	0.076	U	**0.463**		0.0742	U	0.0722	U	0.13200	U	0.105	U	0.08560	U	0.08140	U	0.00464	U	0.0835	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		
	3/26/2014	0.030	U	**0.356**		0.0127	U	0.0164	U	0.05350	U	0.0313	U	0.01380	U	0.00963	U	0.01450	U	0.0581	U	0.01400	U	0.01700	U	0.02890	U	0.01120	U	0.33300	U	0.0171	U	0.03310	U	0.04700	U	0.48100	U	0.01370	U	0.74	U		
	9/4/2014	0.010	U	**0.102**		0.00198	U	0.00327	J	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.004260	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	UX	0.00218	U	0.00446	U	0.419	U		
MW-19	8/6/2009	0.009	J	**0.113**		0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	**0.012**	J	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		
	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.076	U	0.0718	U	0.0738	U	0.0718	U	0.13100	U	0.105	U	0.08510	U	0.08100	U	0.00462	U	0.0831	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		
	3/27/2014	0.003	U	**0.074**		0.0013	U	**0.0109**		0.00545	U	0.0032	U	0.00141	U	0.00098	U	0.00148	U	0.00592	U	0.00143	U	0.00174	U	0.00295	U	0.00114	U	0.03400	U	0.00175	U	0.00337	U	0.00480	U	0.00323	U	0.00140	U	0.0754	U		
	9/4/2014	0.010	U	**0.0762**		0.00515	J	0.00891	J	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.004260	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	..00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U		

Table 3-4: Groundwater Pesticides Data Summary

Test 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		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		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	8/6/2009	**2.500**	U	**25.7**		**2.5**	U	2.5	U	2.5	U	**2.5**	U	2.5	U	2.5	U	5.00	U	5	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00	U	25	U	5.00	U	2.5	U	2.5	U	5.00	U	250	U
	7/12/2011	0.460	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	0.005	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	0.010	U	**2.21**	D	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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**		**0.148**	U	0.144	U	0.26400	U	**0.21**	U	0.17100	U	0.16300	U	**0.01880**	J	0.167	U	0.23300	U	0.18600	U	0.17100	U	0.20000	U	0.23100	U	0.216	U	0.16700	U	0.14400	U	0.16700	U	0.14800	U	0.103	U
	3/27/2014	0.031	U	**2.64**		**0.0229**		0.0169	U	0.05510	U	0.0323	U	0.01420	U	0.00991	U	0.01500	U	0.0598	U	0.01440	U	0.01750	U	0.02980	U	0.01150	U	0.34300	U	0.0176	U	0.03410	U	0.04840	U	0.03260	U	0.01410	U	0.762	U
	9/3/2014	**0.0803**		**12.4**	D	**0.469**		**0.074**		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.004260	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
MW-21	8/6/2009	**0.576**		**7.46**		**0.5**	U	0.35	J	0.5	U	**0.5**	U	0.5	U	0.5	U	1.0	U	1	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	1.00	U	0.5	U	0.5	U	1.00	U	50	U
	7/12/2011	0.210	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	**0.130**		**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	0.002	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	0.002	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	0.010	U	**0.286**		0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.076	U	**2.53**		0.0742	U	0.0722	U	0.13200	U	0.105	U	0.08560	U	0.08140	U	0.00464	U	0.0835	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
	3/27/2014	0.031	U	**0.856**		0.0133	U	0.0171	U	0.05560	U	0.0326	U	0.01440	U	0.01000	U	0.01510	U	0.0604	U	0.01460	U	0.01770	U	0.03010	U	0.01160	U	0.34700	U	0.0178	U	0.03440	U	0.04890	U	0.03290	U	0.01430	U	0.769	U
	9/5/2014	**0.359**		**5.52**	D	**0.574**		**0.280**		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
MW-22	4/5/2012	**1.520**	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	
	11/20/2012	**1.300**	*	**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	0.0098	U	0.0049	U	0.0049	U	0.0098	U	**3.7**	U
	3/27/2013	**1.090**		**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	**1.100**	D	**33.7**	DX	**0.725**		**0.382**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	**0.0521**	J	0.0035	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**		**0.489**		0.2610	U	**0.208**	U	0.1690	U	0.1610	U	**0.03040**	J	0.165	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
	3/27/2014	**0.284**		**14.3**		**0.212**		**0.166**		0.0535	U	0.0313	U	0.0138	U	0.0096	U	0.01450	U	0.0581	U	0.0140	U	0.0170	U	0.0289	U	0.0112	U	0.3330	U	0.0171	U	0.0331	U	0.0470	U	0.0317	U	0.0137	U	0.7400	
	9/5/2014*[4]	**1.01**	D	**37.098**	D	**22.4**	D	**0.365**		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
MW-23	9/5/2014	0.0227	J	**5.17**	D	0.0174	J	**0.0517**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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

Sources: Analytical results from March 2013 to March 2014 are from samples directly collected by EIC. Historical data prior to March 2013 from CH2MHill 2008, 2009, and 2012 Groundwater Reports and Law Engineering 2001-2003 Compliance Status Reports and Addendums

Notes:

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

In response to EPD's comment letter on July 2, 2014 to GPA, item number 5 (EPD 2014), EIC has researched and added historical data for MW-13

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 limit.
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 laboratory QC deficiency was observed 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 correlation.
*[4] = Result for beta-BHC was adjusted based on tubing rinsate sample, see Xenco lab report number 49280

Table 4-1: Well Repairs Summary

Well ID	Type	Previous Well Issues	Tasks Completed
MW-1	Stick-up	Missing padlock for outer casing. Hinges on outer casing cap rusted. Well locking cap degraded and could not be tightened.	Installed new locking compression cap and new weather-resistant padlock on cap. Outer casing cap repaired.
MW-1A	Stick-up	Missinng pad lock for outer casing.	Installed new locking compression cap on outer casing.
MW-2	Stick-up	Missing padlock for outer casing. Locking cap was loose.	Installed new locking compression cap on outer casing.
MW-3	Stick-up	Missing padlock for outer casing	
MW-4U	Stick-up	Missing padlock for outer casing. Padlock on well cap missing key.	Cut old lock off locking cap and replaced it.
MW-5A	Flush-to-Grade	None	N/A
MW-5D	Flush-to-Grade	Concrete pad was damaged and heavily cracked. Well vault dislodged from concrete, well locking cap was damaged. The well casing was in good condition.	Installed new concrete pad, well vault, locking well cap, and padlock. New well vault has 3 Teflon washers, 3 weather-resistant metal washers, 3 stainless steel bolts, and new vault lid O-ring.
MW-6	Flush-to-Grade	Missing one vault bolt.	Installed new O-ring, padlock, and one stainless steel vault bolt. New vault bolt was installed with 1 Teflon and 1 weather-resistant metal washer.
MW-7	Flush-to-Grade	Well locking cap was loose.	Installed 2 new stainless steel bolts, 2 new Teflon washers, new locking well cap, and new padlock.
MW-8	Flush-to-Grade	Vault lid was rusted and missing all bolts. Bolt threading was corroded.	Installed new well vault and concrete pad. New well vault includes 3 stainless steel bolts, 3 stainless steel/neoprene washers, 3 weather-resistant metal washers, and 1 new O-ring. Installed new locking compression cap.
MW-9	N.L.	Not located.	Not Applicable
MW-10	Flush-to-Grade	Concrete pad shifted against well casing. Part of PVC casing broken off	Installed new well vault and concrete pad. New well vault includes 3 stainless steel bolts, 3 Teflon washers, 3 weather-resistant metal washers, and 1 new O-ring. Installed new locking compression cap.
MW-11	Flush-to-Grade	O-ring degraded.	Installed new O-ring, and 3 Teflon washers.
MW-12	Flush-to-Grade	Vault lid rusted and missing all bolts. Vault flange damaged	Installed new well vault and concrete pad. New well vault includes 3 stainless steel bolts, 3 stainless steel/neoprene washers, 3 weather-resistant metal washers, and 1 new O-ring. Installed new locking compression cap.
MW-13	Flush-to-Grade	Approximately 6 feet of silt build-up in well.	Removed ~6 feet of silt buildup. Installed 1 new Teflon and 1 weather-resistant metal washer.
MW-14	Flush-to-Grade	Vault lid missing 2 bolts	Installed two new stainless steel bolts and three new teflon and weather resistant metal washers. Installed new padlock.
MW-15	Flush-to-Grade	Well concrete pad and vault were destroyed. PVC casing extended approximately 1/2 inch above the ground surface and was deformed. Locking well cap was missing. Grass and particles observed in well casing. Approximately 3 feet of silt build-up in well.	Removed ~ 1.5 feet of silt build-up. Installed new concrete pad and well vault. New well vault was installed. Cut ~7 inches of deformed pvc casing off and coupled ~7 inches of new pvc casing onto undamaged casing.
MW-16	Flush-to-Grade	Locking cap damaged.	Installed 3 new bolts, Teflon washers, and weather-resistant metal washers. Could not replace locking cap due to height restrictions

Table 4-1: Well Repairs Summary

Well ID	Type	Previous Well Issues	Tasks Completed
MW-17	Flush-to-Grade	Vault lid missing all bolts. Top ~1 foot of pvc well casing was crossthreaded and deformed.	Repaired well casing and installed 3 new stainless steel bolts, Teflon washers, and weather-resistant metal washers. Cleaned O-ring.
MW-18	Flush-to-Grade	Vault lid missing all bolts. Bolts corroded.	Installed new locking cap. Non standard bolts prevented replacement. Applied epoxy sealant in vault lid bolt holes to minimize surface water entering vault.
MW-19	Flush-to-Grade	Vault lid missing all bolts. Vault flange corroded.	Installed 3 new bolts, Teflon washers, weather-resistant metal washers, and locking cap
MW-20	Flush-to-Grade	Concrete pad was slightly cracked. Vault flange damaged.	Installed new well vault and concrete pad. New well vault includes 3 stainless steel bolts, 3 stainless steel/neoprene washers, 3 weather-resistant metal washers, and 1 new O-ring. Installed new locking compression cap.
MW-21	Flush-to-Grade	Vault lid missing one bolt.	Installed 1 new stainless steel bolt, 3 new Teflon washers, and O-ring
MW-22	Flush-to-Grade	None	Cleaned O-ring.

Notes:

All wells had new weather-resistant padlock installed on either their locking well cap or outer metal casing.

Table 5-1: Hydraulic Conductivity Summary

Well ID	Observation Date	Kr Value (cm/sec)	Average
MW-6	3/25/2014	2.257E-04	1.753E-04
	3/26/2014	1.602E-04	
	3/27/2014	1.400E-04	
MW-17	3/25/2014	1.566E-02	1.594E-02
	3/26/2014	1.749E-02	
	3/27/2014	1.468E-02	
MW-21	3/25/2014	6.572E-02	5.423E-02
	3/26/2014	6.195E-02	
	3/27/2014	3.502E-02	
		Site Average	2.345E-02

Note:

Kr values were calculated utilizing Aqtesolv Pro software with the Kansas Geologic Society (KGS) model. Three slug tests were conducted at each well from 3/25/14 to 3/27/14. A Kr value was derived for each individual test and then averaged.

Table 7-1: Maximum Concentration of Contaminants for the Toxicity Characteristics in Solid Waste

EPA HW No.1	Contaminant	CAS Number	Regulatory Level (mg/L)*	Drum #2,3,5,11,12,13 Composite Results (mg/L)
D020	Chlordane	57–74–9	0.03	<0.0009630, BDL
D012	Endrin	72–20–8	0.02	<0.0000460, BDL
D031	Heptachlor (and its epoxide)	76–44–8	0.008	<0.0000290, BDL
D013	Lindane	58–89–9	0.4	<0.0000160, BDL
D014	Methoxychlor	72–43–5	10	<0.0002880, BDL
D015	Toxaphene	8001–35–2	0.5	<0.0042300, BDL

Notes:

* = Regulatory levels for toxicity characteristics are from 40 CFR 261.24, 2006

HW = Hazardous Waste

mg/L = Milligrams per liter.

BDL = Below detection limit

Based on previous TCLP characterization at the site, only pesticide contaminants were detected at the site. Consequently, the sampled media was only analyzed for the above list of constituents.

Table 7-2: Summary of Historical Contaminant Concentrations in Liquid Waste				
EPA HW No.	**Contaminant**	**CAS Number**	**Regulatory Level (mg/L)***	**Maximum Concentrations Recorded from GW Purgewater**
D004	Arsenic	7440–38–2	5	
D005	Barium	7440–39–3	100	
D018	Benzene	71–43–2	0.5	
D006	Cadmium	7440–43–9	1	
D019	Carbon tetrachloride	56–23–5	0.5	
D020	Chlordane	57–74–9	0.03	0.0051
D021	Chlorobenzene	108–90–7	100	
D022	Chloroform	67–66–3	6	
D007	Chromium	7440–47–3	5	
D023	o-Cresol	95–48–7	4200	
D024	m-Cresol	108–39–4	4200	
D025	p-Cresol	106–44–5	4200	
D026	Cresol		4200	
D016	2,4-D	94–75–7	10	
D027	1,4-Dichlorobenzene	106–46–7	7.5	
D028	1,2-Dichloroethane	107–06–2	0.5	
D029	1,1-Dichloroethylene	75–35–4	0.7	
D030	2,4-Dinitrotoluene	121–14–2	30.13	
D012	Endrin	72–20–8	0.02	0.00505
D031	Heptachlor (and its epoxide)	76–44–8	0.008	0.00253
D032	Hexachlorobenzene	118–74–1	30.13	
D033	Hexachlorobutadiene	87–68–3	0.5	
D034	Hexachloroethane	67–72–1	3	
D008	Lead	7439–92–1	5	
D013	Lindane	58–89–9	0.4	0.00089
D009	Mercury	7439–97–6	0.2	
D014	Methoxychlor	72–43–5	10	0.0253
D035	Methyl ethyl ketone (Butanone)	78–93–3	200	
D036	Nitrobenzene	98–95–3	2	
D037	Pentrachlorophenol	87–86–5	100	
D038	Pyridine	110–86–1	35	
D010	Selenium	7782–49–2	1	
D011	Silver	7440–22–4	5	
D039	Tetrachloroethylene	127–18–4	0.7	
D015	Toxaphene	8001–35–2	0.5	0.253
D040	Trichloroethylene	79–01–6	0.5	
D041	2,4,5-Trichlorophenol	95–95–4	400	
D042	2,4,6-Trichlorophenol	88–06–2	2	
D017	2,4,5-TP (Silvex)	93–72–1	1	
D043	Vinyl chloride	75–01–4	0.2	

Notes:

* = Regulatory levels for toxicity characteristics are from 40 CFR 261.24, 2006

EPA = Environmental Protection Agency

HW = Hazardous Waste

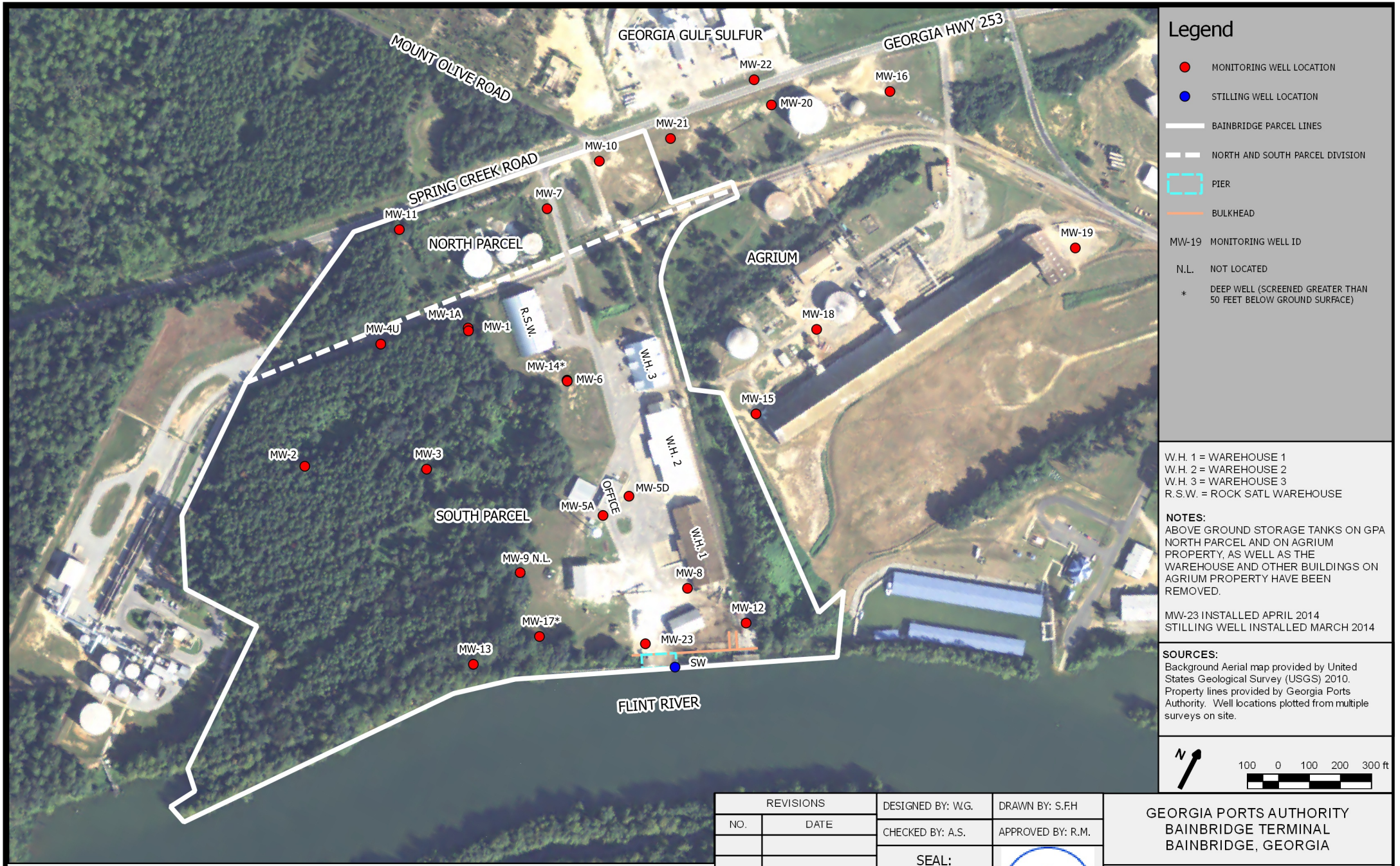
mg/L = Milligrams per liter.

BDL = Below detection limit

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

FOURTH VIRP SEMI-ANNUAL PROGRESS REPORT

FIGURES



Legend

- MONITORING WELL LOCATION
- STILLING WELL LOCATION
- BAINBRIDGE PARCEL LINES
- NORTH AND SOUTH PARCEL DIVISION
- PIER
- BULKHEAD
- MW-19 MONITORING WELL ID
- N.L. NOT LOCATED
- * DEEP WELL (SCREENED GREATER THAN 50 FEET BELOW GROUND SURFACE)

W.H. 1 = WAREHOUSE 1
W.H. 2 = WAREHOUSE 2
W.H. 3 = WAREHOUSE 3
R.S.W. = ROCK SATL WAREHOUSE

NOTES:
ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE BEEN REMOVED.

MW-23 INSTALLED APRIL 2014
STILLING WELL INSTALLED MARCH 2014

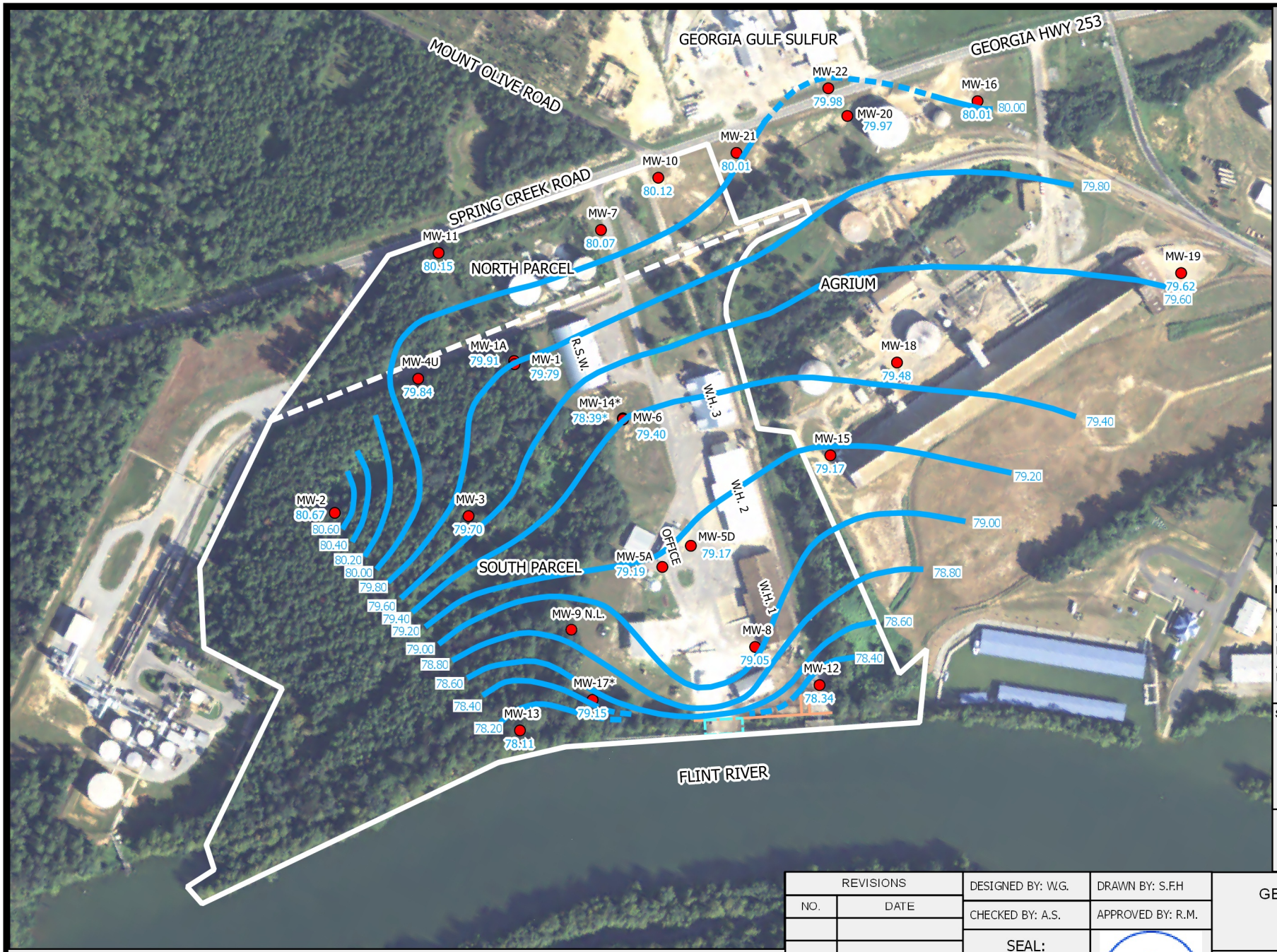
SOURCES:
Background Aerial map provided by United States Geological Survey (USGS) 2010. Property lines provided by Georgia Ports Authority. Well locations plotted from multiple surveys on site.

N

100 0 100 200 300 ft

FIGURE 3-1: SITE MAP

REVISIONS		DESIGNED BY: W.G.	DRAWN BY: S.F.H	GEORGIA PORTS AUTHORITY BAINBRIDGE TERMINAL BAINBRIDGE, GEORGIA	
NO.	DATE	CHECKED BY: A.S.	APPROVED BY: R.M.		
		SEAL:	EIC	ENVIRONMENTAL INTERNATIONAL CORPORATION 161 KIMBALL BRIDGE ROAD ALPHARETTA, GEORGIA 30009	
		Scale: SEE BAR	Date: 09/23/2014	File: 400007 - 4.5 - GPA BAINBRIDGE	SHEET NO.: 1



LEGEND

MARCH GROUNDWATER

- GROUNDWATER CONTOURS
- ESTIMATED CONTOUR
- MONITORING WELL LOCATION
- BANBRIDGE PARCEL LINES
- NORTH AND SOUTH PARCEL DIVISION
- PIER
- BULKHEAD
- 79.40 GROUNDWATER ELEVATION (FEET, NAVD88)
- MW-19 MONITORING WELL ID
- N.L. NOT LOCATED
- * GROUNDWATER ELEVATION NOT CONSIDERED FOR WELL SCREENED GREATER THAN 50 FEET BELOW GROUND SURFACE

W.H. 1 = WAREHOUSE 1
W.H. 2 = WAREHOUSE 2
W.H. 3 = WAREHOUSE 3
R.S.W. = ROCK SATL WAREHOUSE

NOTES:

CONTOUR INTERVAL = 0.2 FEET
ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE BEEN REMOVED.

SOURCES:

BACKGROUND AERIAL MAP PROVIDED BY UNITED STATES GEOLOGICAL SURVEY (USGS) 2010. PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY. WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS ON SITE.

N

100 0 100 200 300 ft

FIGURE 3-2: GROUNDWATER POTENTIOMETRIC SURFACE MAP (MARCH 2014)

REVISIONS	
NO.	DATE

DESIGNED BY: W.G. | DRAWN BY: S.F.H
CHECKED BY: A.S. | APPROVED BY: R.M.
SEAL:

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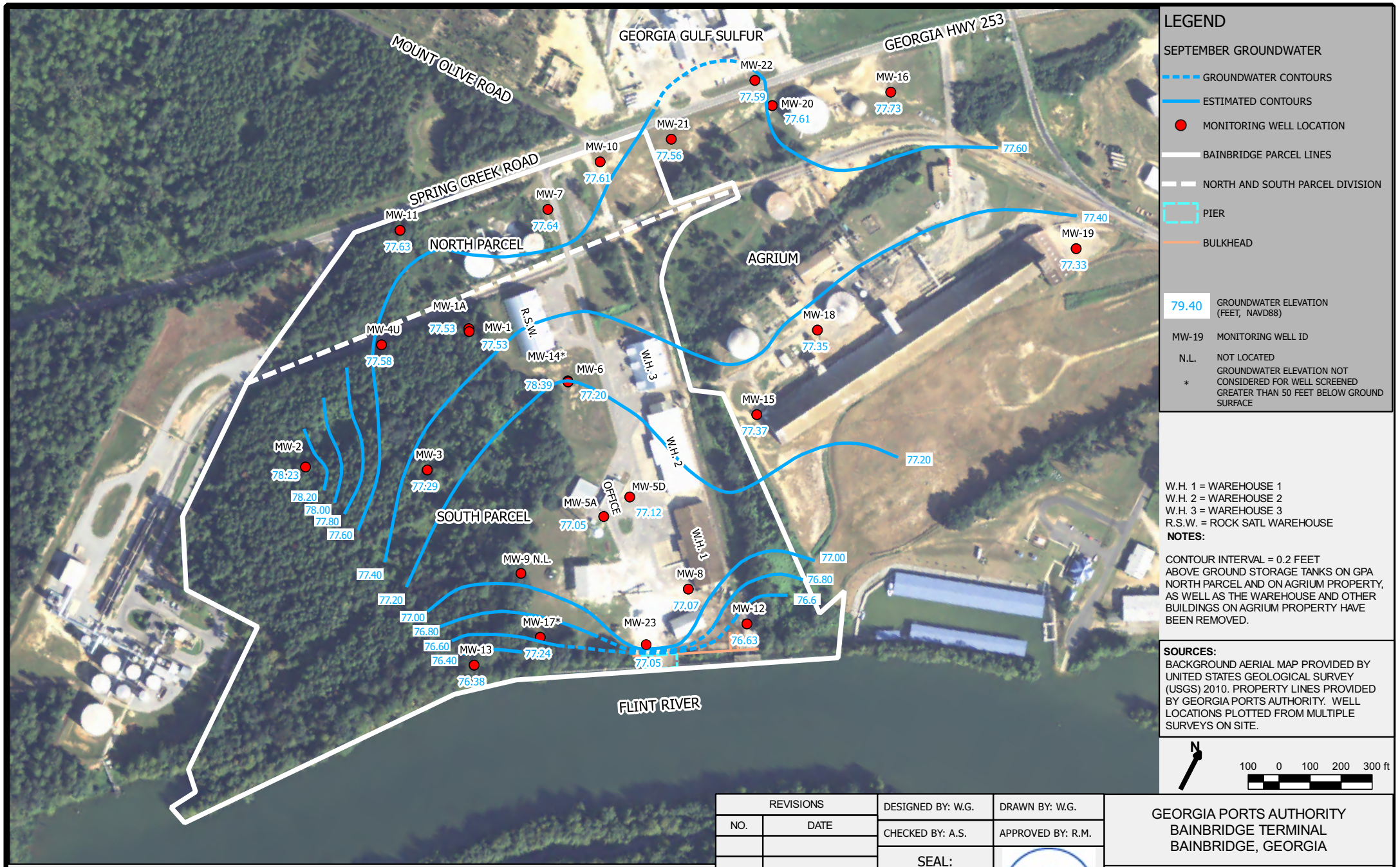
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

ENVIRONMENTAL INTERNATIONAL CORPORATION
161 KIMBALL BRIDGE ROAD
ALPHARETTA, GEORGIA 30009

Scale: SEE BAR | Date: 10/28/2014 | File: 400007 - 4.5 - GPA BAINBRIDGE | SHEET NO.: 1



LEGEND

SEPTEMBER GROUNDWATER

- GROUNDWATER CONTOURS
- ESTIMATED CONTOURS
- MONITORING WELL LOCATION
- BAINBRIDGE PARCEL LINES
- NORTH AND SOUTH PARCEL DIVISION
- PIER
- BULKHEAD

79.40	GROUNDWATER ELEVATION (FEET, NAVD88)
MW-19	MONITORING WELL ID
N.L.	NOT LOCATED
*	GROUNDWATER ELEVATION NOT CONSIDERED FOR WELL SCREENED GREATER THAN 50 FEET BELOW GROUND SURFACE

W.H. 1 = WAREHOUSE 1
W.H. 2 = WAREHOUSE 2
W.H. 3 = WAREHOUSE 3
R.S.W. = ROCK SATL WAREHOUSE

NOTES:

CONTOUR INTERVAL = 0.2 FEET
ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE BEEN REMOVED.

SOURCES:
BACKGROUND AERIAL MAP PROVIDED BY UNITED STATES GEOLOGICAL SURVEY (USGS) 2010. PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY. WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS ON SITE.

N

100 0 100 200 300 ft

FIGURE 3-3: GROUNDWATER POTENTIOMETRIC SURFACE MAP (SEPTEMBER 2014)

REVISIONS	
NO.	DATE

DESIGNED BY: W.G.	DRAWN BY: W.G.
CHECKED BY: A.S.	APPROVED BY: R.M.
SEAL:	EIC
Scale: SEE BAR	Date: 10/28/2014

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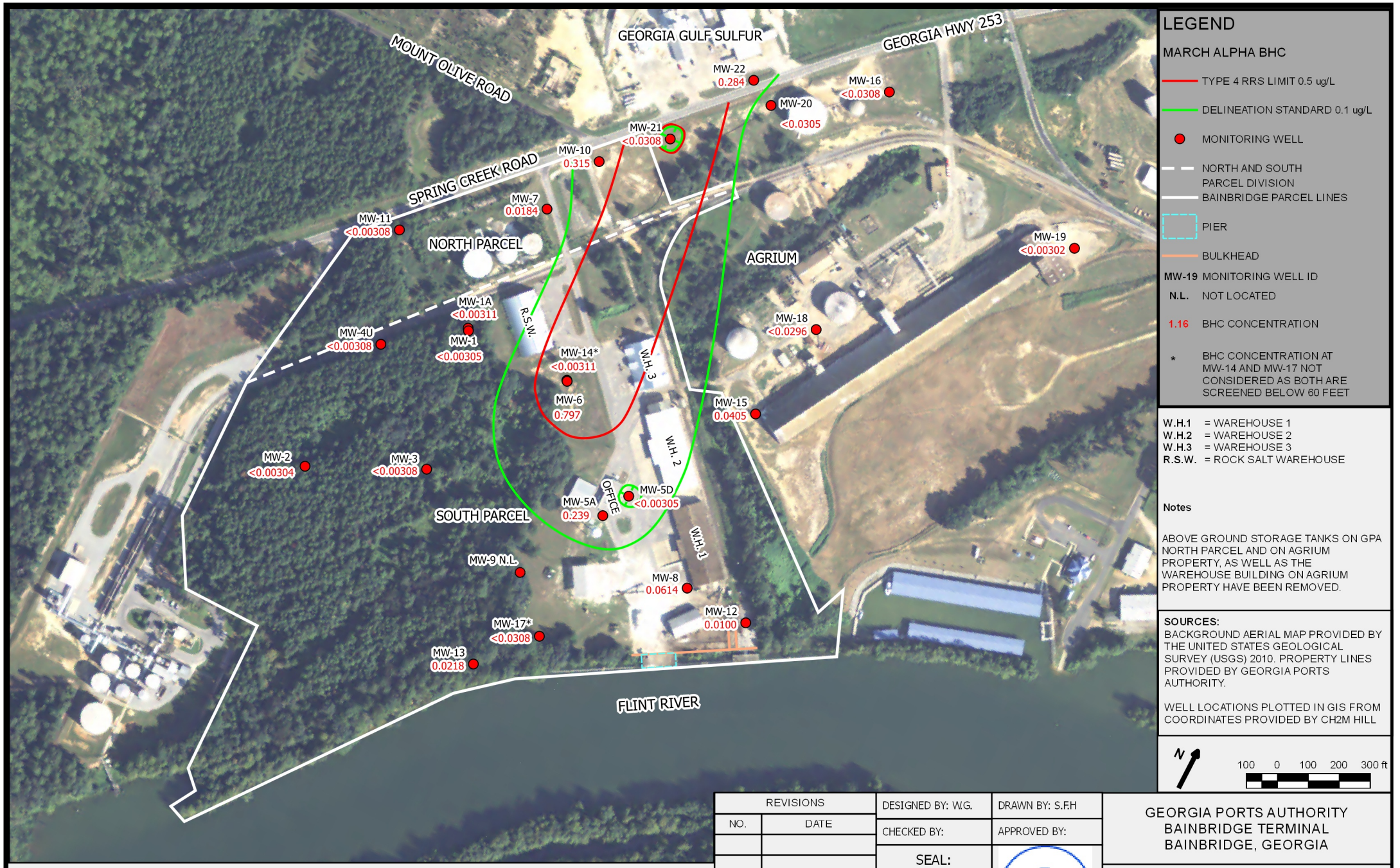
File: 400007 - 4.5 - GPA BAINBRIDGE | SHEET NO.: 1



LEGEND

MARCH ALPHA BHC

- TYPE 4 RRS LIMIT 0.5 ug/L
- DELINEATION STANDARD 0.1 ug/L
- MONITORING WELL
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER
- BULKHEAD
- MW-19 MONITORING WELL ID
- N.L. NOT LOCATED
- 1.16 BHC CONCENTRATION
- * BHC CONCENTRATION AT MW-14 AND MW-17 NOT CONSIDERED AS BOTH ARE SCREENED BELOW 60 FEET

W.H.1 = WAREHOUSE 1
W.H.2 = WAREHOUSE 2
W.H.3 = WAREHOUSE 3
R.S.W. = ROCK SALT WAREHOUSE

Notes

ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE BUILDING ON AGRIUM PROPERTY HAVE BEEN REMOVED.

SOURCES:
BACKGROUND AERIAL MAP PROVIDED BY THE UNITED STATES GEOLOGICAL SURVEY (USGS) 2010. PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.

WELL LOCATIONS PLOTTED IN GIS FROM COORDINATES PROVIDED BY CH2M HILL

N

100 0 100 200 300 ft

FIGURE 3-4: ALPHA BHC ISOCONCENTRATION CONTOUR MAP (MARCH 2014)

REVISIONS	
NO.	DATE

DESIGNED BY: W.G. | DRAWN BY: S.F.H
CHECKED BY: | APPROVED BY:
SEAL:

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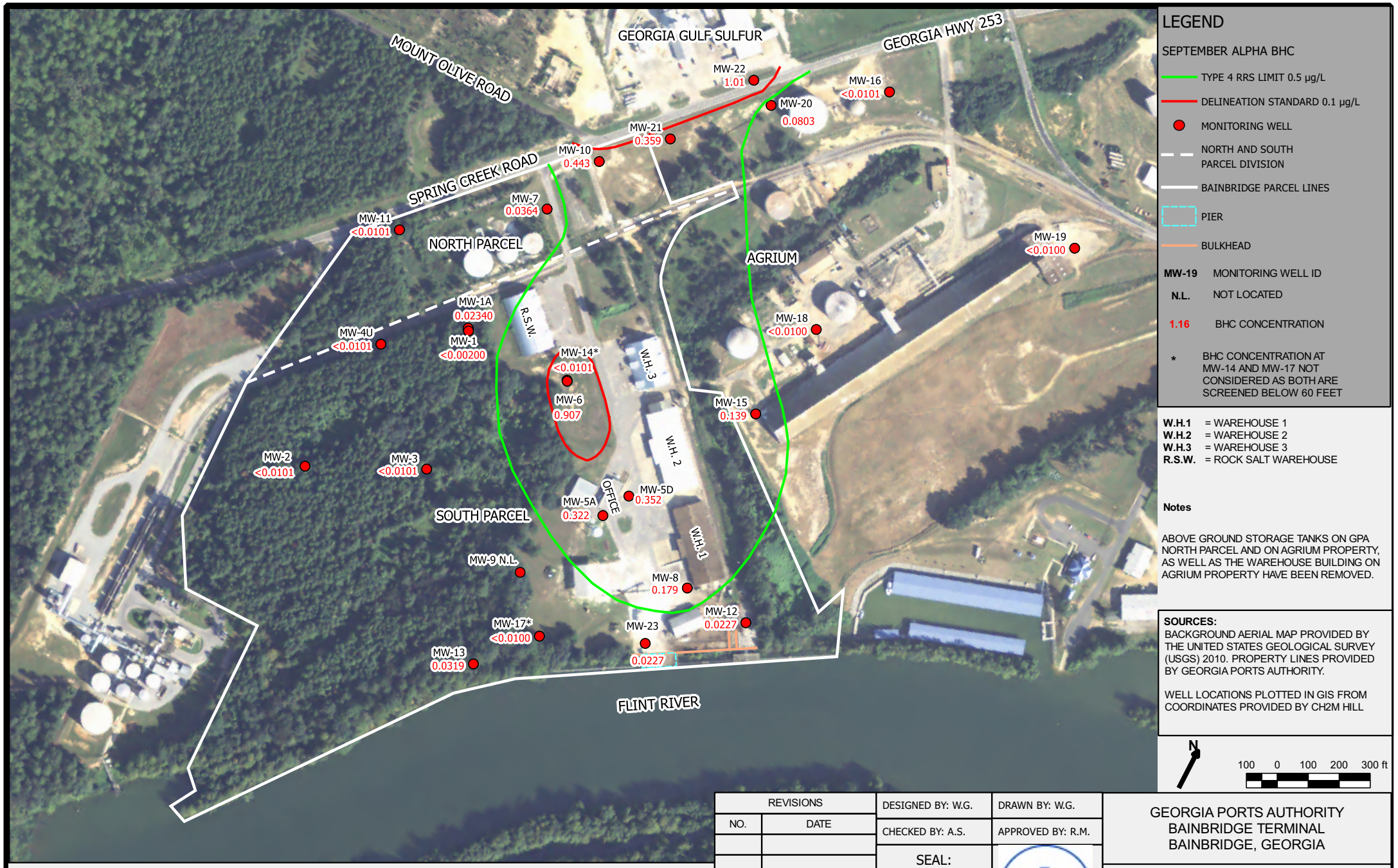
BAINBRIDGE, GEORGIA

ENVIRONMENTAL INTERNATIONAL CORPORATION
161 KIMBALL BRIDGE ROAD
ALPHARETTA, GEORGIA 30009

Scale: SEE BAR | Date: 09/15/2014 | File: 400007 - 4.5 - GPA Bainbridge | SHEET NO.: 1



LEGEND

SEPTEMBER ALPHA BHC

- TYPE 4 RRS LIMIT 0.5 µg/L
- DELINEATION STANDARD 0.1 µg/L
- MONITORING WELL
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER
- BULKHEAD

MW-19 MONITORING WELL ID

N.L. NOT LOCATED

1.16 BHC CONCENTRATION

* BHC CONCENTRATION AT MW-14 AND MW-17 NOT CONSIDERED AS BOTH ARE SCREENED BELOW 60 FEET

W.H.1 = WAREHOUSE 1
W.H.2 = WAREHOUSE 2
W.H.3 = WAREHOUSE 3
R.S.W. = ROCK SALT WAREHOUSE

Notes

ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE BUILDING ON AGRIUM PROPERTY HAVE BEEN REMOVED.

SOURCES:
BACKGROUND AERIAL MAP PROVIDED BY THE UNITED STATES GEOLOGICAL SURVEY (USGS) 2010. PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.

WELL LOCATIONS PLOTTED IN GIS FROM COORDINATES PROVIDED BY CH2M HILL

N

100 0 100 200 300 ft

FIGURE 3-5: ALPHA BHC ISOCONCENTRATION CONTOUR MAP (SEPTEMBER 2014)

REVISIONS	
NO.	DATE

DESIGNED BY: W.G. | DRAWN BY: W.G.
CHECKED BY: A.S. | APPROVED BY: R.M.
SEAL:

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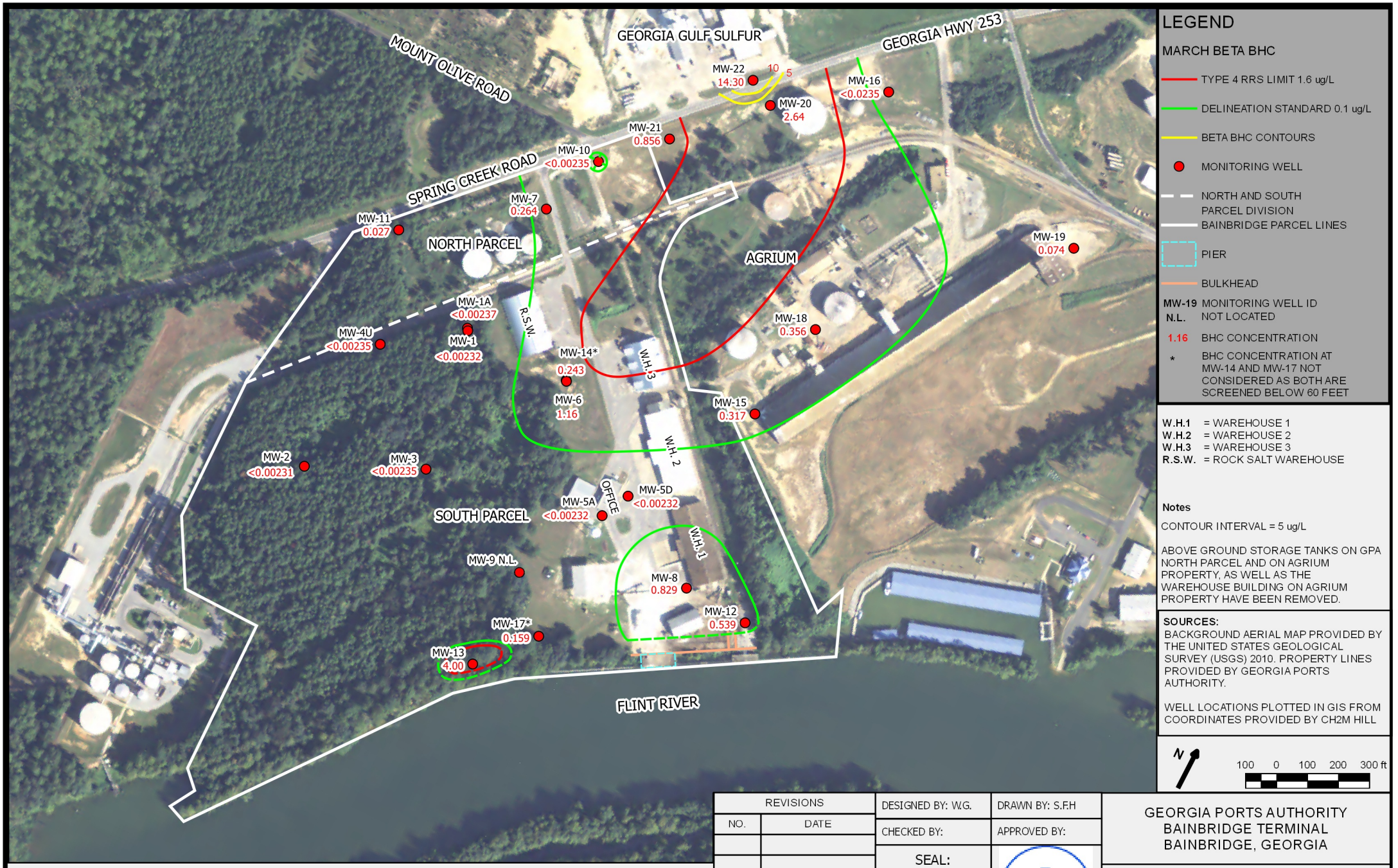
BAINBRIDGE, GEORGIA

ENVIRONMENTAL INTERNATIONAL CORPORATION
161 KIMBALL BRIDGE ROAD
ALPHARETTA, GEORGIA 30009

Scale: SEE BAR | Date: 10/23/2014 | File: 400007 - 4.5 - GPA Bainbridge | SHEET NO.: 1



LEGEND

MARCH BETA BHC

- TYPE 4 RRS LIMIT 1.6 ug/L
- DELINEATION STANDARD 0.1 ug/L
- BETA BHC CONTOURS
- MONITORING WELL
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER
- BULKHEAD
- MW-19 MONITORING WELL ID
- N.L. NOT LOCATED
- 1.16 BHC CONCENTRATION
- * BHC CONCENTRATION AT MW-14 AND MW-17 NOT CONSIDERED AS BOTH ARE SCREENED BELOW 60 FEET

W.H.1 = WAREHOUSE 1
W.H.2 = WAREHOUSE 2
W.H.3 = WAREHOUSE 3
R.S.W. = ROCK SALT WAREHOUSE

Notes

CONTOUR INTERVAL = 5 ug/L

ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE BUILDING ON AGRIUM PROPERTY HAVE BEEN REMOVED.

SOURCES:
BACKGROUND AERIAL MAP PROVIDED BY THE UNITED STATES GEOLOGICAL SURVEY (USGS) 2010. PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.

WELL LOCATIONS PLOTTED IN GIS FROM COORDINATES PROVIDED BY CH2M HILL

N

100 0 100 200 300 ft

FIGURE 3-6 BETA BHC ISOCONCENTRATION CONTOUR MAP (MARCH 2014)

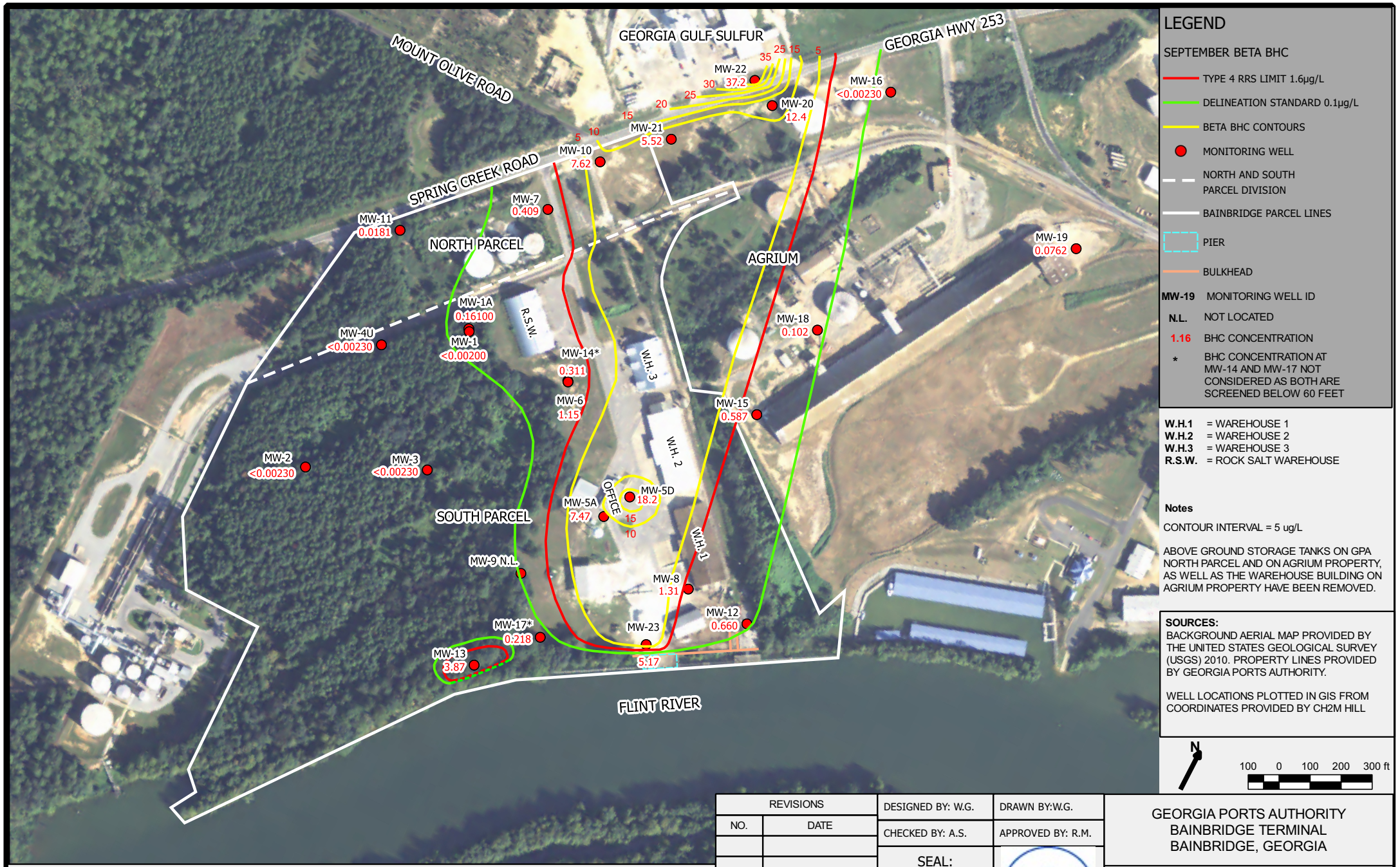
REVISIONS	
NO.	DATE

DESIGNED BY: W.G. | DRAWN BY: S.F.H
CHECKED BY: | APPROVED BY:
SEAL:

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

ENVIRONMENTAL INTERNATIONAL CORPORATION
161 KIMBALL BRIDGE ROAD
ALPHARETTA, GEORGIA 30009

Scale: SEE BAR | Date: 09/15/2014 | File: 400007 - 4.5 - GPA Bainbridge | SHEET NO.: 1



LEGEND

SEPTEMBER BETA BHC

- TYPE 4 RRS LIMIT 1.6µg/L
- DELINEATION STANDARD 0.1µg/L
- BETA BHC CONTOURS
- MONITORING WELL
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER
- BULKHEAD

MW-19 MONITORING WELL ID

N.L. NOT LOCATED

1.16 BHC CONCENTRATION

* BHC CONCENTRATION AT MW-14 AND MW-17 NOT CONSIDERED AS BOTH ARE SCREENED BELOW 60 FEET

W.H.1 = WAREHOUSE 1
W.H.2 = WAREHOUSE 2
W.H.3 = WAREHOUSE 3
R.S.W. = ROCK SALT WAREHOUSE

Notes

CONTOUR INTERVAL = 5 ug/L

ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE BUILDING ON AGRIUM PROPERTY HAVE BEEN REMOVED.

SOURCES:
BACKGROUND AERIAL MAP PROVIDED BY THE UNITED STATES GEOLOGICAL SURVEY (USGS) 2010. PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.

WELL LOCATIONS PLOTTED IN GIS FROM COORDINATES PROVIDED BY CH2M HILL

N

100 0 100 200 300 ft

FIGURE 3-7: BETA BHC ISOCONCENTRATION CONTOUR MAP (SEPTEMBER 2014)

REVISIONS	
NO.	DATE

DESIGNED BY: W.G. | DRAWN BY:W.G.

CHECKED BY: A.S. | APPROVED BY: R.M.

SEAL:

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BAINBRIDGE, GEORGIA

ENVIRONMENTAL INTERNATIONAL CORPORATION
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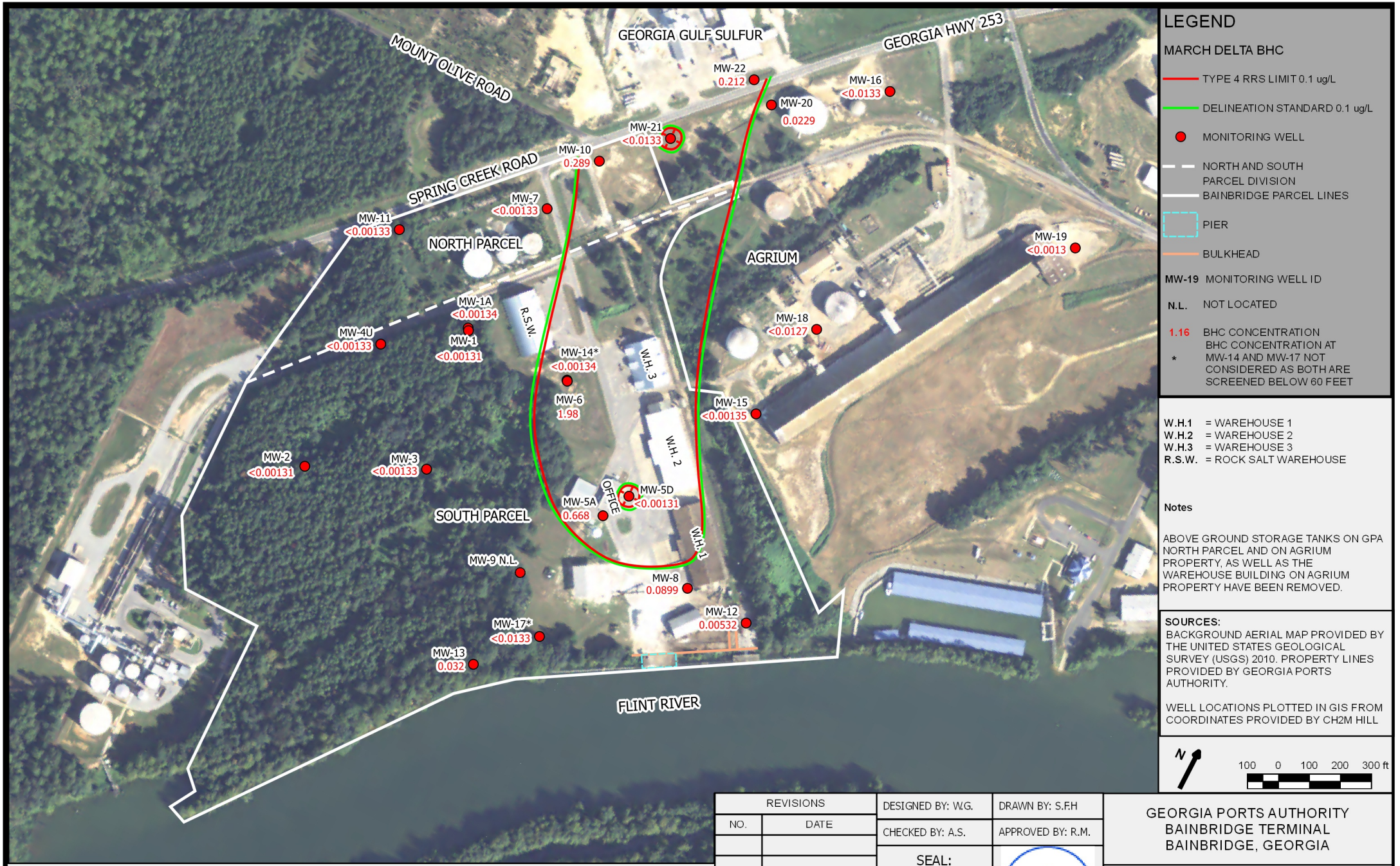
ALPHARETTA, GEORGIA 30009

Scale: SEE BAR | Date: 10/23/2014 | File: 400007 - 4.5 - GPA Bainbridge | SHEET NO.: 1



LEGEND

MARCH DELTA BHC

- TYPE 4 RRS LIMIT 0.1 ug/L
- DELINEATION STANDARD 0.1 ug/L
- MONITORING WELL
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER
- BULKHEAD
- MW-19 MONITORING WELL ID
- N.L. NOT LOCATED
- 1.16 BHC CONCENTRATION
- * BHC CONCENTRATION AT MW-14 AND MW-17 NOT CONSIDERED AS BOTH ARE SCREENED BELOW 60 FEET

W.H.1 = WAREHOUSE 1
W.H.2 = WAREHOUSE 2
W.H.3 = WAREHOUSE 3
R.S.W. = ROCK SALT WAREHOUSE

Notes

ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE BUILDING ON AGRIUM PROPERTY HAVE BEEN REMOVED.

SOURCES:
BACKGROUND AERIAL MAP PROVIDED BY THE UNITED STATES GEOLOGICAL SURVEY (USGS) 2010. PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.

WELL LOCATIONS PLOTTED IN GIS FROM COORDINATES PROVIDED BY CH2M HILL

N

100 0 100 200 300 ft

FIGURE XX: DELTA BHC ISOCONCENTRATION CONTOUR MAP (MARCH 2014)

REVISIONS	
NO.	DATE

DESIGNED BY: W.G. | DRAWN BY: S.F.H
CHECKED BY: A.S. | APPROVED BY: R.M.
SEAL:

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BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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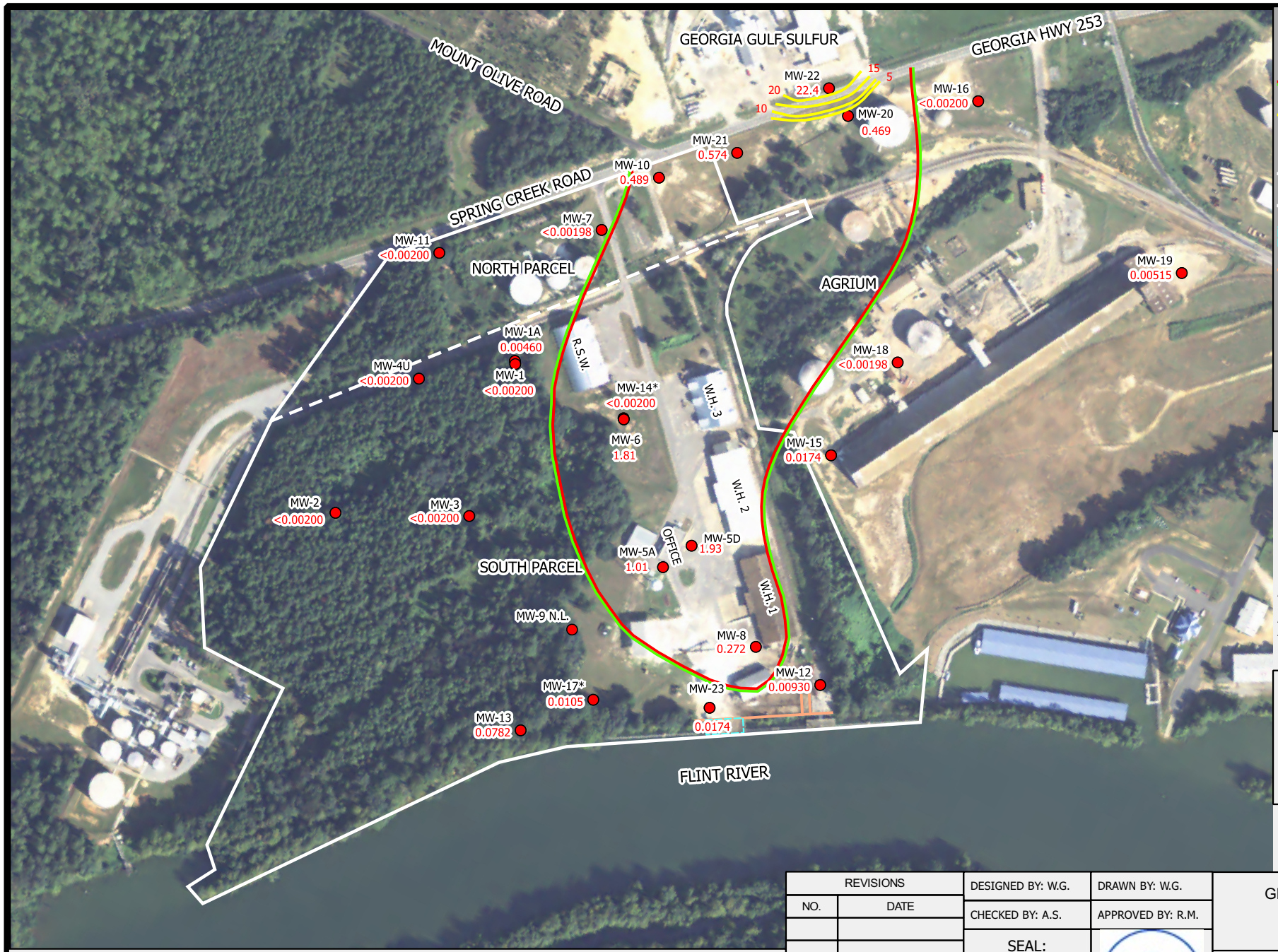
ALPHARETTA, GEORGIA 30009

Scale: SEE BAR | Date: 09/15/2014 | File: 400007 - 4.5 - GPA Bainbridge | SHEET NO.: 1



LEGEND

SEPTEMBER DELTA CONTOURS

- TYPE 4 RRS LIMIT AND DELINEATION STANDARD 0.1µg/L
- DELTA BHC CONTOURS
- MONITORING WELL
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER
- BULKHEAD

MW-19 MONITORING WELL ID

N.L. NOT LOCATED

1.16 BHC CONCENTRATION

BHC CONCENTRATION AT * MW-14 AND MW-17 NOT CONSIDERED AS BOTH ARE SCREENED BELOW 60 FEET

W.H.1 = WAREHOUSE 1
W.H.2 = WAREHOUSE 2
W.H.3 = WAREHOUSE 3
R.S.W. = ROCK SALT WAREHOUSE

Notes

ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE BUILDING ON AGRIUM PROPERTY HAVE BEEN REMOVED.

SOURCES:
BACKGROUND AERIAL MAP PROVIDED BY THE UNITED STATES GEOLOGICAL SURVEY (USGS) 2010. PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.

WELL LOCATIONS PLOTTED IN GIS FROM COORDINATES PROVIDED BY CH2M HILL

N

100 0 100 200 300 ft

FIGURE 3-9: DELTA BHC ISOCONCENTRATION CONTOUR MAP (SEPTEMBER 2014)

REVISIONS	
NO.	DATE

DESIGNED BY: W.G. | DRAWN BY: W.G.

CHECKED BY: A.S. | APPROVED BY: R.M.

SEAL:

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

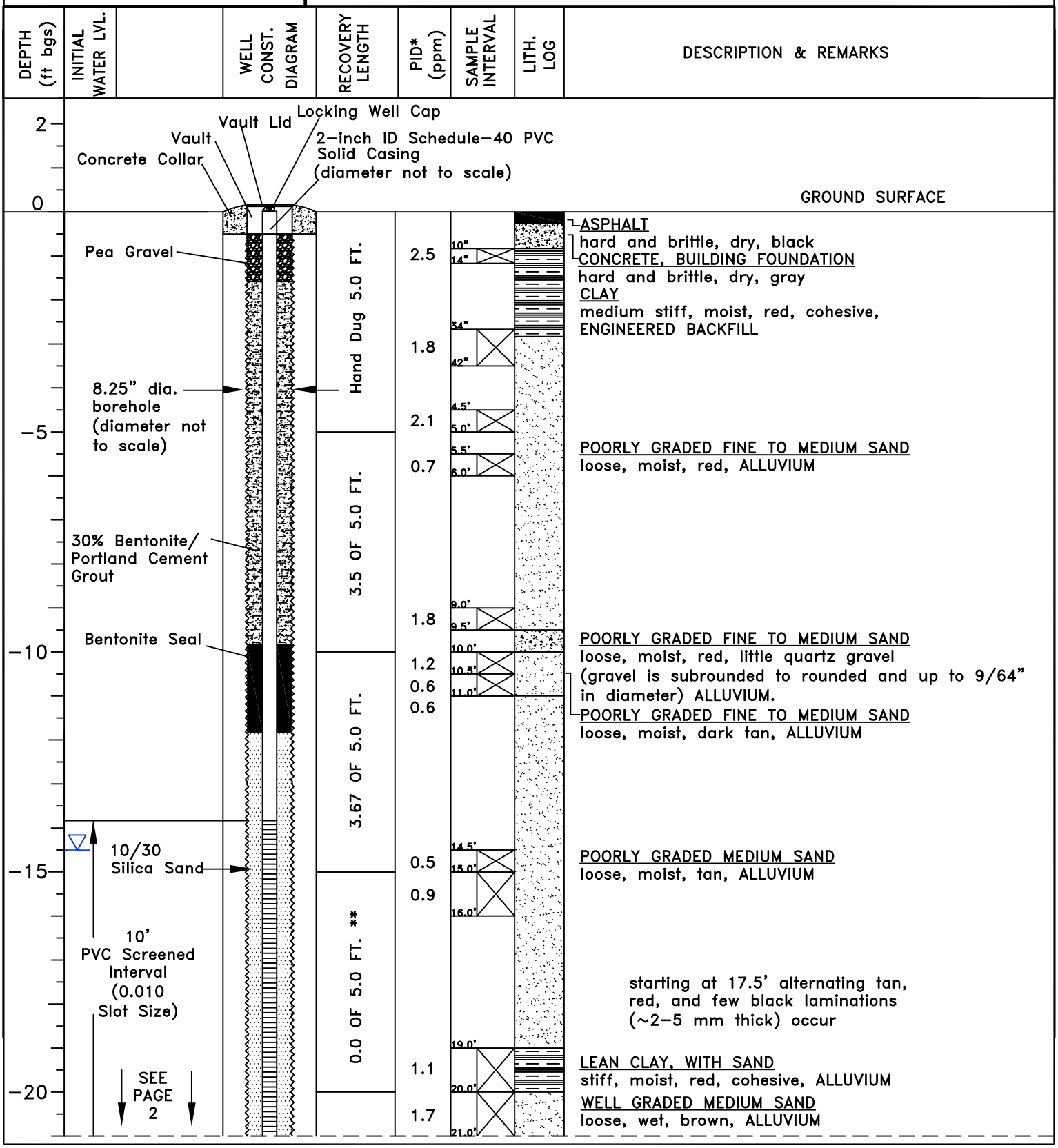
ENVIRONMENTAL INTERNATIONAL CORPORATION
161 KIMBALL BRIDGE ROAD
ALPHARETTA, GEORGIA 30009

Scale: SEE BAR | Date: 10/23/2014 | File: 400007 - 4.5 - GPA Bainbridge | SHEET NO.: 1

ENVIRONMENTAL INT'L CORP.
161 KIMBALL BRIDGE ROAD
ALPHARETTA, GEORGIA, 30009 USA
PHONE: 770-772-7100
FAX: 770-772-0555
http://www.eicusa.com

FIGURE 4-1: MONITORING WELL MW-23

MONITOR WELL MW-23	DRILLING COMPANY BETTS ENV. RECOVERY
PROJECT GPA BAINBRIDGE TERMINAL	DATE DRILLED 4/23/2013
LOCATION BAINBRIDGE GA	SURFACE ELEVATION UNKNOWN
JOB NUMBER 400007-4.2	TOTAL DEPTH OF WELL 24.03 FT. BGS
GEOLOGIST ALAN SANDERS	TOP OF BEDROCK N/A
DRILL METHOD 6620DT GEOPROBE WITH HOLLOW STEM AUGER	INITIAL WATER LEVEL ~ 14.5 FT. BGS



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ALPHARETTA, GEORGIA, 30009 USA
PHONE: 770-772-7100
FAX: 770-772-0555
http://www.eicusa.com

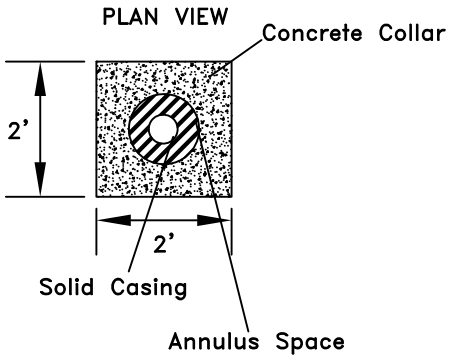
FIGURE 4-1: MONITORING WELL MW-23

MONITOR WELL MW-23
PROJECT GPA BAINBRIDGE TERMINAL
LOCATION BAINBRIDGE GA
JOB NUMBER 400007-4.2
GEOLOGIST ALAN SANDERS
DRILL METHOD 6620DT GEOPROBE WITH HOLLOW STEM AUGER

DRILLING COMPANY BETTS ENV. RECOVERY
DATE DRILLED 4/23/2013
SURFACE ELEVATION UNKNOWN
TOTAL DEPTH OF WELL 24.03 FT. BGS
TOP OF BEDROCK N/A
INITIAL WATER LEVEL ~ 14.5 FT. BGS

DEPTH (ft bgs)	INITIAL WATER LVL.	WELL CONST. DIAGRAM	RECOVERY LENGTH	PID (ppm)	SAMPLE INTERVAL	LITH. LOG	DESCRIPTION & REMARKS
-20		SEE PAGE 1					FOLD HERE TO JOIN PAGE 1
		2" End Cap	5.0 OF 5.0 FT.	1.7	22.0'		POORLY GRADED MEDIUM SAND WITH GRAVEL loose, wet, brown, gravel (gravel ranges in diameter from 0.172-0.531") ALLUVIUM.
				1.9	23.0'		POORLY GRADED MEDIUM SAND WITH LITTLE SILT loose, wet, red to brown, ALLUVIUM.
-25				1.8	24.0'		POORLY GRADED MEDIUM SAND WITH GRAVEL loose, wet, tan, some gravel, ALLUVIUM.
					25.0'		

Notes:
* = PID values were recorded after soil samples had been placed into plastic bags. background readings ranged from 0.0 to 0.1 ppm.
** = Drilling crew was unable to retrieve the soil core sampler within the 15 to 20 foot core interval and it was abandoned in place at this depth. Soil was characterized within this interval and samples were collected from the auger.



-30
-35
-40

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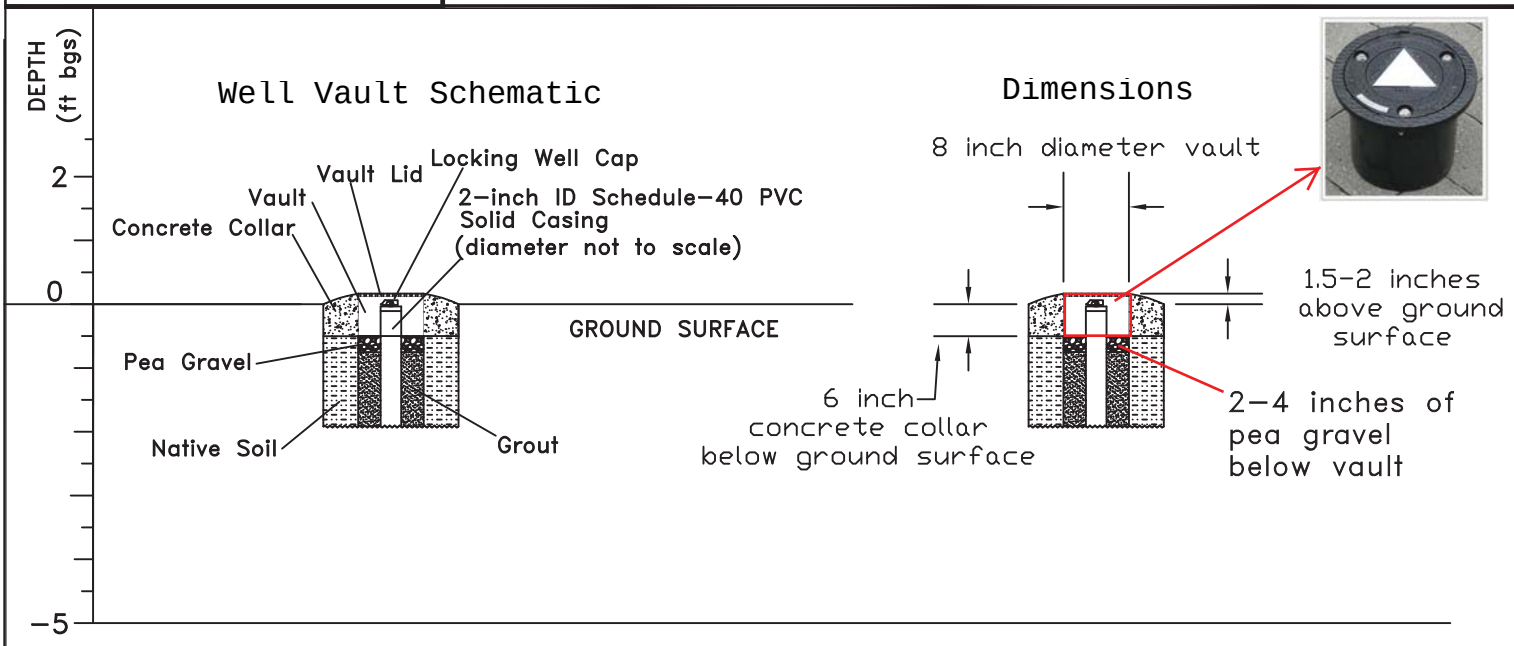
FAX: 770-772-0555
http://www.eicusa.com

Figure 4-2: General Well Vault Schematic

PROJECT GPA Bainbridge Terminal

LOCATION Bainbridge, GA

JOB NUMBER 400007



Remove old well pad, or...



Mark new well pad installation (2' X 2' square)



Saw cut new well pad form



Remove saw cuttings, place pea gravel and well vault



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Figure 4-2: General Well Vault Schematic

PROJECT GPA Bainbridge Terminal

LOCATION Bainbridge, GA

JOB NUMBER 400007

Well vault with pea gravel (top view)



Place cement for 6" deep collar

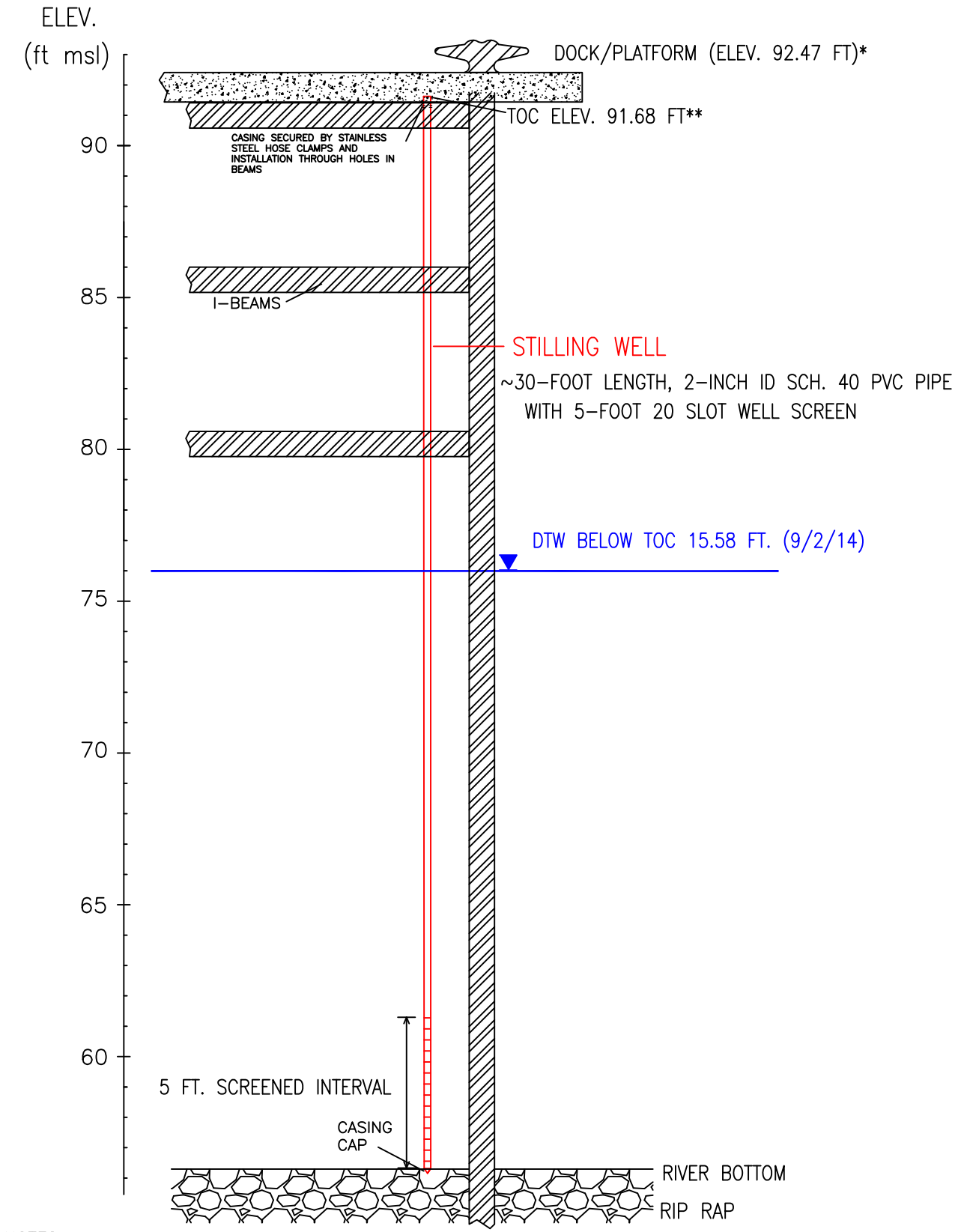


Create beveled edge from ground surface to top of well vault (1.5 to 2 inches in height)



Finished well vault with 3/8" bolts and washers





NOTES:

* DOCK ELEVATION BASED ON 6/28/2013 SURVEY PROVIDED BY DONALD, GARRETT, & ASSOCIATES, INC.

** TOC ELEVATION BASED ON 7/8/2014 SURVEY PROVIDED BY DONALD, GARRETT, & ASSOCIATES, INC.
WELL INSTALLED 03/27/2014
HORIZONTAL SCALE APPROXIMATED

FIGURE 4-3: STILLING WELL AS-BUILT DIAGRAM

DESIGNED BY:	DRAWN BY:	REVISIONS NO.	DATE
S.F.H.	S.F.H		
CHECKED BY:	APPROVED BY:		
A.S.	A.S.		
SEAL:			

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BANINBRIDGE GA

ENVIRONMENTAL INTERNATIONAL CORP.
161 KIMBALL BRIDGE ROAD, SUITE 100
ALPHARETTA, GEORGIA 30009

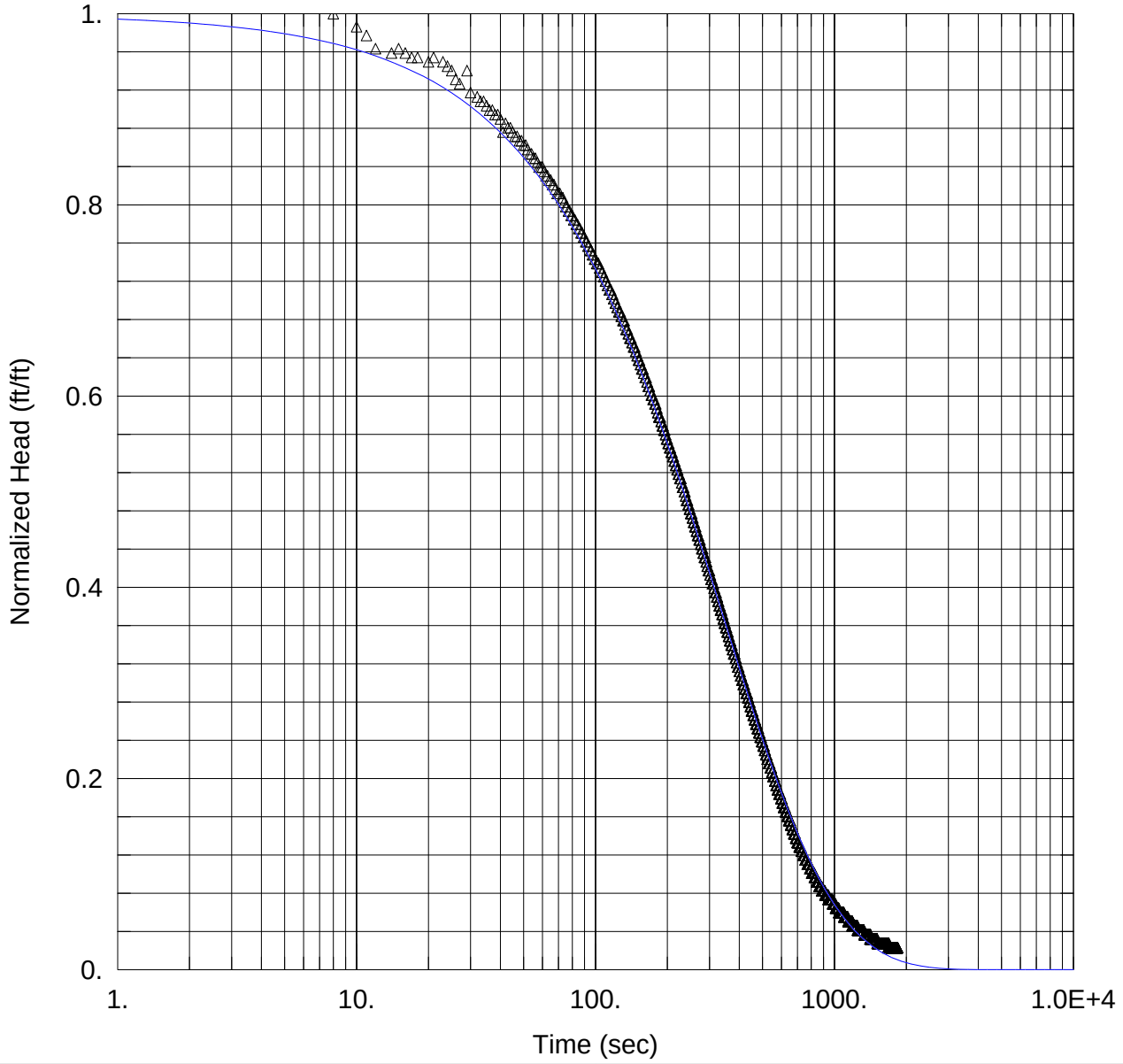
SCALE: SEE VERTICAL SCALE

DATE: 10/2/2014

FIGURE 5-1

MW-6 Falling Head Test 1

Prepared By:	Prepared For:
EIC	GPA
Project:	Location:
400007 - 4.5	Bainbridge, GA



Data Set: Z:\...\FH1 MW-6 GPA Bainbridge.aqt
Date: 10/22/14 Time: 14:52:56

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.0002257 cm/sec Ss = 2.29E-5 ft^{-1}
Kz/Kr = 1.

AQUIFER DATA

Saturated Thickness: 39.34 ft

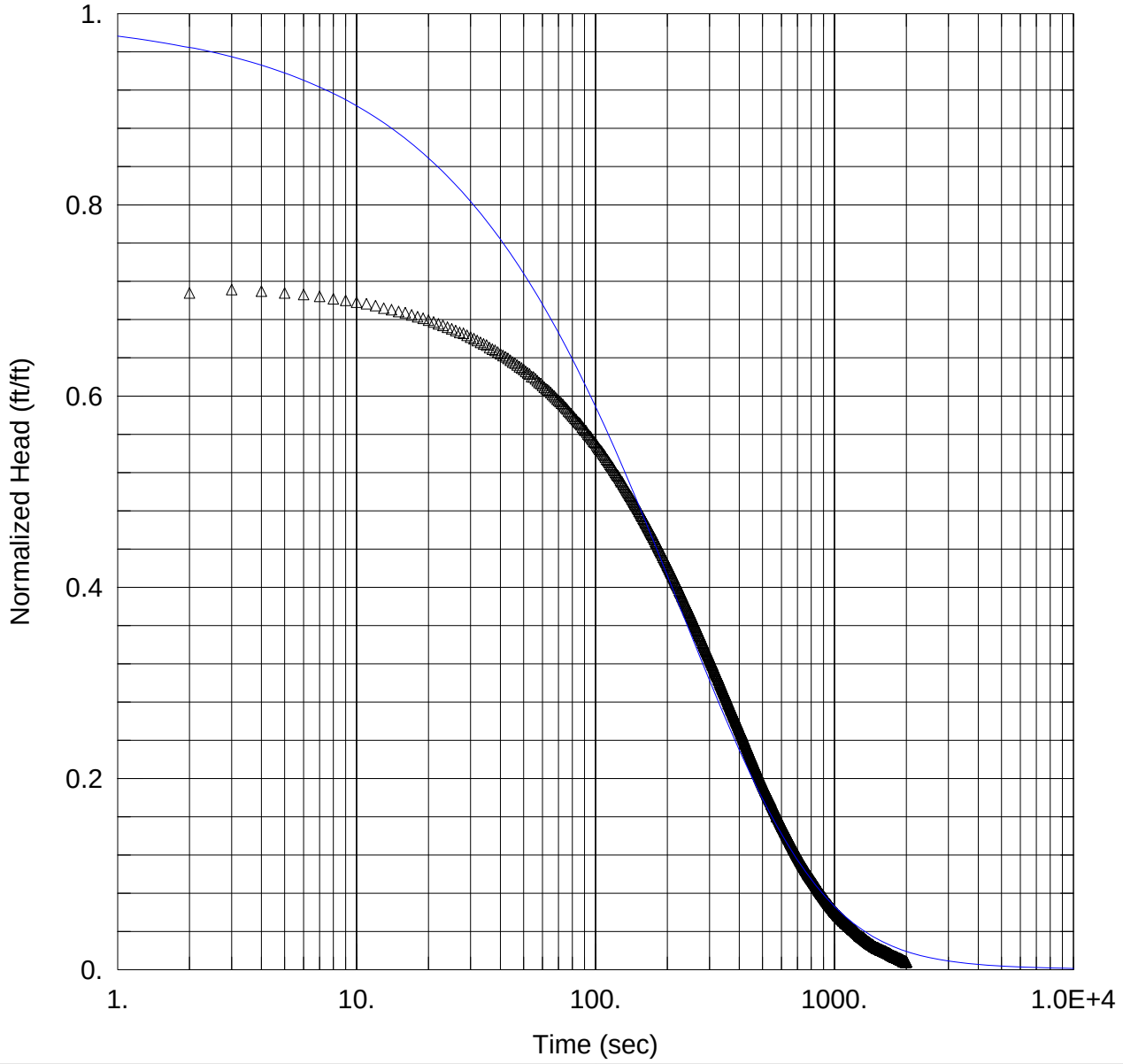
WELL DATA (MW-6 FH1)

Initial Displacement: 2.18 ft
Static Water Column Height: 29.34 ft
Total Well Penetration Depth: 29.1 ft
Screen Length: 5. ft
Casing Radius: 0.0853 ft
Well Radius: 0.0853 ft
Gravel Pack Porosity: 0.35

FIGURE 5-2

MW-6 Falling Head Test 2

Prepared By:	Prepared For:
EIC	GPA
Project:	Location:
400007 - 4.5	Bainbridge, GA



Data Set: Z:\...\FH2 MW-6 GPA Bainbridge.aqt
Date: 10/22/14 Time: 14:56:37

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.0001602 cm/sec Ss = 0.001667 ft^{-1}
Kz/Kr = 1.

AQUIFER DATA

Saturated Thickness: 39.3 ft

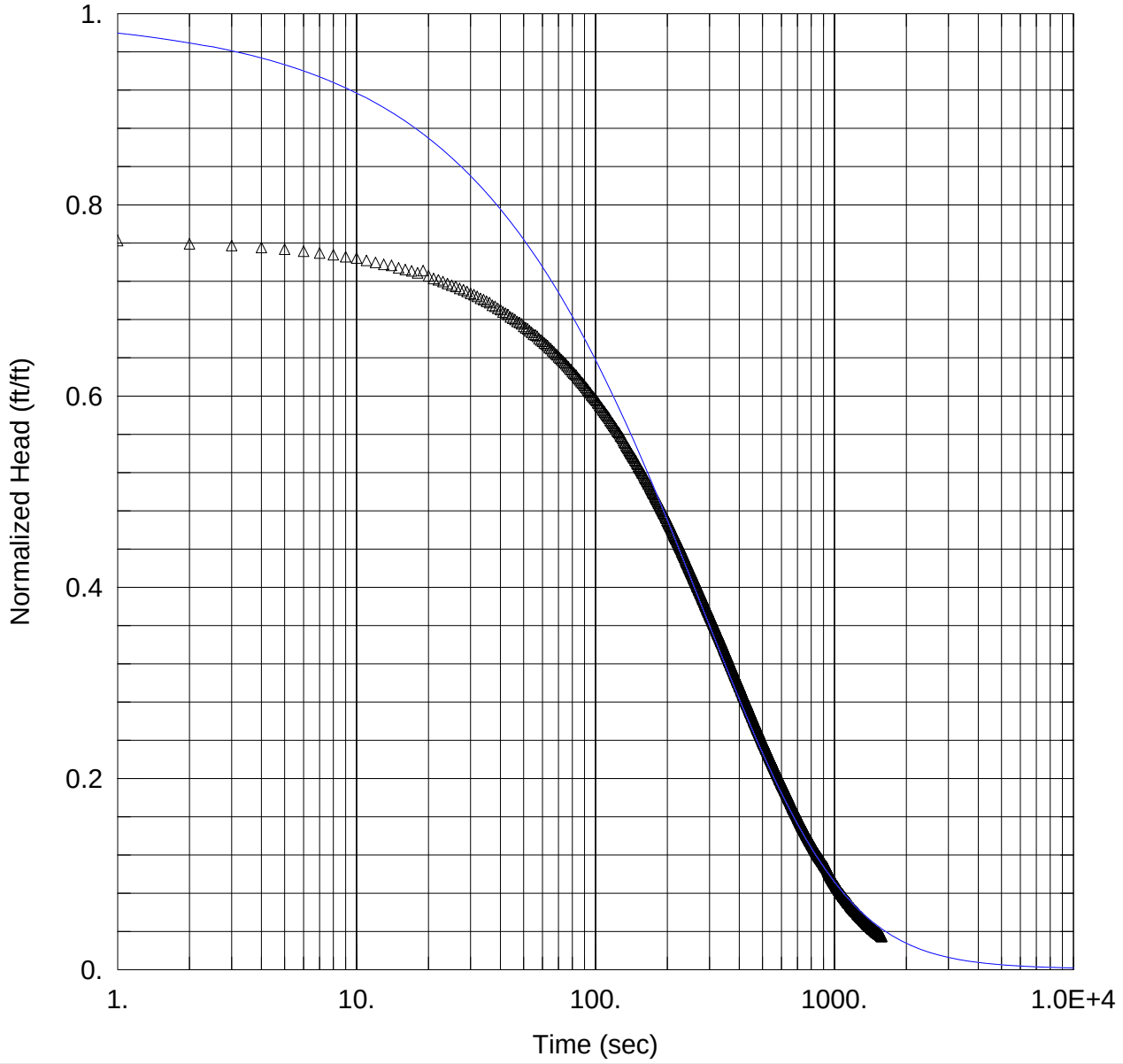
WELL DATA (MW-6 FH2)

Initial Displacement: 3.097 ft
Static Water Column Height: 29.3 ft
Total Well Penetration Depth: 29.1 ft
Screen Length: 5. ft
Casing Radius: 0.0853 ft
Well Radius: 0.0853 ft
Gravel Pack Porosity: 0.35

FIGURE 5-3

MW-6 Falling Head Test 3

Prepared By:	Prepared For:
EIC	GPA
Project:	Location:
400007 - 4.5	Bainbridge, GA



Data Set: Z:\...\FH3 MW-6 GPA Bainbridge.aqt
Date: 10/22/14 Time: 15:05:27

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.00014 cm/sec Ss = 0.001667 ft^{-1}
Kz/Kr = 1.

AQUIFER DATA

Saturated Thickness: 39.3 ft

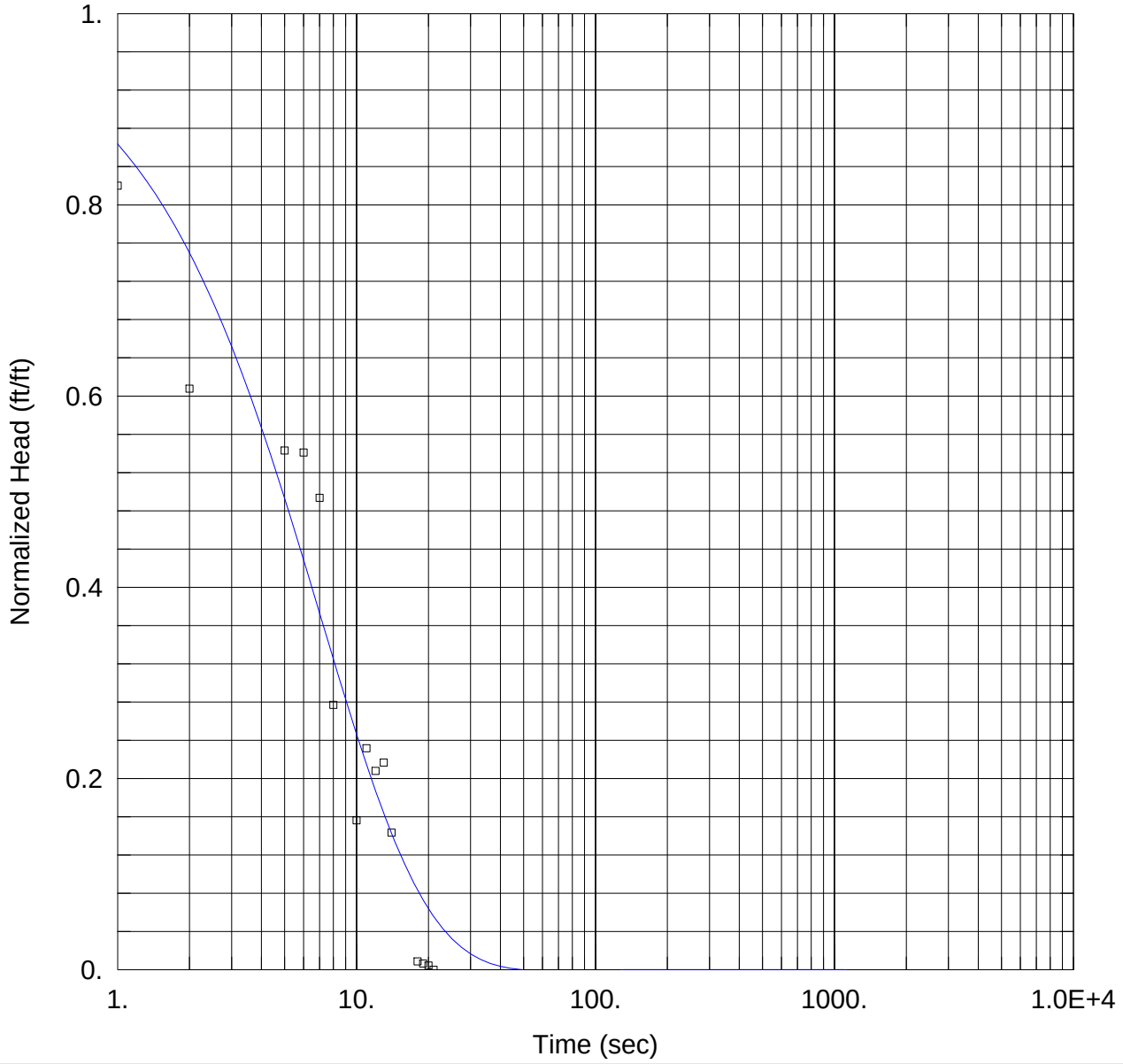
WELL DATA (MW-6 FH3)

Initial Displacement: 2.894 ft
Static Water Column Height: 29.3 ft
Total Well Penetration Depth: 29.1 ft
Screen Length: 5. ft
Casing Radius: 0.0853 ft
Well Radius: 0.0853 ft
Gravel Pack Porosity: 0.35

FIGURE 5-4

MW-17 Falling Head Test 1

Prepared By:	Prepared For:
EIC	GPA
Project:	Location:
400007 - 4.5	Bainbridge, GA



Data Set: Z:\...\FH1 MW-17 GPA Bainbridge.aqt
Date: 10/22/14 Time: 14:55:30

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.01566 cm/sec Ss = 9.933E-7 ft^{-1}
Kz/Kr = 1.

AQUIFER DATA

Saturated Thickness: 55.8 ft

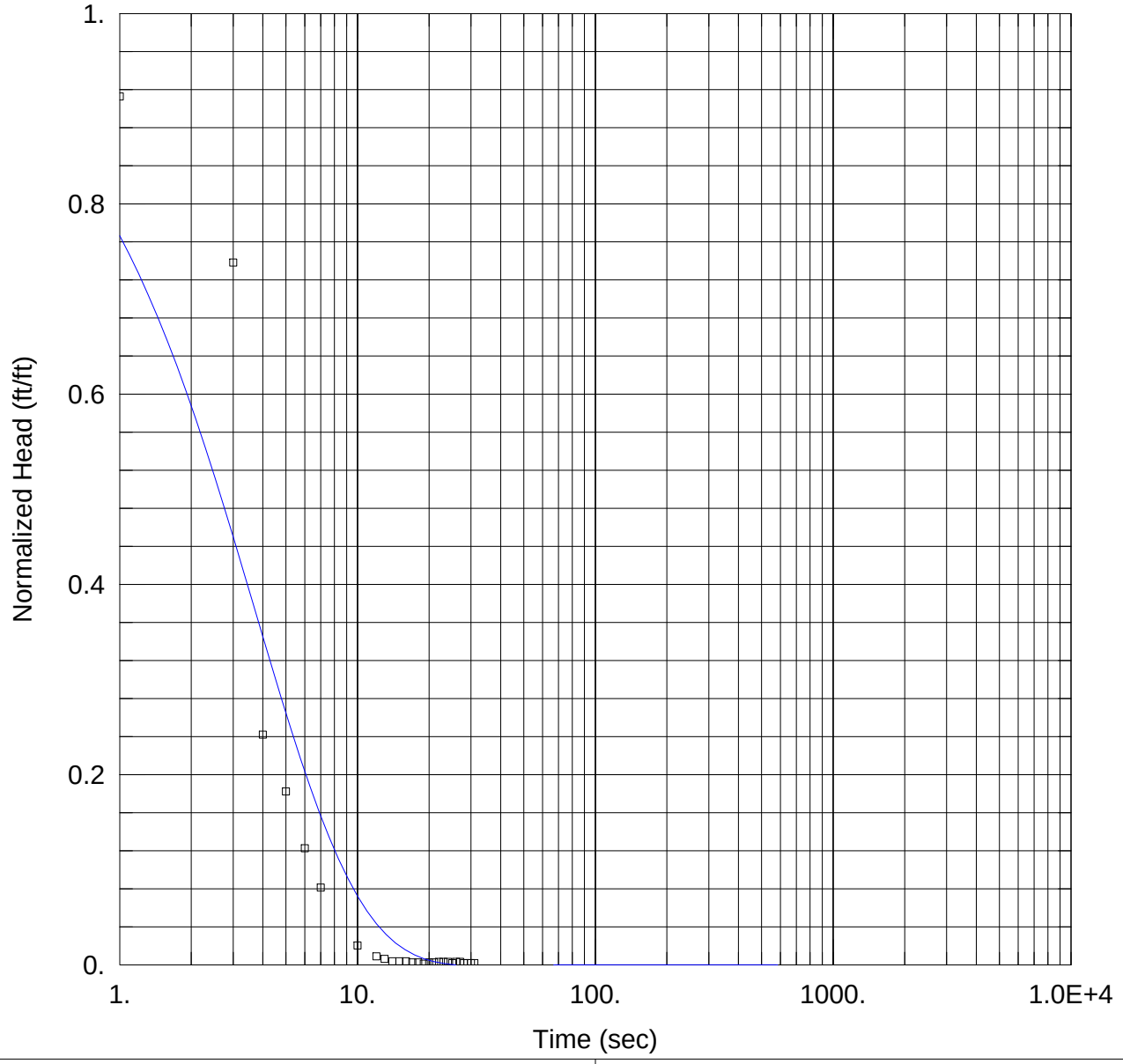
WELL DATA (MW-17)

Initial Displacement: 0.928 ft
Static Water Column Height: 45.8 ft
Total Well Penetration Depth: 39.3 ft
Screen Length: 10. ft
Casing Radius: 0.0853 ft
Well Radius: 0.0853 ft
Gravel Pack Porosity: 0.35

FIGURE 5-5

MW-17 Falling Head Test 2

Prepared By:	Prepared For:
EIC	GPA
Project:	Location:
400007 - 4.5	Bainbridge, GA



Data Set: Z:\...\FH2 MW-17 GPA Bainbridge.aqt
Date: 10/22/14 Time: 14:56:55

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.01749 cm/sec Ss = 1.667E-12 ft^{-1}
Kz/Kr = 1.

AQUIFER DATA

Saturated Thickness: 55.8 ft

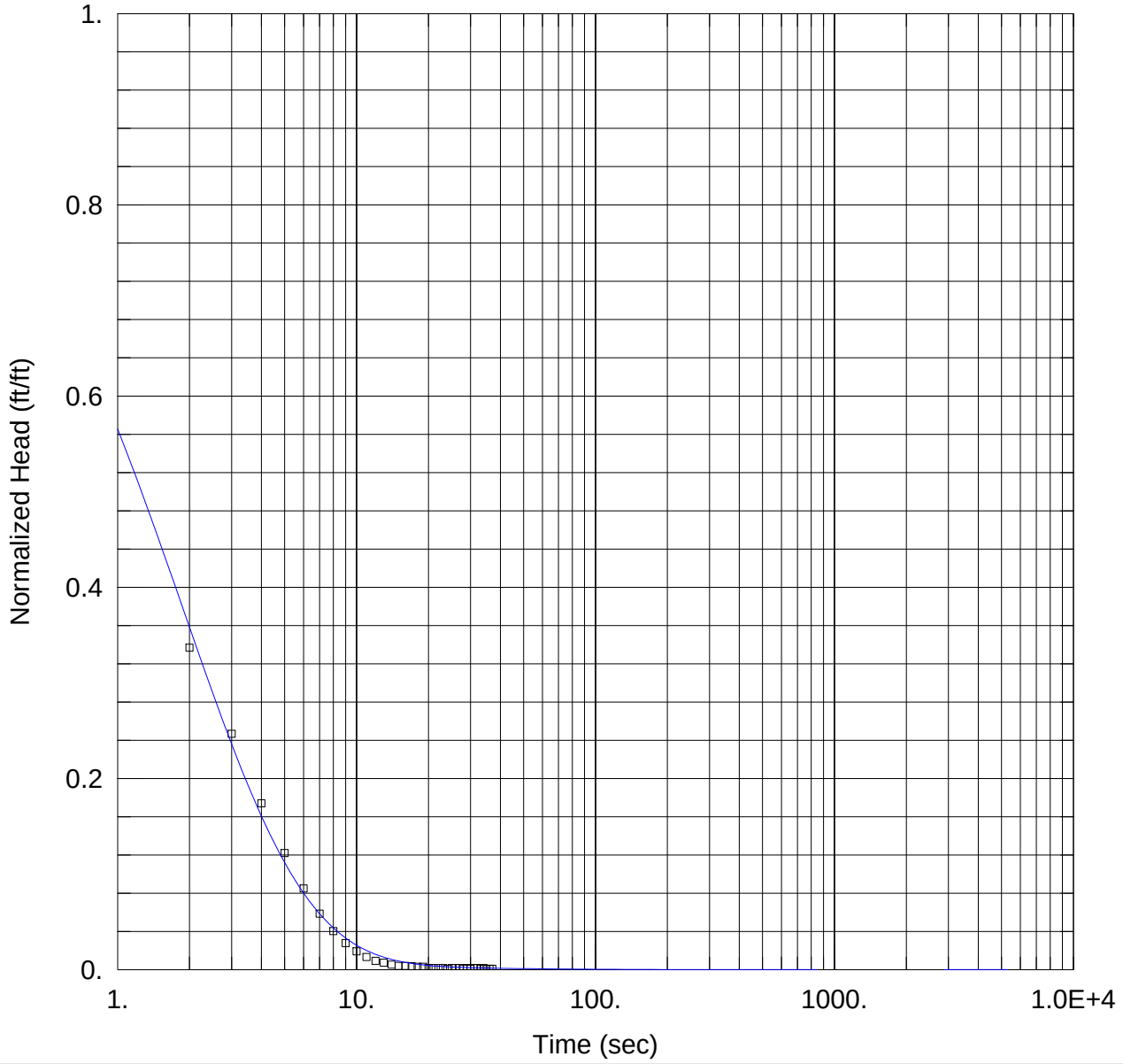
WELL DATA (MW-17 FH2)

Initial Displacement: 1.574 ft
Static Water Column Height: 45.8 ft
Total Well Penetration Depth: 39.3 ft
Screen Length: 10. ft
Casing Radius: 0.0853 ft
Well Radius: 0.0853 ft
Gravel Pack Porosity: 0.35

FIGURE 5-6

MW-17 Falling Head Test 3

Prepared By:	Prepared For:
EIC	GPA
Project:	Location:
400007 - 4.5	Bainbridge, GA



Data Set: Z:\...\FH3 MW-17 GPA Bainbridge.aqt
Date: 10/22/14 Time: 15:05:44

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.01468 cm/sec Ss = 6.731E-5 ft^{-1}
Kz/Kr = 1.

AQUIFER DATA

Saturated Thickness: 55.8 ft

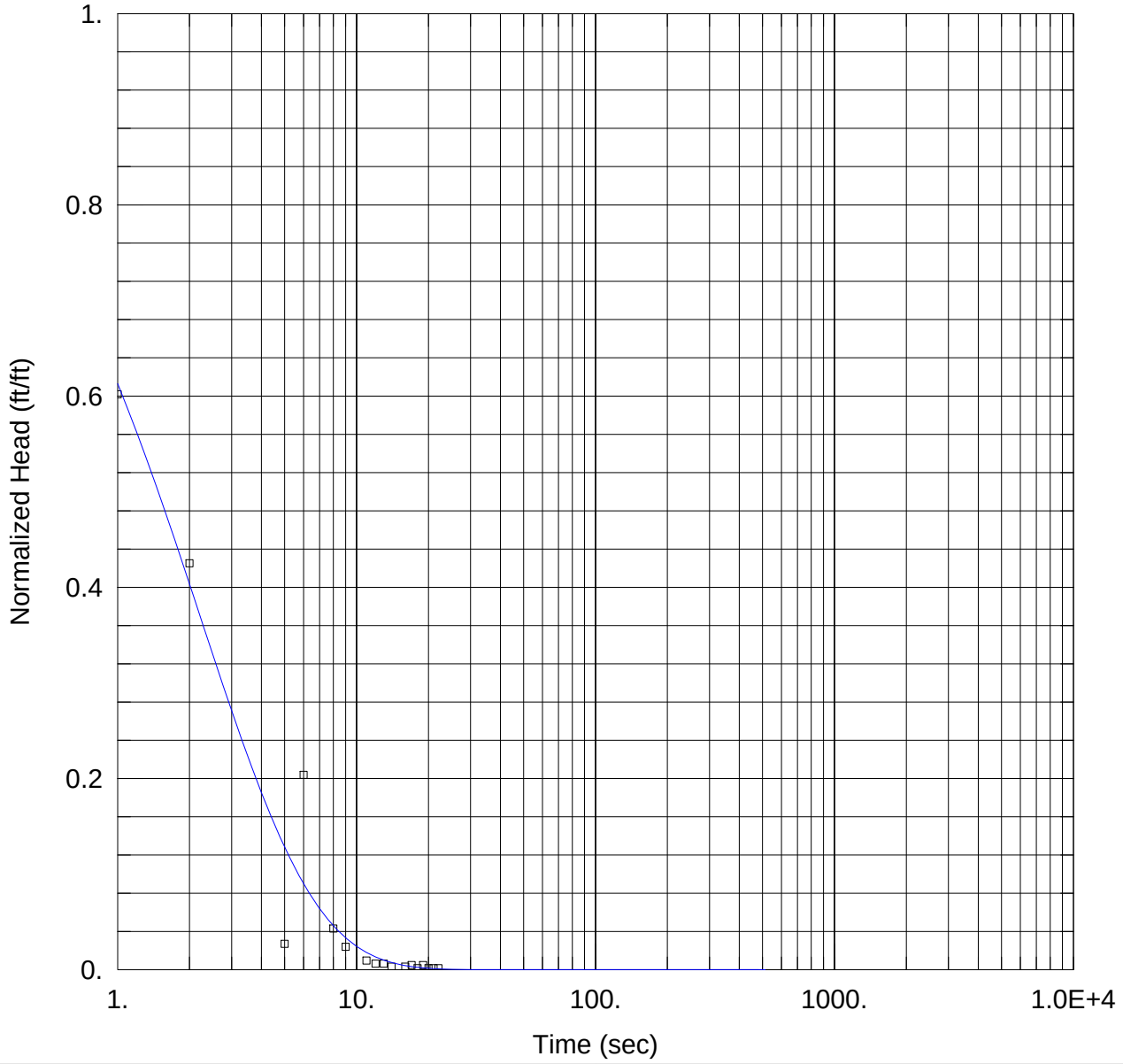
WELL DATA (MW-17 FH3)

Initial Displacement: 3.023 ft
Static Water Column Height: 45.8 ft
Total Well Penetration Depth: 39.3 ft
Screen Length: 10. ft
Casing Radius: 0.0853 ft
Well Radius: 0.0853 ft
Gravel Pack Porosity: 0.35

FIGURE 5-7

MW-21 Falling Head Test 1

Prepared By:	Prepared For:
EIC	GPA
Project:	Location:
4.5	Bainbridge, GA



Data Set: Z:\...\FH1 MW-21 GPA Bainbridge.aqt
Date: 10/22/14 Time: 14:56:03

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.06572 cm/sec Ss = 0.0001267 ft^{-1}
Kz/Kr = 1.

AQUIFER DATA

Saturated Thickness: 24.47 ft

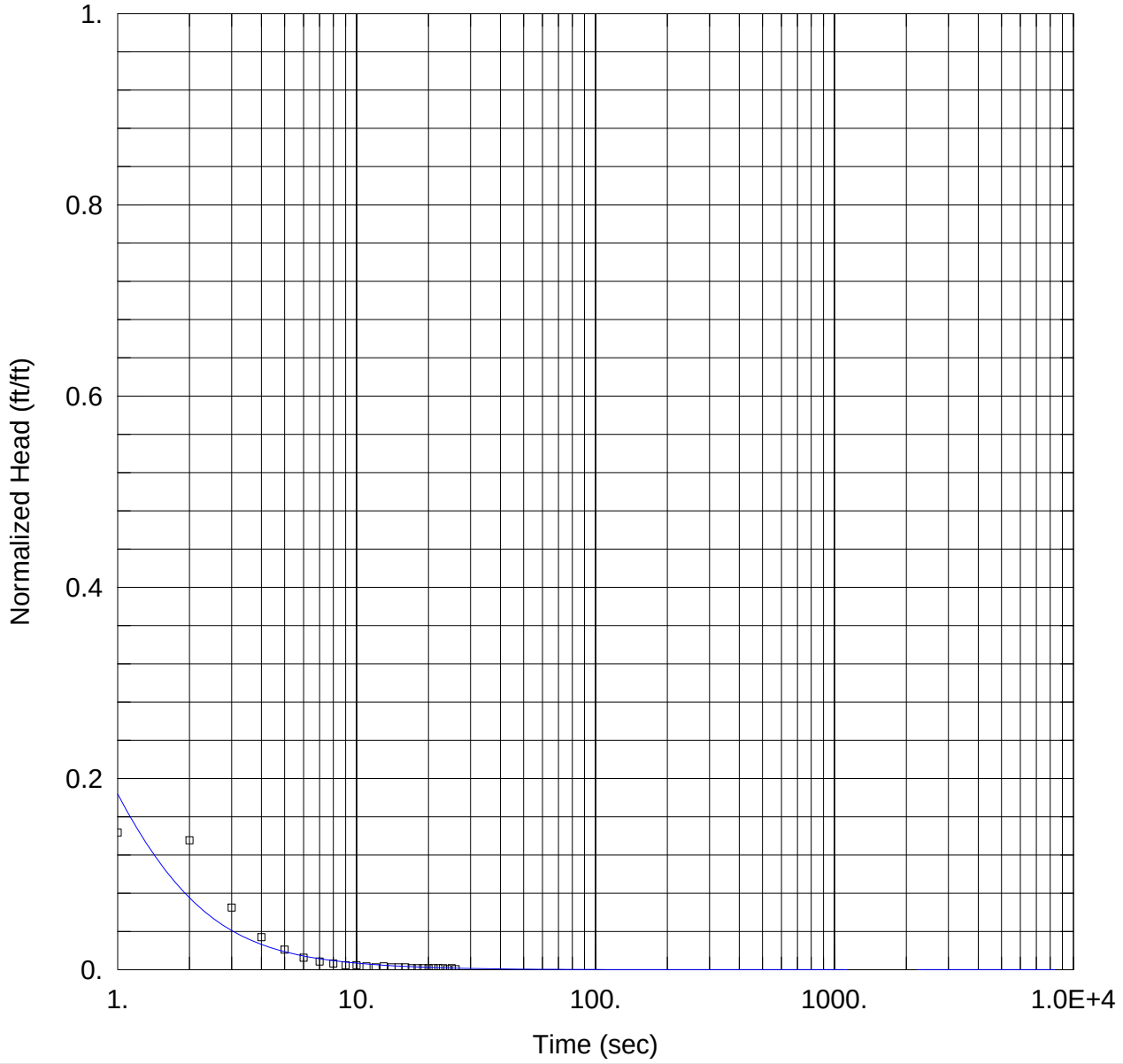
WELL DATA (FH1 MW-21)

Initial Displacement: 0.628 ft
Static Water Column Height: 14.47 ft
Total Well Penetration Depth: 14.5 ft
Screen Length: 10. ft
Casing Radius: 0.0853 ft
Well Radius: 0.0853 ft
Gravel Pack Porosity: 0.35

FIGURE 5-8

MW-21 Falling Head Test 2

Prepared By:	Prepared For:
EIC	GPA
Project:	Location:
400007 - 4.5	Bainbridge, GA



Data Set: Z:\...\FH2 MW-21 GPA Bainbridge.aqt
Date: 10/22/14 Time: 15:10:59

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.06195 cm/sec Ss = 0.001667 ft^{-1}
Kz/Kr = 1.

AQUIFER DATA

Saturated Thickness: 24.47 ft

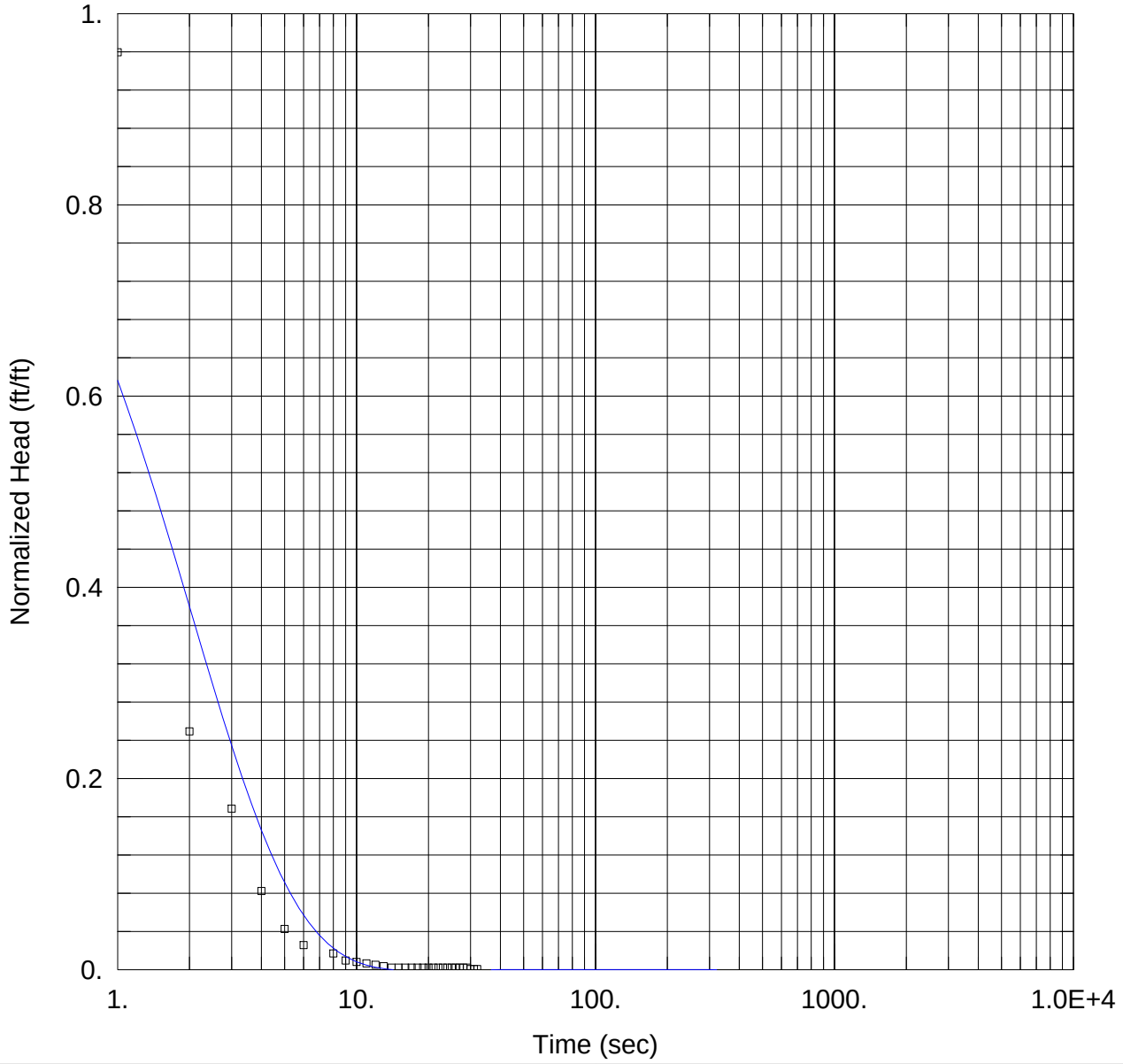
WELL DATA (FH2 MW-21)

Initial Displacement: 2.002 ft
Static Water Column Height: 14.47 ft
Total Well Penetration Depth: 14.5 ft
Screen Length: 10. ft
Casing Radius: 0.0853 ft
Well Radius: 0.0853 ft
Gravel Pack Porosity: 0.35

FIGURE 5-9

MW-21 Falling Head Test 3

Prepared By:	Prepared For:
EIC	GPA
Project:	Location:
400007 - 4.5	Bainbridge, GA



Data Set: Z:\...\FH3 MW-21 GPA Bainbridge.aqt
Date: 10/22/14 Time: 15:05:57

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.03502 cm/sec Ss = 1.667E-12 ft^{-1}
Kz/Kr = 1.

AQUIFER DATA

Saturated Thickness: 24.47 ft

WELL DATA (FH3 MW-21)

Initial Displacement: 1.36 ft
Static Water Column Height: 14.47 ft
Total Well Penetration Depth: 14.5 ft
Screen Length: 10. ft
Casing Radius: 0.0853 ft
Well Radius: 0.0853 ft
Gravel Pack Porosity: 0.35

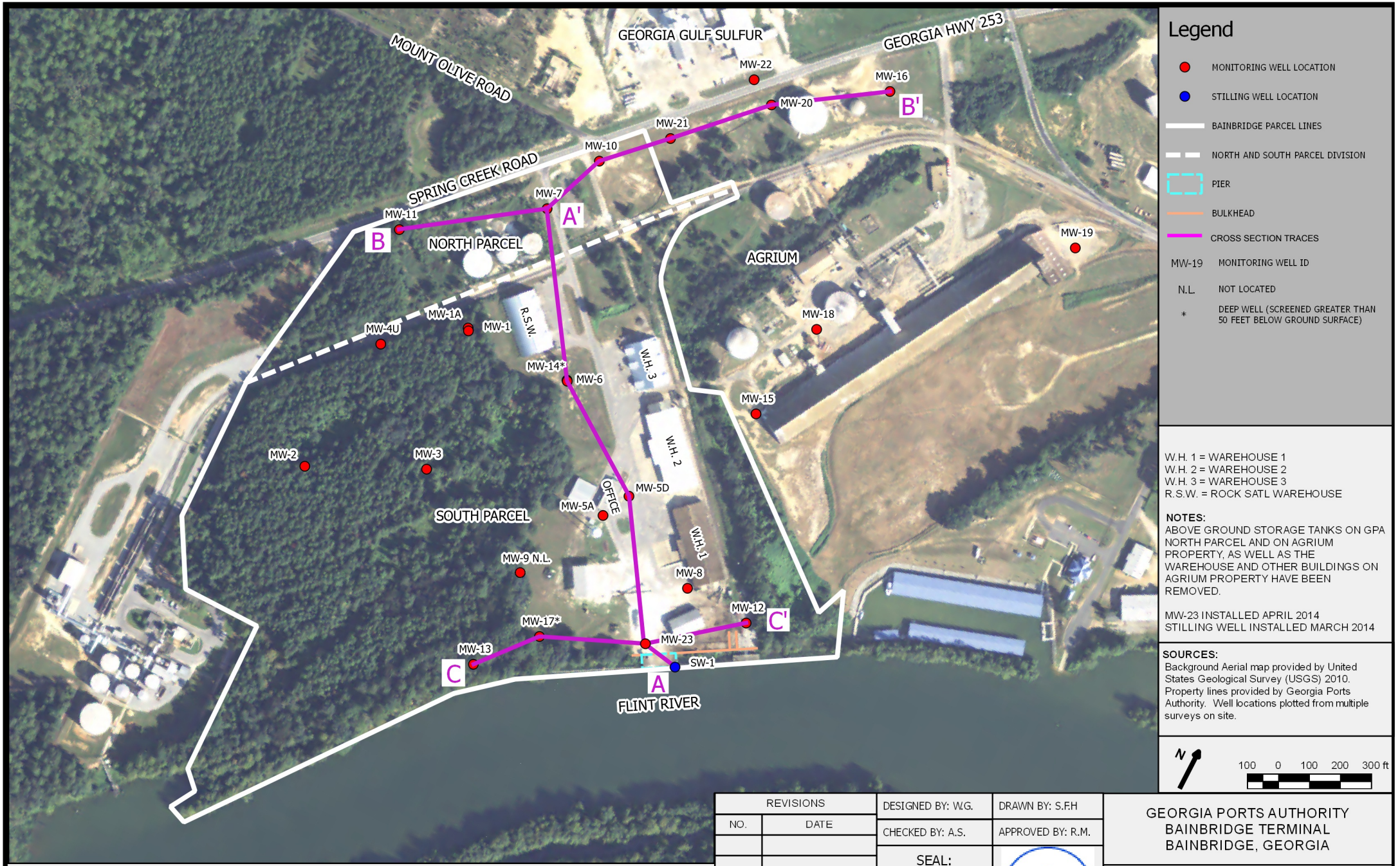
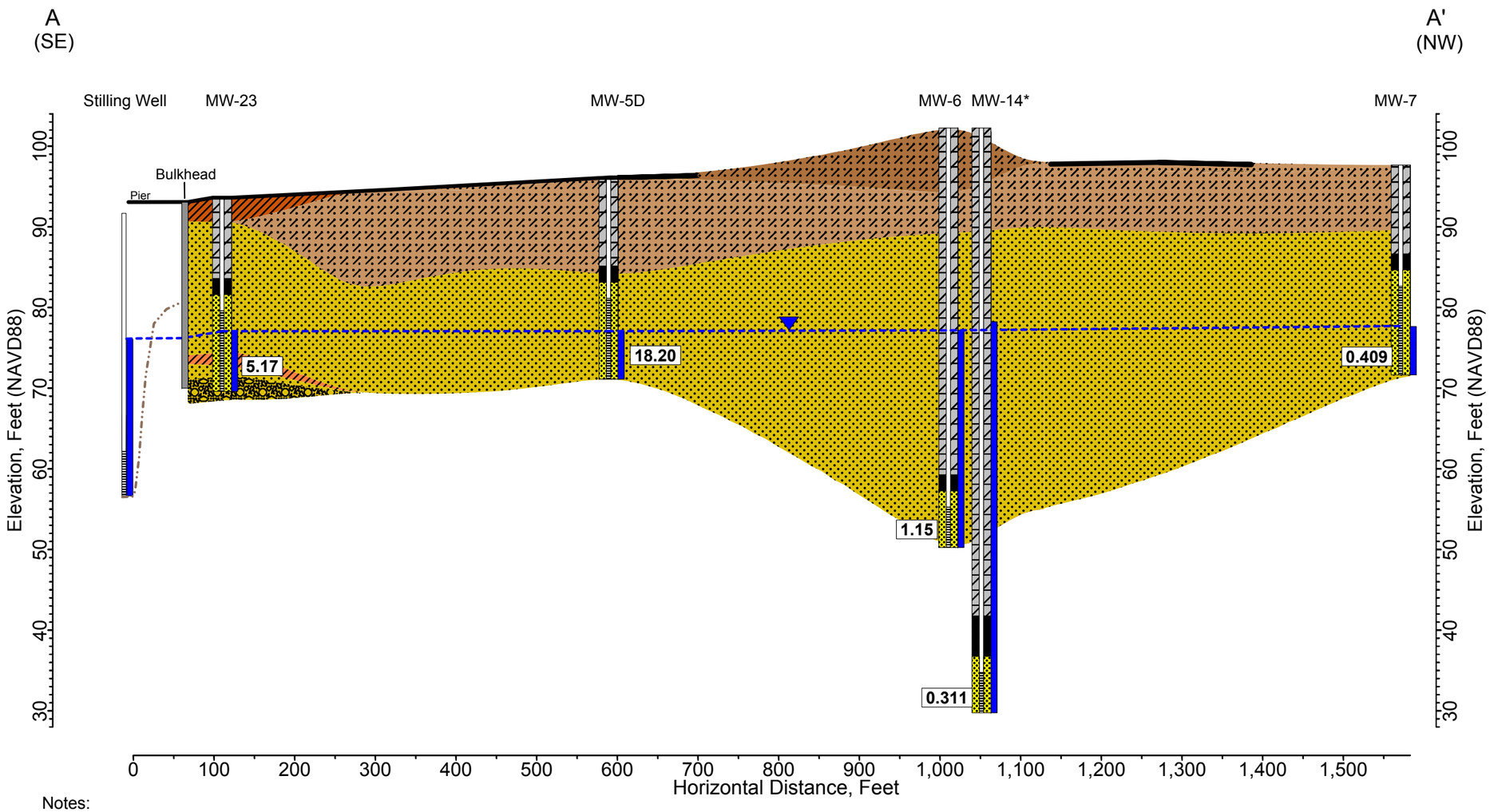


FIGURE 2-1: Hydrogeological Cross-Sections Trace Map

REVISIONS		DESIGNED BY: W.G.	DRAWN BY: S.F.H	GEORGIA PORTS AUTHORITY BAINBRIDGE TERMINAL BAINBRIDGE, GEORGIA	
NO.	DATE	CHECKED BY: A.S.	APPROVED BY: R.M.		
		SEAL:	EIC	ENVIRONMENTAL INTERNATIONAL CORPORATION 161 KIMBALL BRIDGE ROAD ALPHARETTA, GEORGIA 30009	
		Scale: SEE BAR	Date: 09/29/2014	File: 400007 - 4.5 - GPA BAINBRIDGE	SHEET NO.: 1

Figure 9-2: A-A' (Southeast to Northwest) Hydrogeological Cross-Section, GPA, Bainbridge, GA



Legend

Lithology

- BACKFILL (SAND WITH CLAY)
- CLAY
- ENGINEERED BACKFILL (CLAY)
- SAND
- SAND WITH CLAY
- SAND WITH GRAVEL

Well Construction

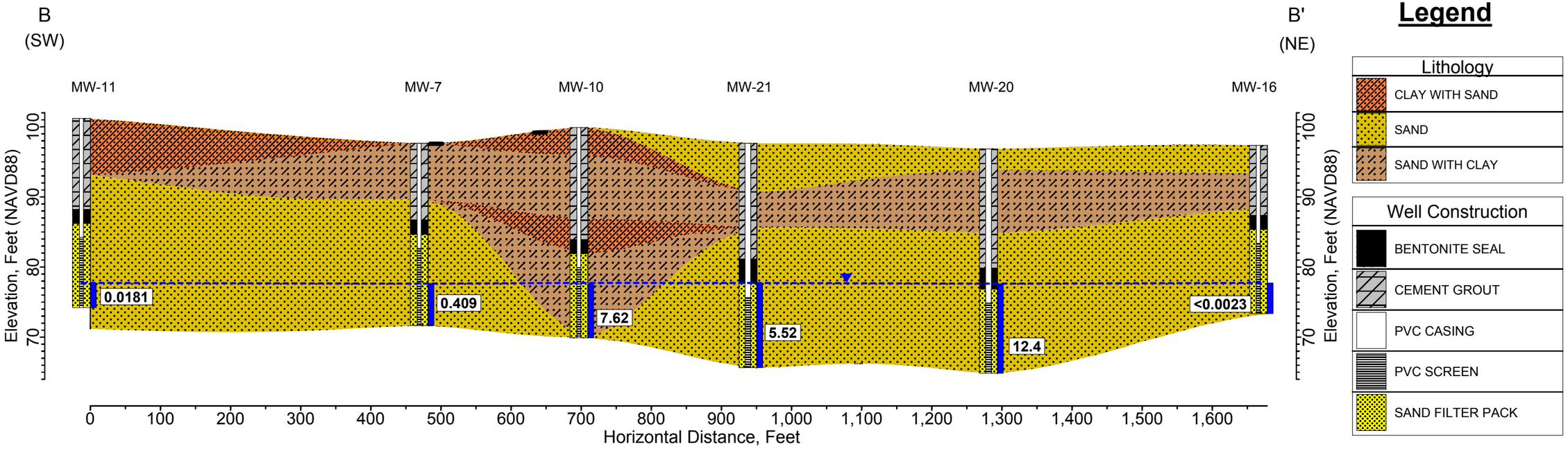
- BENTONITE SEAL
- CEMENT GROUT
- PVC CASING
- PVC SCREEN
- SAND FILTER PACK

- Estimated River Bottom/Bank
- Interpolated Water Surface (September 2014)
- Impermeable Surfaces
- Water Column (September 2014)
- Bulkhead
- 5.05 Beta-BHC Concentration September 2014 (ug/L)

Notes:
Hydrogeological cross section is based on lithological data logs and well construction diagrams prepared by various consultants for each monitoring well. Lithology was correlated utilizing Rockworks 2006 stratigraphy modeling software by Rockware. Bulkhead coordinates determined during EIC site survey, depth and approximate river bank elevation determined from Thomas and Hutton Engineers 1958 as-built drawing and 1956 Bulkhead and Pile Details, GPA reference 02-45-99-023 and 02-45-99-005. Bulkhead and well construction logs are horizontally exaggerated to show detail. All wells have a 2-inch diameter PVC casing.
*Lithology and groundwater level at MW-14 is not considered.

GEORGIA PORTS AUTHORITY BAINBRIDGE TERMINAL BAINBRIDGE GEORGIA	EIC	SEAL:	DESIGNED BY:	W.G.	DATE:	9/10/2014	FILE: 400007: 4.5
			DRAWN BY:	S.F.H	REVISION:	DATE:	SHEET NO.: 1 of 1
ENVIRONMENTAL INTERNATIONAL CORPORATION 161 KIMBALL BRIDGE ROAD ALPHARETTA, GEORGIA 30009			CHECKED BY:	A.S.			VERTICAL EXAGERATION = 10X
			APPROVED BY:	R.M.			

Figure 9-3: B-B' (Southwest to Northeast) Hydrogeological Cross-Section, GPA, Bainbridge, GA



Legend

Lithology
- CLAY WITH SAND
- SAND
- SAND WITH CLAY

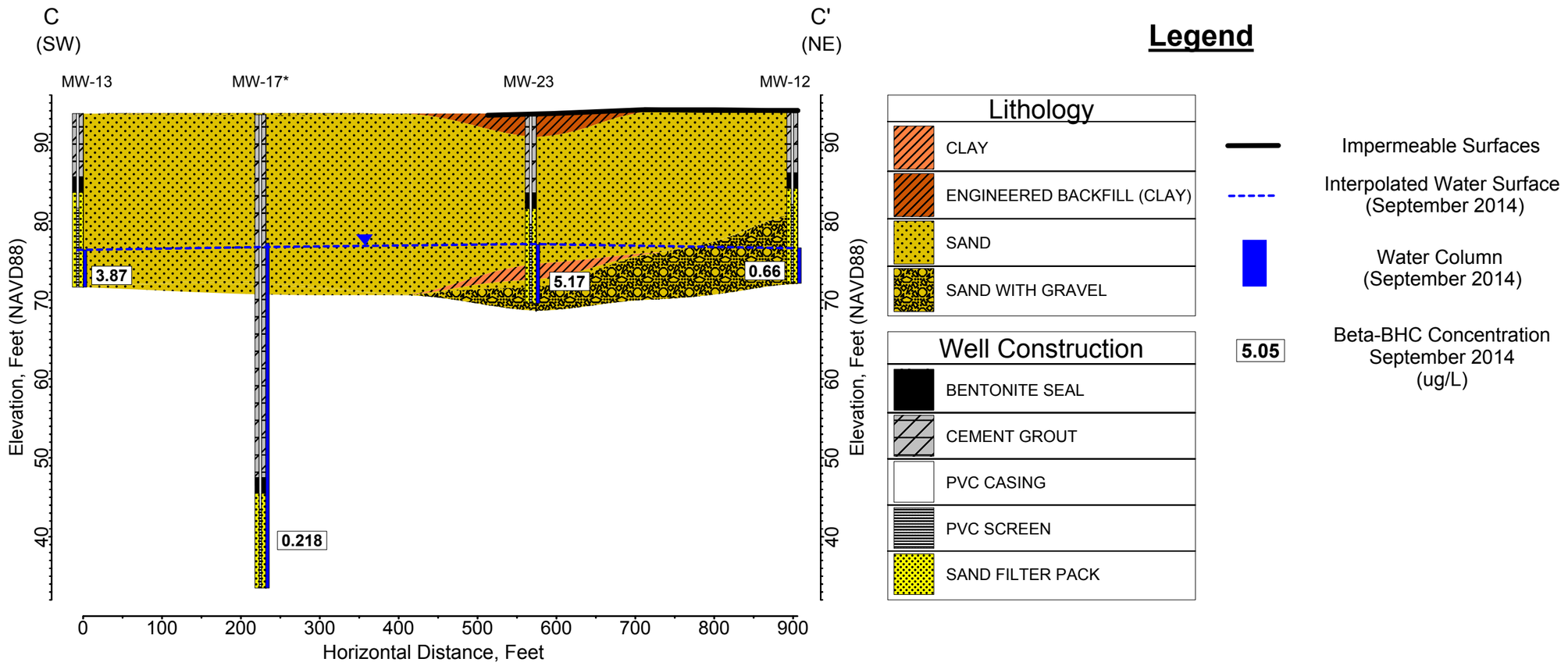
Well Construction
- BENTONITE SEAL
- CEMENT GROUT
- PVC CASING
- PVC SCREEN
- SAND FILTER PACK

- Impermeable Surfaces
- Interpolated Water Surface (September 2014)
- Water Column (September 2014)
- **5.05** Beta-BHC Concentration September 2014 (ug/L)

Notes:
Hydrogeological cross section is based on lithological data logs and well construction diagrams prepared by various consultants for each monitoring well. Lithology was correlated utilizing Rockworks 2006 stratigraphy modeling software by Rockware. Well construction logs are horizontally exaggerated to show detail. All wells have a 2-inch diameter PVC casing.

GEORGIA PORTS AUTHORITY BAINBRIDGE TERMINAL BAINBRIDGE GEORGIA	EIC	SEAL:	DESIGNED BY:	W.G.	DATE:	9/10/2014	FILE:	400007: 4.5
			DRAWN BY:	S.F.H	REVISION:	DATE:	SHEET NO.:	1 of 1
ENVIRONMENTAL INTERNATIONAL CORPORATION 161 KIMBALL BRIDGE ROAD ALPHARETTA, GEORGIA 30009			CHECKED BY:	A.S.			VERTICAL EXAGERATION = 10X	
			APPROVED BY:	R.M.				

Figure 9-4: C-C' (Southwest to Northeast) Hydrogeological Cross-Section, GPA, Bainbridge, GA



Notes:
Hydrogeological cross section is based on lithological data logs and well construction diagrams prepared by various consultants for each monitoring well. Lithology was correlated utilizing Rockworks 2006 stratigraphy modeling software by Rockware. Well construction logs are horizontally exaggerated to show detail. All wells have a 2-inch diameter PVC casing.
*Lithology and groundwater level at MW-17 is not considered.

GEORGIA PORTS AUTHORITY BAINBRIDGE TERMINAL BAINBRIDGE GEORGIA	EIC	SEAL:	DESIGNED BY:	W.G.	DATE:	9/10/2014	FILE:	400007: 4.5
			DRAWN BY:	S.F.H	REVISION:	DATE:	SHEET NO.:	1 of 1
ENVIRONMENTAL INTERNATIONAL CORPORATION 161 KIMBALL BRIDGE ROAD ALPHARETTA, GEORGIA 30009			CHECKED BY:	A.S.			VERTICAL EXAGERATION = 10X	
			APPROVED BY:	R.M.				

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

FOURTH VIRP SEMI-ANNUAL PROGRESS REPORT

PHOTOGRAPHS



Photograph 1: Geoprobe with 8-inch auger



Photograph 2: MW-23 soil boring core



Photograph 3: Completed MW-23 concrete pad



Photograph 4: Watera II pump with surging block



Photograph 5: Stilling well installation with transducer



Photograph 6: Slug test transducer probe setup



Photograph 7: PVC slug



Photograph 8: IDW drums in the south area near the bulkhead wall



Photograph 9: IDW drums in the north area near the rock salt warehouse

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

FOURTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT A

EIC March 2014 Well Purging and Sampling Field Logs

ENVIRONMENTAL INTERNATIONAL CORPORATION

PAGE 1 OF 1

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-1

DATE: 3/25/14 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny ~70°F, 2-5 mph wind NW

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): 26.45 FT. | TIME: 16:57 | 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.)
17:14	0	20.91	4.31	294	0.408	0.00	4.75	25.35	
17:20	1400	19.42	4.10	345	0.532	0.0	4.63	25.35	
17:26	2800	19.20	4.07	365	0.549	0.0	4.72	25.34	
17:32	4200	19.10	4.07	377	0.552	0.0	4.99	25.35	

COMMENTS:

SAMPLE COLLECTION TIME: 17:34

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.)	34
Initial tubing depth (ft.) BTOC	28
Final tubing depth (ft.) BTOC	28
Initial pump speed	7.07
Time pump speed was initialized	17:11
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	17:23	17:31							
Cummulative Volume (mL)	2100	4100							

Additional remarks: Replaced existing cap w/ new well cap

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-1A

DATE: 3/25/14 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny ~68°F, 5-7 mph wind NW

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): 25.45 FT. | TIME: 17.29 | 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.)
17:51	0	17.96	4.13	348	0.550	0.0	3.16	25.95	
17:56	1020	18:01	4.06	372	0.620	0.0	2.69	25.47	
18:01	2000	18:06	4.01	387	0.696	0.0	2.65	25.46	
18:06	2940	18.07	4.00	394	0.738	0.0	2.38	25.46	
18:12	4000	17.98	4.01	397	0.756	0.0	2.23	25.46	
18:17	5040	17.97	4.01	400	0.761	0.0	2.26		

COMMENTS:

SAMPLE COLLECTION TIME: 18:19

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.)	35
Initial tubing depth (ft.) BTOC	30
Final tubing depth (ft.) BTOC	30
Initial pump speed	7.02
Time pump speed was initialized	17:47
Pump speed at flow into cylinder	7.02
Started new roll of tubing at	yes
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	@18:01	18:12							
Cummulative Volume (mL)	2000	4000							

Additional remarks: replaced well cap w/ new cap

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-2

DATE: 3/25/2014 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: clear skies ~57°F

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): 19.03 FT. | TIME: 9:28 | 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.)
9:48	0	18.53	2.87	137	0.068	3.6	4.78	19.06	first pull clear
9:53	1130	17.48	4.88	250	0.065	0.0	4.41	19.06	clear in cylinder
9:58	2380	17.43	4.90	275	0.065	0.0	4.34	19.06	
10:03	3600	17.33	4.84	295	0.065	0.0	4.16	19.06	few air bubbles

COMMENTS:

SAMPLE COLLECTION TIME: 10:04

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.)	25.5
Initial tubing depth (ft.) BTOC	~~23~~ 22.3
Final tubing depth (ft.) BTOC	22.3
Initial pump speed	7.02
Time pump speed was initialized	9:46
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	9:56								
Cummulative Volume (mL)	2000								

Additional remarks: standing water ~50 ft to west is highest observed

8 x 3 = 24 ft

16 ft

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-3

DATE: 3/25/14 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: clear skies ~65°F 0-10 MPH gusts

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): 17.43 FT. | TIME: | 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.)
15:42	~~0~~ 160	19.97	5.65	180	0.065	0.0	6.97	17.44	First pull is clear
15:47	1260	19.48	5.59	209	0.064	0.0	6.52	17.44	clear in cylinder
15:52	2500	19.18	5.57	220	0.065	0.0	6.43	17.47	

COMMENTS:

SAMPLE COLLECTION TIME: 15:54

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
Initial tubing depth (ft.) BTOC	23
Final tubing depth (ft.) BTOC	23
Initial pump speed	7.02
Time pump speed was initialized	15:39
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	15:52								
Cummulative Volume (mL)	2500								

Additional remarks:

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-4U

DATE: 3/25/14 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: sunny ~70°F & ~0-2 mph NW

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): 23.7 FT. | TIME: 16:22 | 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.)
16:36	0	20.39	4.53	256	0.271	0.0	4.26	23.70	
16:41	1200	20.63	4.47	295	0.268	0.0	3.80	23.73	
16:46	2400	20.85	4.44	308	0.262	0.0	3.76	23.70	

COMMENTS:

SAMPLE COLLECTION TIME: 16:48

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.)	53.0
Initial tubing depth (ft.) BTOC	29
Final tubing depth (ft.) BTOC	29
Initial pump speed	7.04
Time pump speed was initialized	16:33
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	1644								
Cummulative Volume (mL)	2000								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-5A

DATE: 3/26/14 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: sunny ~ 65°F, 2-4 mph NW 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): 17.29 FT. TIME: 11:25 | 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.)
11:35	0	18.76	4.26	252	0.581	0.0	6.03	17.32	
11:40	1100	19.73	4.24	257	0.593	0.0	3.83	17.32	
11:45	2260	20.00	4.22	260	0.608	0.0	3.24	17.32	

COMMENTS:

SAMPLE COLLECTION TIME: 11:48

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.)	25.5
Initial tubing depth (ft.) BTOC	22.0
Final tubing depth (ft.) BTOC	22.0
Initial pump speed	~~8.08~~ 8 (WDG)
Time pump speed was initialized	11:33
Pump speed at flow into cylinder	8.08
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	11:43								
Cummulative Volume (mL)	2000								

Additional remarks: first pull is clear in tubing, air bubbles in tube near 11:43

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-5D

DATE: 3/26/14 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny ~65°F, 0-2 mph wind NW

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): 16.76 FT. | TIME: 11:59 | 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.)
12:12	180	17.25	5.32	211	2.120	16.0	16.01	16.77	
12:17	1220	17.83	5.00	206	1.95	0.0	2.52	16.78	
12:22	2460	18.45	4.06	239	1.90	0.9	1.15	16.78	
12:27	3580	18.63	3.63	265	1.90	0.0	0.83	16.78	
12:32	4720	18.81	3.53	272	1.88	0.0	0.70	16.78	
12:37	5900	18.83	3.52	275	1.89	0.0	0.64	16.78	
12:42	7100	18.91	3.53	275	1.87	0.0	0.60	16.78	

COMMENTS:

SAMPLE COLLECTION TIME: 12:44

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.)	24.5
Initial tubing depth (ft.) BTOC	21.0
Final tubing depth (ft.) BTOC	21.0
Initial pump speed	7.99
Time pump speed was initialized	12:09
Pump speed at flow into cylinder	7.99
Started new roll of tubing at	—
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	12:20	12:30	12:38						
Cummulative Volume (mL)	2000	4300	~~6000~~ 6300						

Additional remarks: Appears that rain water is pooling into well, first pull has suspended solids, afterwards pull is clear

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-6

DATE: 3/26/14 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Overcast ~66°F 0-5 MPH E 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): 22.66 FT. | TIME: 13:12 | 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)	REMARKS (COLOR, ODOR, ETC.)
13:35	0	21.00	5.75	112	1.48	97.0	2.68	23.05	first pull clear
13:41	440	21.09	5.71	84	1.57	100.0	1.59	23.06	brown tint + cloudy
13:45	~~560~~ 760	21.18	5.70	82	1.60	82.2	1.24	23.1	
13:50	1080	21.27	5.71	79	1.64	57.7	1.01	23.1	
13:55	1400	21.32	5.73	76	1.67	36.5	0.97	23.08	
14:00	1760	21.36	5.74	73	1.70	25.1	0.84	23.07	
14:05	2040	21.39	5.78	68	1.72	22.8	0.81	23.07	few bubbles in tube
14:10	2400	21.46	5.80	62	1.74	15.1	0.73	23.07	
14:15	2740	21.58	5.80	61	1.76	15.2	0.71	~~23.18~~ 23.08	

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.)	52
Initial tubing depth (ft.) BTOC	49
Final tubing depth (ft.) BTOC	49
Initial pump speed	7.12
Time pump speed was initialized	13:18
Pump speed at flow into cylinder	13.66
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	14:04								
Cummulative Volume (mL)	2000								

Additional remarks: Due to issues with silicone tubing and peristaltic pump, speed was increased

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-7

DATE: 3/26/14 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Scattered clouds, ~63°F 0-5 mph N. 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 26.00 FT.

INITIAL WATER LEVEL (BTOC): 18.04 FT. | TIME: 14:16 | BTOC WELL SCREEN INTERVAL: 14.50 FT. to 25.50 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 22.14 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.)
14:27	0	17.63	3.95	274	0.509	0.0	3.22	18.06	few organic particles in
14:32	1080	18.38	3.95	~~15~~281	0.519	0.0	1.91	18.06	first pull, rest clear
14:37	2100	18.75	3.93	238	0.531	0.0	1.58	18.06	
14:42	3120	18.95	3.91	284	0.544	0.0	1.63	18.06	

COMMENTS:

SAMPLE COLLECTION TIME: 14:44

PREPARED BY: Patric K 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.)	23.5
Initial tubing depth (ft.) BTOC	20.0
Final tubing depth (ft.) BTOC	20.0
Initial pump speed	6.05
Time pump speed was initialized	14:23
Pump speed at flow into cylinder	6.05
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	14:36								
Cummulative Volume (mL)	2000								

Additional remarks:

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-8

DATE: 3/26/2014 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Clear skies ~60°F 0-5 wind @ NE.

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): 14.34 FT. | TIME: 10:43 | 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)	REMARKS (COLOR, ODOR, ETC.)
10:54	Ø	17.54	4.03	242	0.713	14.4	5.62	14.35	first pull clear
11:00	1580	18.22	3.93	269	0.747	0.0	4.10	14.36	
11:05	2900	18.72	3.93	274	0.734	1.1	3.57	14.36	

COMMENTS:

SAMPLE COLLECTION TIME: 11:07

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.)	22.0
Initial tubing depth (ft.) BTOC	18.5
Final tubing depth (ft.) BTOC	18.5
Initial pump speed	8.00
Time pump speed was initialized	10:52
Pump speed at flow into cylinder	8.00
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	11:01								
Cummulative Volume (mL)	2000								

Additional remarks: standing water on top of well cap. TOC remarked in black on N. side

matrix spike collected

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-10

DATE: 3/26/14 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: clear skies, slightly hazy ~65°F 0-5 MPH N. Wind

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): 19.9 FT. | TIME: 15:59 | 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.)
16:14	0	20.12	3.93	268	.781	0.0	4.41	20.14	first pull clear
16:19	640	19.91	3.90	294	.818	0.0	3.36	20.18	clear in cylinder
16:25	1540	20.01	3.88	311	.827	0.0	1.89	20.29	
16:30	2260	20.16	3.88	320	.823	0.0	1.71	20.29	

180

COMMENTS: | SAMPLE COLLECTION TIME: A. Parker | PREPARED BY: 16:31

* 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.)	28.5
Initial tubing depth (ft.) BTOC	25.0
Final tubing depth (ft.) BTOC	25.0
Initial pump speed	7.01
Time pump speed was initialized	16:07
Pump speed at flow into cylinder	7.01
Started new roll of tubing at	—
Three well volume (mL)	—

@ 16:20 increased pump speed to 10.02 to compensate for larger silicone tubing size

2,000 mL volume poured into bucket:

Time	16:29								
Cummulative Volume (mL)	2080								

Additional remarks: began using 3/16" 1/4" silicone tubing, slower coming up tyle ~~that~~ but picked up speed once water got to pump rollers

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-11

DATE: 3/25/2014 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: clear skies sunny ~60°F 0-5 MPH breeze

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): 20.77 FT. | TIME: 10:29 | 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.)
10:43	Ø	16.54	4.73	284	0.198	7.6	4.97	20.79	first pull clear
10:48	1370	17.97	4.18	332	0.193	16.8	5.46	20.79	water is clear
10:53	2760	18.10	4.19	345	0.190	11.5	5.11	20.79	in cylinder
10:58	4100	18.2	4.19	351	0.190	6.7	5.06	20.79	

COMMENTS:

SAMPLE COLLECTION TIME: 10:59

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.)	26.0
Initial tubing depth (ft.) BTOC	24.0
Final tubing depth (ft.) BTOC	24.0
Initial pump speed	8.11
Time pump speed was initialized	10:40
Pump speed at flow into cylinder	8.11
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	10:50	10:58							
Cummulative Volume (mL)	2000	4100							

Additional remarks:

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WELL PURGING AND SAMPLING DATA LOG

DATE: 3/26/14	PROJECT NAME: GPA Bainbridge		WELL/SAMPLE NO: MW-12
WEATHER CONDITIONS: clear skies, sunny ~55°F no 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 22.00 FT.
INITIAL WATER LEVEL (BTOC): 15.55 FT.	TIME: 9:51	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.)
10:00	0	14.33	5.72	229	1.02	0.0	3.7	15.57	first pull clear
10:05	1660	17.65	6.08	218	1.03	6.5	1.75	15.55	
10:10	3220	17.98	6.02	216	1.06	8.5	1.51	15.57	
10:16	4900	18.41	5.95	215	1.07	0.0	1.42	15.57	
10:20	6080	18.64	5.93	213	1.07	0.0	1.38	15.57	

1,030

COMMENTS:

SAMPLE COLLECTION TIME: 10:21

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.)	22.0
Initial tubing depth (ft.) BTOC	19.0
Final tubing depth (ft.) BTOC	19.0
Initial pump speed	8.08
Time pump speed was initialized	9:57
Pump speed at flow into cylinder	8.08
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	10:06	10:114							
Cummulative Volume (mL)	2000	2900							

4400

Additional remarks:

replaced existing well cap with new cap

Traffic cone was placed on top of well vault

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-13

DATE: 3/26/14 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Hazy ~65°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): 15.24 FT. | TIME: ~~14:19~~ 17:09 | 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.)
17:20	0	18.30	4.79	247	0.473	0.0	3.62	15.27	first pull clear
17:25	~~1380~~ 980	18.04	4.85	235	0.474	0.0	1.44	15.27	
17:30	1960	17.92	4.91	144	~~0.433~~ 0.443	0.0	1.19	15.29	
17:35	2900	17.83	4.93	93	0.421	0.0	1.12	15.29	
17:40	3860	17.75	4.95	77	0.415	0.0	0.91	15.29	

1840

COMMENTS:

SAMPLE COLLECTION TIME: 17:41

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.)	19.5
Initial tubing depth (ft.) BTOC	16.0
Final tubing depth (ft.) BTOC	16.0
Initial pump speed	4.11
Time pump speed was initialized	17:16
Pump speed at flow into cylinder	4.11
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	17:30	17:41							
Cummulative Volume (mL)	2020	4020							

Additional remarks:

72
67
5
69

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-14

DATE: 3/25/14 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Clear skies, sun setting 5-15 MPH N. Wind ~50° F

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): 23.52 FT. | TIME: 18:49 | 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 Apx (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT)	REMARKS (COLOR, ODOR, ETC.)
19:01	~~17720~~	17.20	6.50	147	.278	10.8	3.04	23.21	first pull clear
19:06	1340	18.51	9.96	-190	.348	44.9	1.34	23.78	translucent brown
19:11	2680	18.21	9.44	-191	.320	35.1	1.07	24.02	color in cylinder
19:16	4040	18.20	8.17	-171	.303	19.1	0.89	24.11	
19:21	5380	18.29	7.75	-161	.291	13.2	0.82	24.14	
19:26	6700	18.58	7.68	-160	.286	9.4	0.76	24.17	water in cylinder
19:31	8000	18.55	7.56	-157	.281	7.4	0.73	24.18	is becoming clear
19:36	9340	18.36	7.47	-152	.275	~~0.7~~ 166	0.71	24.18	
19:41	10700	18.51	7.40	-148	.271	6.5	0.68	24.19	
19:46	11940	18.53	7.40	-146	.267	5.8	0.66	24.19	

COMMENTS:

SAMPLE COLLECTION TIME: 19:48

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.)	72
Initial tubing depth (ft.) BTOC	69
Final tubing depth (ft.) BTOC	69
Initial pump speed	8.02
Time pump speed was initialized	18:59
Pump speed at flow into cylinder	8.02
Started new roll of tubing at	
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	19:08	19:15	19:23	19:30	19:38				
Cummulative Volume (mL)	2000	4000	6000	8000	10100				

Additional remarks: Alan marked TOC on N. side w/ black marker
water 1/4" below TOC, boiled out

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-15

DATE: 3/26/14 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Clear skies ~48°F 0-5 MPH N. 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): 18.86 FT. | TIME: 8:48 | 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.)
9:01	0	16.57	5.44	260	5.04	0.0	3.45	19.14	couple pieces of organic matter in first pull
9:06	640	17.11	5.75	303	5.23	0.0	2.08	19.05	
9:11	1060	16.63	4.42	300	5.14	0.0	1.74	19.02	first ~3" brown tint, rest clear
9:16	1500	16.50	4.31	297	5.05	0.0	1.57	19.02	
9:21	1920	16.50	4.27	296	5.00	0.0	1.43	19.02	Clear in cylinder
9:26	2320	16.50	4.30	292	4.94	0.0	1.32	19.02	

COMMENTS:

SAMPLE COLLECTION TIME: 9:29

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.)	23.25
Initial tubing depth (ft.) BTOC	19.25
Final tubing depth (ft.) BTOC	id
Initial pump speed	5.05
Time pump speed was initialized	8:57
Pump speed at flow into cylinder	5.05
Started new roll of tubing at	
Three well volume (mL)	

@9:04 + 420 mL slowed pump to 2.99 due to bubbles in tubing and dropping water level

2,000 mL volume poured into bucket:

Time	9:22								
Cummulative Volume (mL)	2000								

Additional remarks:

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-16

DATE: 3/26/14 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: clear skies 0-5 MPH N. wind ~63°F

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): 17.16 FT. | TIME: 15:11 | 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.)
15:20	0	19.35	4.98	232	0.030	0.0	5.60	17.20	first pull clear
15:25	1340	19.46	4.94	235	0.030	0.0	5.13	17.20	few bubbles in tube
15:30	2680	19.59	4.96	236	0.030	0.0	4.99	17.20	

COMMENTS:

SAMPLE COLLECTION TIME: 15:32

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.)	24.5
Initial tubing depth (ft.) BTOC	21.0
Final tubing depth (ft.) BTOC	21.0
Initial pump speed	7.06
Time pump speed was initialized	15:17
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	15:28								
Cummulative Volume (mL)	2080								

Additional remarks: 1.5" of standing water 0.25" below TOC, bailed before purging began

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-17

DATE: 3/27/14 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny ~68°F, 0-5 mph wind SW

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

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

INITIAL WATER LEVEL (BTOC): 14.38 FT. | TIME: 16:11 | 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.)
16:13	200	19.84	6.48	105	0.303	30.0	3.67	14.35	
16:18	2860	19.83	7.34	41	0.430	58.7	0.93	14.36	light brown tint in cylinder
16:24	4380	19.83	7.46	21	0.409	48.1	0.69	14.35	
16:30	7680	19.73	7.49	8	0.410	15.5	0.56	14.35	
16:35	9340	19.70	7.50	2	0.413	9.6	0.48	14.35	

COMMENTS:

SAMPLE COLLECTION TIME: 16:36

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	8.50
Time pump speed was initialized	16:11
Pump speed at flow into cylinder	8.50
Started new roll of tubing at	yes
Three well volume (mL)	

16:21 rod @ 280 ml after speed changed to 7.05

2,000 mL volume poured into bucket:

Time	16:16	16:20	16:25	16:31					
Cummulative Volume (mL)	2000	4000	6000	8000					

Additional remarks:

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-18

DATE: 3/26/14 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Clear skies, sun rising ~45° F slight breeze from N.

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): 16.0 FT. | TIME: 8:03 | 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)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU)	DISS. OXYGEN. (mg/L)	DTW (FT)	REMARKS (COLOR, ODOR, ETC.)
8:14	Ø	19.67	6.77	155	1.87	0.0	3.96	16.02	First pull clear
8:19	1240	21.12	6.77	135	1.88	0.0	2.06	16.02	few bubbles in tube
8:24	2500	21.36	6.79	124	1.88	0.8	1.36	16.02	

COMMENTS:

SAMPLE COLLECTION TIME: 8:26

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.)	30.0
Initial tubing depth (ft.) BTOC	27.0
Final tubing depth (ft.) BTOC	27.0
Initial pump speed	7.0E
Time pump speed was initialized	8:12
Pump speed at flow into cylinder	7.08
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	8:23								
Cummulative Volume (mL)	2140								

Additional remarks: Replaced existing cap with new well cap

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-19

DATE: 3/25/14 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny ~ 65°F, 3-7 mph wind NW

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): 16.92 FT. | TIME: 11:27 | BTOC WELL SCREEN INTERVAL: 21.65 FT. to 31.65 FT.

MEASURED TOTAL WELL DEPTH (BGS): 32.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 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.)
11:38	0	17.41	4.32	296	1.420	555	2.46	16.93	air bubbles on
11:43	1200	19.52	4.22	276	1.420	538	2.38	16.93	first draw
11:49	2600	20.08	4.25	~~5273~~ 276	1.410	405	1.69	16.93	cloudy in cylinder
11:54	3400	20.19	4.25	274	1.400	329	1.84	16.93	
12:00	4620	20.27	4.27	275	1.400	244	1.34	16.91	
12:05	6660	20.33	4.28	277	1.390	180	1.16	16.92	
12:10	7900	20.43	4.29	278	1.390	145	0.99	16.93	
12:15	9140	20.53	4.30	279	1.390	125	0.94	16.92	
12:20	10320	20.52	4.31	282	1.380	95	0.85	16.93	

COMMENTS:

SAMPLE COLLECTION TIME: 12:22

PREPARED BY: Will Gant

* 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.)	30
Initial tubing depth (ft.) BTOC	26
Final tubing depth (ft.) BTOC	26
Initial pump speed	8.10
Time pump speed was initialized	11:36
Pump speed at flow into cylinder	8.11
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	11:49	11:56	12:04	12:13					
Cummulative Volume (mL)	2600	2000	2000	2000					

Additional remarks: standing water in well + well was pressurized. When well cap was removed air pressure was released

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-20

DATE: 3/27/14 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Partly cloudy, ~45°F 0-5 MPH N, Mild

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): 16.64 FT. | TIME: 8155 | 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.)
9:08	Ø	17.27	6.48	181	0.237	3.2	6.63	16.63	first pull clear
9:14	1420	17.40	4.38	294	0.247	0.0	7.11	16.63	few air bubbles
9:19	2560	17.53	4.37	302	~~0.0~~ 0.251	0.0	6.65	16.62	
9:24	3700	17.58	4.34	308	0.263	0.0	6.49	16.62	clear in cylinder

COMMENTS:

SAMPLE COLLECTION TIME: 9:25

PREPARED BY: Patrick Gibson

* 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.)	30.5
Initial tubing depth (ft.) BTOC	27.0
Final tubing depth (ft.) BTOC	27.0
Initial pump speed	7.02
Time pump speed was initialized	9:02
Pump speed at flow into cylinder	7.11
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	9:16								
Cummulative Volume (mL)	2000								

Additional remarks: PVC well cap was replaced with new Well cap

ENVIRONMENTAL INTERNATIONAL CORPORATION

PAGE ____ OF ____

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-21

DATE: 3/27/14 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Scattered clouds ~70°F 0-5 MPH SE 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): 17.57 FT. | TIME: 15:00 | 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.)
15:09	0	21.92	5.44	132	0.216	24.7	4.44	17.53	First pull Clear
15:14	1580	21.75	5.27	177	0.218	~~20~~ 30.9	4.40	17.53	
15:19	2840	21.73	5.27	184	0.220	42.6	4.57	17.53	few air bubbles in tube
15:24	4140	21.74	5.19	191	0.222	33.2	3.86	17.53	
15:30	5220	21.69	5.17	193	0.222	19.0	3.65	17.53	
15:35	6200	21.74	5.17	194	0.222	14.1	@ 3.55	17.53	

1740

COMMENTS:

SAMPLE COLLECTION TIME: 15:36

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.)	30.0
Initial tubing depth (ft.) BTOC	27.0
Final tubing depth (ft.) BTOC	27.0
Initial pump speed	7.05
Time pump speed was initialized	15:07
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	15:17	15:25	15:33						
Cummulative Volume (mL)	2400	4000	6000						

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-22

DATE: 3/27/14 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: partly cloudy ~50°F 0-5 MPH N. wind

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): 13.92 FT. TIME: 9:58 | 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.)
10:07	Ø	14.86	3.82	317	0.679	555	4.81	18.99	first pull clear
10:12	1280	16.23	3.84	333	0.688	292	4.35	18.99	water is cloudy in cylinder
10:18	2780	17.24	3.84	339	0.675	172	3.09	18.99	few bubbles
10:24	3490	17.75	3.85	344	0.657	83.6	2.48	18.99	
10:29	4640	18.09	3.86	348	0.650	40.5	3.02	18.99	
10:34	5740	18.35	3.86	352	0.649	21.6	3.08	18.99	
10:39	6920	18.5	3.86	356	0.650	9.9	2.99	18.99	

COMMENTS:

SAMPLE COLLECTION TIME: 10:40

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.)	31.0
Initial tubing depth (ft.) BTOC	29.0
Final tubing depth (ft.) BTOC	29.0
Initial pump speed	7.06
Time pump speed was initialized	10:04
Pump speed at flow into cylinder	7.06
Started new roll of tubing at	—
Three well volume (mL)	✓

Matrix spike collected

2,000 mL volume poured into bucket:

Time	10:15	10:26	10:36						
Cummulative Volume (mL)	2000	4000	6400						

Additional remarks: well was pressurized when cap was removed

At 10:23 realized pump ~~was it~~ had been switched into reverse, switched it back

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: Equipment Blank

DATE: 3/27/14	PROJECT NAME: GPA Bainbridge	PROJECT NO: 400007 - 4.5
WEATHER CONDITIONS: cloudy ~65°F 2-3 mph NW wind		
SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER		
WELL DIAMETER (IN.) [ ] 1 [ ] 2 [ ] 4 [ ] 6 [ ] OTHER	BGS WELL SCREEN INTERVAL: ____ FT. to ____ FT.	
INITIAL WATER LEVEL (BTOC): N/A FT. TIME: N/A	BTOC WELL SCREEN INTERVAL: ____ FT. to ____ FT.	
HISTORICAL TOTAL WELL DEPTH (BTOC): FT.	MEASURED TOTAL WELL DEPTH (BTOC) FT.	HEIGHT OF STICK-UP: 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.)
					N/A				

COMMENTS:

SAMPLE COLLECTION TIME: 16:56

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.)	10
Initial tubing depth (ft.) BTOC	—
Final tubing depth (ft.) BTOC	—
Initial pump speed	13.96
Time pump speed was initialized	16:50
Pump speed at flow into cylinder	—
Started new roll of tubing at	—
Three well volume (mL)	—

Teflon tubing

2,000 mL volume poured into bucket:

Time									
Cummulative Volume (mL)									

Additional remarks:

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

FOURTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT B

EIC September 2014 Well Purging and Sampling Field Logs

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

PAGE 1 OF 1

WELL/SAMPLE NO: MW-1

DATE: 9/4/2014 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Mostly cloudy, very humid, ~85°F, 15 mph 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): 27.71 FT. TIME: 10:39 | 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 ~~/ 8080 A / 6010 / 8056 A / RSK-175~~ S.H. | PH Meter: Thermo Scientific Russel RL060P #310011

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.)	Thermo P
10:57	0	25.05	3.81	298	0.552	0.0	3.26	27.71	Clear liquid in	3.36
11:02	1040	24.20	3.60	353	0.571	0.0	2.77	27.71	tubing (initial)	3.29
11:07	2000	23.85	3.70	359	0.603	0.0	3.35	27.71		3.39
11:12	2860	22.68	3.61	382	0.630	2.2	4.99	27.71		3.43
11:17	3780	23.21	3.70	382	0.630	4.5	4.99	27.71		3.44

COMMENTS:

SAMPLE COLLECTION TIME: 11:19

PREPARED BY: [signature]

* 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.

mark 30, cut 34

Length of tubing cut (ft.)	34
Initial tubing depth (ft.) BTOC	30
Final tubing depth (ft.) BTOC	30
Initial pump speed	7.10
Time pump speed was initialized	10:58
Pump speed at flow into cylinder	7.10
Started new roll of tubing at	—
Three well volume (mL)	—

Tubing needed:

32.01 − 27.71 = 4.30/2 = 2.15

32.01 − 2.15 = 29.86 (30)

2,000 mL volume poured into bucket:

Time	11:07	11:19							
Cummulative Volume (mL)	2000	4000							

Additional remarks: Remarked well name on side of metal casing for easy I.D.

Calibrated Thermo

7.0 = 7.01 4.0 = 4.01 10.0 = 10.01

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

PAGE 1 OF 1

WELL/SAMPLE NO: MW-1A

DATE: 9/4/2014 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Mostly cloudy, very humid, ~85° F / 5 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): 27.83 FT. | TIME: 11:36 | 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.

Mms. BTOC < 36.81

PURGING DEVICE: Pegasus Alexis Peristaltic Pump (wrong!) [ ] DEDICATED [ ] DISPOSABLE [ ] DECONTAMINATED

SAMPLING DEVICE: 1/4" Teflon lined tubing (Need to correct) [ ] 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~~ SF | PH Meter: Thermo Russel RL060P Serial # 310011

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.)	Thermo pH
11:54	0	~~26~~ 25.22	3.74	344	1.00	29.0	2.38	27.82	Initial water in	3.52
11:59	1160	23.09	3.61	366	0.863	28.3	2.14	27.82	tubing clear	3.55
12:04	2180	22.49	3.78	365	0.823	39.2	3.54	27.83		3.55
12:09	3120	22.51	3.68	375	0.813	40.6	3.61	27.83		3.55
12:14	4220	22.15	3.78	372	0.818	35.4	3.61	27.83		3.55

COMMENTS:

SAMPLE COLLECTION TIME: 12:17

PREPARED BY: Alan Clarke

* 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.

mark 32.5 cut 36.5

Length of tubing cut (ft.)	36.5
Initial tubing depth (ft.) BTOC	32.5
Final tubing depth (ft.) BTOC	32.5
Initial pump speed	6.99
Time pump speed was initialized	11:50
Pump speed at flow into cylinder	6.99
Started new roll of tubing at	—
Three well volume (mL)	—

Tubing Length

36.81
27.83
8.98/2
4.49

36.81
− 4.49
32.32

2,000 mL volume poured into bucket:

Time	12:03	12:13							
Cummulative Volume (mL)	2000	4000							

Additional remarks:

Mostly

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-2

DATE: 9/3/14 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: cloudy ~92°F ~no wind, very humid

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): 21.47 FT. | TIME: 8:22 | 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~~ SH | PH Meter: Thermo Russel RL060P serial # 310011

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.)
8:39	0	20.00	5.69	177	0.064	0.0	2.08	21.62	
8:44	2000	19.07	3.85	213	0.064	0.0	1.56	21.62	
8:50	4000	18.95	3.91	199	0.074	0.0	1.24	21.62	
8:55	5600	18.94	3.86	226	0.075	0.0	1.16	21.61	

COMMENTS:

SAMPLE COLLECTION TIME: 8:58

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.)	28
Initial tubing depth (ft.) BTOC	23.5
Final tubing depth (ft.) BTOC	23.5
Initial pump speed	9.03
Time pump speed was initialized	8:36
Pump speed at flow into cylinder	9.03
Started new roll of tubing at	—
Three well volume (mL)	11828

2,000 mL volume poured into bucket:

Time	8:44	8:50							
Cummulative Volume (mL)	2000	4000							

Additional remarks: first pull is clear.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

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DATE: 9/4/2014	PROJECT NAME: GPA Bainbridge		WELL/SAMPLE NO: MW-3
WEATHER CONDITIONS:	mostly cloudy, very humid, ~ 80°F, 0-5 mph 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:	15.00 FT. to 25.00 FT.
INITIAL WATER LEVEL (BTOC)	19 20.84 FT. TIME: 8:35	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 ~~/ 8060 A / 8010 / 8056 A / RSK-175~~	SH	PH Meter: Thermo Russel RL060P Serial# 3100 11	
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.)	Thermo PH
8:48	0	21.11	6.53	203	0.089	15.6	5.74	19.90	Ext Enitial water	4.98
8:51	1420	20.16	4.58	231	0.073	15.4	5.52	19.88	in tubing clear	4.65
8:56	2800	19.98	5.20	200	0.073	17.0	5.22	19.88		4.64
9:01	3940	19.98	4.65	231	0.072	17.5	4.97	19.88		4.74

COMMENTS:

SAMPLE COLLECTION TIME: 9:03

PREPARED BY: Adam Smith

* 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.)	28.5
Initial tubing depth (ft.) BTOC	24.50
Final tubing depth (ft.) BTOC	24.50
Initial pump speed	6.98
Time pump speed was initialized	8:43
Pump speed at flow into cylinder	6.98
Started new roll of tubing at	—
Three well volume (mL)	—

mark cut 24.5 28.5

Tubing Needed:

27.83 − 20.84 = 6.99/2 = 3.50

27.83 − 3.50 = 24.34

Thermo PH calibration:
4.00 → 4.01
7.00 → 7.01
10.00 → 10.0

2,000 mL volume poured into bucket:

Time	8:53	9:02							
Cummulative Volume (mL)	2000	2000							

Additional remarks: well concrete pad has been cracked apart due to GPA impacting it when clearing recently.

1940
2000

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

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WELL/SAMPLE NO: MW-4U

DATE: 9/4/2014 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Mostly cloudy, very humid, ~80°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: 16.00 FT. to 31.00 FT.

INITIAL WATER LEVEL (BTOC): 25.96 FT. TIME: 9:31 | 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~~ SH | PH meter; Thermo Russel RL060P serial # 310011

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.)	Thermo pH
9:45	0	23.54	4.27	236	0.181	0.0	5.56	25.98	- Initial water in	4.07
9:50	1140	20.92	4.08	281	0.193	0.0	5.07	25.98	Tubing is clear	3.78
9:55	2180	20.36	3.96	295	0.196	0.0	5.05	25.98	- Few air bubbles in tubing	3.75
10:00	3220	20.30	3.68	309	0.198	0.0	4.95	25.98		3.76

COMMENTS:

SAMPLE COLLECTION TIME: 10:02

PREPARED BY: Alan [signature]

* 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.

mark 29.5 cut 32.5

Length of tubing cut (ft.)	32.5
Initial tubing depth (ft.) BTOC	29.5
Final tubing depth (ft.) BTOC	29.5
Initial pump speed	7.04
Time pump speed was initialized	9:42
Pump speed at flow into cylinder	7.04
Started new roll of tubing at	—
Three well volume (mL)	—

Tubing needed

33.05 − 25.96 = 7.09/2 = 3.55

33.05 + 3.55 = 29.50

~~Thermo calibration~~

2,000 mL volume poured into bucket:

Time	9:54								
Cummulative Volume (mL)	2000								

Additional remarks: Remarked well on west side with black permanent marker

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

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DATE: 9/5/2014	PROJECT NAME: GPA Bainbridge
WELL/SAMPLE NO: MW-5A	PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Fair, Few clouds, ~ 75°F, Moderate humidity, < 5mph wind.

SAMPLE TYPE: ~~[X]~~ [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): 19.43 FT. TIME: 8:19

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~~ SH (Thermo Russel RL 0600 Serial # 31001)

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.)	Thermo PH
8:54	~~0~~ 300	24.23	4.02	285	0.855	144	1.69	19.50	Tan tint &	3.86
8:59	1630	23.88	3.96	302	0.838	0.0	1.55	19.50	cloudy (water	3.82
9:04	3300	23.84	4.03	308	0.829	0.0	1.47	19.50	in cylinder)	3.88

COMMENTS:

SAMPLE COLLECTION TIME: 9:07

PREPARED BY: [signature]

* 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.

March 23, Cat 24

Length of tubing cut (ft.)	24
Initial tubing depth (ft.) BTOC	23
Final tubing depth (ft.) BTOC	23
Initial pump speed	8:03
Time pump speed was initialized	8:52
Pump speed at flow into cylinder	8:03
Started new roll of tubing at	—
Three well volume (mL)	—

Tubing Needed:

26.20
19.43
6.77/2 = 3.385
~~[illegible]~~ 26.20
− 3.385
~~[illegible]~~ 22.8 (23)

Horiba calibration
pH = 4.02
SC = 4.53
NTU = ~~4~~ 0.1
DO = 9.51 mg/L
% DO = 120.8
Temp = 26.01

2,000 mL volume poured into bucket:

Time	9:01								
Cummulative Volume (mL)	2500								

Additional remarks: Collected equipment rinsate blank using 24" of tubing, 6" of silicon & 6" of teflon tubing prior to sampling at 8:30. Calibrated Thermo pH meter.

800
2500
3300

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

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WELL/SAMPLE NO: MW-5D

DATE: ~~9/3/14~~ 9/3/14 PROJECT NAME: GPA Bainbridge PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: ~82°F, Mostly Cloudy, very humid

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): 18.81 FT. TIME: 19:12

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~~ SH [X] Thermo Russel RL060P PH meter serial # 310011

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.)	Thermop.
19:22	0	26.34	3.98	288	1.07	12.10	2.38	19.06		4.02
19:27	1640	25.13	3.52	305	1.01	0.0	0.87	19.05		3.71
19:32	2940	24.97	3.45	305	0.993	0.0	0.74	19.05		3.61
19:37	4300	29.94	3.62	300	0.988	0.0	0.71	19.05		3.63

COMMENTS:

SAMPLE COLLECTION TIME: 19:40

PREPARED BY: Alan Smith

* 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
Initial tubing depth (ft.) BTOC	22
Final tubing depth (ft.) BTOC	22
Initial pump speed	7.99
Time pump speed was initialized	19:18
Pump speed at flow into cylinder	7.99
Started new roll of tubing at	Yes — 400' roll
Three well volume (mL)	

22 mark 26 cut

Tubing needed:

24.80 − 17.81 = 5.99/2 = 2.995

24.80 − 2.995 = 21.81 (22)

2,000 mL volume poured into bucket:

Time	19:28	19:36							
Cummulative Volume (mL)	2000	4000							

Additional remarks:

940

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

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WELL/SAMPLE NO: MW-6

DATE: 9/4/2014 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Pa Cloudy, Very humid, ~85°F, < 5 mph wind, T-storm in area

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): 24.86 FT. | TIME: 18:22 | 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~~ SH / Thermo Russel RL060P PH water Serial # 310011

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.)	Thermo pH
18:36	0	25.13	4.66	195	1.33	126	1.23	25.65	1st ~ 8" Turbid	4.21
18:41	980	24.35	4.70	190	1.39	115	0.72	25.96	& orange colored	4.81
16:46	1840	23.23	5.50	124	1.60	103	0.63	26.09	& clear ~~as~~	5.50
DTW 26.15 16:54	3400	23.13	5.72	73	1.77	100	1.71	26.15	following	5.62
19:00	4440	22.92	5.62	71	1.85	88.7	0.49	26.15		5.65
19:05	7420	22.84	5.70	65	1.87	86.0	0.66	26.15		5.63

COMMENTS:

SAMPLE COLLECTION TIME: 19:07

PREPARED BY: Alan [signature]

* 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.

	mark ~~52~~, cut ~~49~~ 51
Length of tubing cut (ft.)	~~49~~ 51
Initial tubing depth (ft.) BTOC	49
Final tubing depth (ft.) BTOC	49
Initial pump speed	7.05
Time pump speed was initialized	18:32
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	18:49	NM							
Cummulative Volume (mL)	2500	6500							

Additional remarks:

400
2500
3400

23.65
− 24.86

1940
2500
4440

920
6500
7420

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

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WELL/SAMPLE NO: MW-7

DATE: 9/3/2014 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: ~ 850 F, mostly cloudy, very humid, < 5 mph wind speed.

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): 20.52 BTOC FT. | TIME: 14:41 | BTOC WELL SCREEN INTERVAL: 14.50 FT. to 25.50 FT.

MEASURED TOTAL WELL DEPTH (BGS): ~ 22.26 ~~22.14~~ FT. ok | 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~~ SH / PH meter: Thermo Fessel RLP60P Serial # 710010

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.)
14:52	0	28.24	3.70	275	0.720	110	1.74	20.54	Dark tan colored
14:57	1220	24.23	3.55	286	0.937	0.0	1.60	20.55	few bubbles
15:02	2420	24.19	3.55	293	0.936	0.0	1.54	20.55	14:55 saw small
15:07	3680	24.29	3.45	304	0.928	0.0	1.47	20.55	amount of vegitation
									mat in cylinder
									sight pesticides
									odor

COMMENTS:

SAMPLE COLLECTION TIME: 15:09

PREPARED BY: Alan Jimmie

* 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.)	23.5
Initial tubing depth (ft.) BTOC	21.50
Final tubing depth (ft.) BTOC	21.50
Initial pump speed	7.00
Time pump speed was initialized	14:49
Pump speed at flow into cylinder	7.00
Started new roll of tubing at	—
Three well volume (mL)	3,707 (for 2 feet)

21.50 mark

23.5 (cut)

22.26
20.52
01.74

22.26
.75 (off bottom)
21.51

2,000 mL volume poured into bucket:

Time	15:00								
Cummulative Volume (mL)	2,000								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

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WELL/SAMPLE NO: MW-8

DATE: 9/3/2014 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Mc Cloudy, ~85° F, very humid, < 5 mph 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 23.00 FT.

INITIAL WATER LEVEL (BTOC): 16.32 FT. TIME: 18:12 | 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~~ SH (pH meter; Thermo Russel RL060P serial # 310011

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.)	Thermo pH
18:23	0	30.87	3.78	267	0.970	0.0	1.34	16.35	Initial water in	3.48
18:28	1580	27.94	3.69	282	0.788	0.0	1.14	16.35	tubing clear	3.51
18:33	3120	27.60	3.60	288	0.754	0.0	0.93	16.35		3.56
18:38	4600	27.47	3.73	293	0.759	0.0	1.04	16.35		3.68
18:43	6120	27.32	3.42	307	0.736	0.0	1.00	16.36		3.72
18:48	7780	27.23	3.41	311	0.730	0.0	1.29	16.35		3.71

COMMENTS:

SAMPLE COLLECTION TIME: 18:50

PREPARED BY: Alan Stark [signature]

* 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.)	23.5
Initial tubing depth (ft.) BTOC	19.5
Final tubing depth (ft.) BTOC	19.5
Initial pump speed	7.97
Time pump speed was initialized	18:21
Pump speed at flow into cylinder	7.97
Started new roll of tubing at	—
Three well volume (mL)	—

19.5 mark cut at 23.5

22.70
− 16.32
6.38/2
= 3.19

Tubing length
22.70
− 3.19
19.51

2,000 mL volume poured into bucket:

Time	2500	4500	7000						
Cummulative Volume (mL)	NM	18:32							

Additional remarks: ~~Thermo~~ Thermo pH probe was calibrated before these readings

620
2500
3120

1620
4500
6120

780

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

PAGE 1 OF 1

DATE: 9/3/14	PROJECT NAME: GPA Bainbridge	WELL/SAMPLE NO: MW-10	
WEATHER CONDITIONS: Cloudy, high humidity ~95°F		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: 20.00 FT. to 30.00 FT.	
INITIAL WATER LEVEL (BTOC): 22.25 FT.	TIME: 17:16	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 / ~~8060 A / 6010 / 8056 A / RSK-175~~ SH	pH Meter: Thermo Russel RL060P Serial # 310011		
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.)
17:26	380	26.22	3.71	348	0.879	0.0	2.08	22.57	
17:31	1920	23.81	3.68	265	0.899	0.0	1.78	22.75	
17:36	3,230	23.81	3.50	284	0.905	0.0	1.58	22.86	3.74
17:41	4,800	23.99	3.63	288	0.911	0.0	1.43	22.95	

Thermo pH
4.45
3.81
3.76

COMMENTS:

SAMPLE COLLECTION TIME: 17:43 Collected Duplicate sample as well.

PREPARED BY: Alan Smith

* 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	8.99
Time pump speed was initialized	17:21
Pump speed at flow into cylinder	8.99
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	17:32	17:38							
Cummulative Volume (mL)	2000	4000							

Additional remarks: - Bolts on well vault were just loosely resting on lid & not screwed in. Surveyors apparently didn't screw them in all the way during last trip.
- Powerful pegasus pump with variable inverter.

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

DATE: 9/3/14	PROJECT NAME: GPA Bainbridge	WELL/SAMPLE NO: MW-11
WEATHER CONDITIONS: mostly cloudy ~85°F; very humid; 5mph 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: 17.00 FT. to 27.00 FT.	
INITIAL WATER LEVEL (BTOC): 23.29 FT. TIME: 9:21	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 / ~~8060 A / 6010 / 9056 A / RSK-175~~ SM (Ppt Alk: ~~Phen~~ Reject Pt 8.3 ~~Forest Pt 3.10~~ SM		
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.)
~~9:33~~	0	21.46	3.87	243	0.186	0.0	3.79	~~23.35~~	Clear, no odor
9:39	1800	20.39	3.23	290	0.187	0.0	3.64	23.34	
9:44	2900	20.41	3.50	276	0.185	0.0	4.02	23.34	Few air bubbles in bag
9:49	4400	20.25	3.69	265	0.186	0.0	4.25	23.35	
9:54	5520	20.21	3.68	268	0.180	0.0	4.27	23.35	Few air bubbles
9:59	7200	20.17	3.38	284	0.181	0.0	4.28	23.35	
10:05	8440	20.21	3.28	286	0.183	0.0	4.98	23.35	
10:10	9800	20.25	3.16	305	0.181	0.0	4.95	23.35	
10:15	11440	20.19	3.36	295	0.182	0.0	4.90	23.35	
10:20	12320	20.16	3.25	269	0.189	0.0	4.79	23.35	
10:24	13400	20.20	3.30	~~300~~	0.182	0.0	4.85	23.35	

COMMENTS:

SAMPLE COLLECTION TIME: 10:25

PREPARED BY: Alan Smith will Sue

* 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	9.07
Time pump speed was initialized	9:31
Pump speed at flow into cylinder	9.07
Started new roll of tubing at	
Three well volume (mL)	~~13,000~~ 13,400

2,000 mL volume poured into bucket:

Time	9:40	9:49	9:55	10:02	10:11	10:19			
Cummulative Volume (mL)	2,000	4,000	6,000	8,000	10,000	12,000			

Additional remarks: Start up first gall is clear

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

PAGE 1 OF 1

WELL/SAMPLE NO: MW-12

DATE: 9/2/14 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: cloudy, ~95 °F, ~2 mph NE 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): 17.26 FT. | TIME: 19:40 | 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~~ SH | ~~Pitmeter: Thermo Russel RL060P Serial #: 310011 SH~~

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.)
19:50	0	25.90	6.45	132	0.612	0.0	~~X~~ 6.25	17.61	clear, no odor
19:55	1440	23.80	6.62	140	0.636	0.0	1.52	17.61	
20:00	3100	23.48	6.81	127	0.634	0.0	1.0	17.61	
20:05	4840	23.48	6.95	117	0.660	0.0	0.92	17.62	
20:10	5680	23.40	6.68	132	0.626	0.0	0.74	17.61	
20:15	7320	23.32	6.82	123	0.622	0.0	0.67	17.63	
20:20	8340	23.31	6.87	117	0.619	0.0	0.62	17.62	

COMMENTS:

SAMPLE COLLECTION TIME: 20:24 3 well volumes reached

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.)	23
Initial tubing depth (ft.) BTOC	19
Final tubing depth (ft.) BTOC	19
Initial pump speed	8.14
Time pump speed was initialized	19:47
Pump speed at flow into cylinder	8.14
Started new roll of tubing at	—
Three well volume (mL)	8324

2,000 mL volume poured into bucket:

Time	19:57	20:04	20:11	20:19	20:25				
Cummulative Volume (mL)	2000	4000	~~6000~~ 6200	8200	~~X~~ 10,200				

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

PAGE 1 OF 1

DATE: 9/2/14	PROJECT NAME: GPA Bainbridge
WELL/SAMPLE NO: MW-13	PROJECT NO: 400007 - 4.5
WEATHER CONDITIONS: ~92°F, Humid, c, 5mph wind SW, p. cloudy	
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): 16.97 FT. TIME: 14:07	BTOC WELL SCREEN INTERVAL: 11.70 FT. to 21.70 FT.
MEASURED TOTAL WELL DEPTH (BGS): 16.57 FT.	MEASURED TOTAL WELL DEPTH (BTOC) 22.05 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

Marks intsf: DTB: 22.22

Restarted pump see Remarks

VOL 3,460 Time 15:20

7380

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.)
14:38	0	24.73	6.81	187	0.522	0.0	2.96	16.97	clear color, no odor
14:43	620	23.60	5.11	202	0.506	0.0	2.34	16.98	
14:48	1,200	23.30	4.94	212	0.493	1.30	2.09	16.97	
14:53	1,760	23.06	4.87	214	0.489	8.2	1.98	16.98	
14:58	2,360	22.97	5.19	200	0.487	10.9	1.87	16.98	
15:03	2,880	23.08	5.13	209	0.487	12.2	1.85	16.99	
15:08	3,460	23.12	4.97	218	0.487	9.20	1.82	16.98	
15:13	4020	23.19	4.21	205	0.483	2.1	1.74	16.99	
15:18	4,760	23.61	5.03	216	0.490	0.0	1.71	16.98	
15:23	5130	23.74	4.95	226	0.489	0.0	1.71	16.98	
15:28	5680	23.66	4.75	237	0.479	0.0	1.72	16.97	
15:33	6500	23.17	5.19	211	0.473	0.0	1.68	16.98	
15:38	7380	23.11	4.84	228	0.468	0.0	1.67	16.98	
15:43	8320	23.26	5.15	206	0.466	0.0	1.67	16.99	
15:50	9280	23.97	4.84	227	0.457	0.0	1.53	16.98	
15:54	10,000	22.57	5.13	211	0.478	0.0	1.69	16.99	

COMMENTS: 10,000

SAMPLE COLLECTION TIME: 16:15 At 3 well vol.

PREPARED BY: Allen Arm

* 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	19
Final tubing depth (ft.) BTOC	19
Initial pump speed	4.21
Time pump speed was initialized	14:38
Pump speed at flow into cylinder	4.21
Started new roll of tubing at	—
Three well volume (mL)	9,267

Mark 19'; cut 23'

15:29 Increased pump speed to 6.03

2,000 mL volume poured into bucket:

Time	14:55	15:17	15:30	15:42	15:54				
Cummulative Volume (mL)	2,000	4,000	6,000	8,000	10,000				

Additional remarks: Initial water in tubing clear
14:33 – Stopped pump to start black o-rings in flow-through cell. Emptied cell.
14:35 – Restarted pump

380 1880

Diff. between 17:10 & 17:15 water levels

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-14

DATE: 9/4/2014 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Mostly cloudy, T-storms nearby, 5-10 mph wind, very humid, ~85°F

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): ~~N/A~~ 25.25 FT. | TIME: ~~N/A~~ N/A | 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 / ~~8060 A / 6010 / 9056 A / RSK-175~~ SH (Pitmeter, Thermo Russel RLobop Serial # 310011

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

MW Lacey 25.51 − 0.26 = ~~25.25~~ 25.25

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.)	Thermo
17:10	0	26.40	8.76	154	0.337	28.2	1.80	25.51		9.07
17:15	1320	23.09	7.32	139	0.380	13.3	1.09	25.75	water in cylinder	9.28
17:20	2480	22.61	9.31	34	0.353	7.91	0.85	25.35	was brown, tint	9.02
17:25	3660	22.56	8.83	28	0.336	25.6	0.73	25.87	& is cloudy	8.84
17:30	4800	22.48	8.39	19	0.328	36.1	0.64	25.87		8.72
17:35	~~VOL~~ 5940	22.42	8.38	6	0.321	23.8	0.60	25.87		8.54
	840									
17:40	5930	22.37	8.02	−80	0.315	18.0	0.55	25.84		8.21
17:45	5880	22.31	7.72	−152	0.~~98~~ 04	9.9	0.55	25.82	light brown tint	7.53
17:50	6900	22.31	7.39	−151	0.300	7.0	0.60	25.80		7.37
17:55	7740	22.29	7.24	−146	0.297	4.8	0.57	25.80		7.25
18:00	8500	22.28	7.09	−153	0.293	2.7	0.54	25.81		7.22
18:05	9420	22.27	7.51	−163	0.290	1.9	0.51	25.81		7.20

COMMENTS: | SAMPLE COLLECTION TIME: 18:09 | PREPARED BY: Allen Hamlin

* 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.

mark 69, cut 71

Length of tubing cut (ft.)	71
Initial tubing depth (ft.) BTOC	69
Final tubing depth (ft.) BTOC	69
Initial pump speed	7.02
Time pump speed was initialized	17:15
Pump speed at flow into cylinder	7.02
Started new roll of tubing at	
Three well volume (mL)	

71.85 − 2.5 (1/2 of 5' S (Feet)) = 69.35

2,000 mL volume poured into bucket:

Time	17:19	17:30	~~17:40~~	18:00					
Cummulative Volume (mL)	2000	4000	6500	8500					

Additional remarks: Thermo Serial #: 310011

~~2420~~ 1880 1240 6500 7740 920 8500 9420

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

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DATE: 9/3/14	PROJECT NAME: GPA Bainbridge
WELL/SAMPLE NO: MW-15	PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: ~95°F, mostly cloudy, very humid, <5 mph wind speed.

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): 20.76 FT. TIME: 13:25

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

DTB 21.51 Hard bottom

MEASURED TOTAL WELL DEPTH (**BGS**): 21.51 ~~20.71~~ FT. — from BTOC

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 / ~~8060 A / 6010 / 9056 A / RSK-175~~ CA

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.)
13:43	0	27.80	5.86	197	4.47	91.8	1.18	20.81	Light brown color Turbidity in tube
13:48	440	25.27	5.06	234	4.02	30.0	0.98	20.81	
13:53	940	25.01	4.61	247	3.87	9.0	0.87	20.81	
13:58	1340	24.81	4.40	248	3.77	8.0	0.85	20.81	
14:03	1790	24.75	4.24	250	3.77	8.0	1.75	20.81	→ 3 well vols

COMMENTS:

SAMPLE COLLECTION TIME: 14:04

PREPARED BY: Allen Kimble

* 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.)	23.40
Initial tubing depth (ft.) BTOC	21.40
Final tubing depth (ft.) BTOC	21.40
Initial pump speed *	3.01
Time pump speed was initialized	13:35
Pump speed at flow into cylinder	3.01
Started new roll of tubing at	—
Three well volume (mL)	~~1400~~

21.40 mark + ~~23.40~~ 22.70 cut used, as last piece cut Tubing is 0.11 ft off Bottom

2,000 mL volume poured into bucket:

Time									
Cummulative Volume (mL)									

Additional remarks: * ~~Recommend~~ Recommend that pump speed be increased to 7 during next sampling event as recharge is good.

Missing water

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

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WELL/SAMPLE NO: MW-16

DATE: 9/3/14 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Mostly cloudy, high humidity, ~90°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): 19.44 FT. | TIME: 15.54 | 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~~ 4H | pH meter: Thermo Russel RL060P serial # 310011

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.)	pH Thermo ~~[illegible]~~
16:06	0	30.56	4.78	236	0.027	0.0	5.37	19.48	1st water in	NM
16:11	1280	29.51	4.22	272	0.026	5.9	4.69	19.49		NM
16:16	2520	28.74	4.73	244	0.025	0.0	4.59	19.49		NM
16:21	3760	28.29	3.96	292	0.025	0.0	4.58	19.48		NM
16:26	4700	28.15	4.76	250	0.029	0.0	4.46	19.49		4.00
16:31	5880	28.22	4.00	295	0.025	0.0	4.43	19.49		4.50
16:36	6900	28.31	4.75	251	0.025	0.0	4.34	19.49		~~4.10~~ 4.5
16:41	7840	28.38	4.75	259	0.026	0.0	4.33	19.49		4.55

COMMENTS:

SAMPLE COLLECTION TIME: 16:45

PREPARED BY: Alan [illegible]

* 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.)	25.50
Initial tubing depth (ft.) BTOC	21.50
Final tubing depth (ft.) BTOC	21.50
Initial pump speed	7.12
Time pump speed was initialized	16:03
Pump speed at flow into cylinder	7.12
Started new roll of tubing at	—
Three well volume (mL)	—

mark 21.5
cut 23.5

23.80
19.44
4.36

Tubing needed

/2)

23.8 − (4.36 = 21.62

calibration of Thermo pH meter
4:00 standard = 4.01
7.00 " = 6.95
10.00 " = 10.01

2,000 mL volume poured into bucket:

Time	16:14	NM	16:35						
Cummulative Volume (mL)	2000	4500	6500						

Additional remarks: Bailed water out of vault. water level was ~ 1/4 inch above TOC. Brown/red bacterial in vault + film on surface

1340
6500
7840

4500
1380
5880

400

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

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DATE: 9/2/2014	WELL/SAMPLE NO: MW-17
PROJECT NAME: GPA Bainbridge	PROJECT NO: 400007 - 4.5
WEATHER CONDITIONS: ~92° F, Humid, <5 mph wind, P. Cloudy	
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): 16.40 FT. TIME: 15:13	BTOC WELL SCREEN INTERVAL: 49.55 FT. to 59.55 FT.
MEASURED TOTAL WELL DEPTH (**BGS**): 60.00 FT.	MEASURED TOTAL WELL DEPTH (BTOC) NM 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 / ~~8060 A / 6010 / 9056 A / RSK-175~~ SM	
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	0	28.35	6.54	-28	0.134	51	2.61	16.44	Clear in tubing
16	1200	27.30	6.83	19	0.165	27.8	1.36	16.44	1:47 water to cylinder was light brown tint, strong black pepper odor
16:54	2200	27.10	7.09	19	0.218	43.5	1.00	16.44	
16:59	3230	27.04	7.07	22	0.237	43.6	0.85	16.44	
17:04	4250	26.88	7.14	24	0.247	45.6	0.75	16.43	
17:09	5470	26.88	7.12	24	0.278	37.8	0.68	16.43	
17:14	5770	26.50	7.16	19	0.311	34.9	0.63	16.43	
17:19	7550	26.38	6.95	30	0.328	39.5	0.59	16.43	
17:24	8720	26.27	7.17	6	0.338	37.5	0.56	16.43	Purging this period at 1L/min
17:30	10,440	26.16	7.16	-5	0.344	33.1	0.53	16.43	
17:35	11,900	26.07	7.17	-21	0.358	26.8	0.52	16.43	stabilized
17:40	11,940	26.00	7.90	-21	0.375	20.4	0.50	16.43	sp. conductivity at 60%
17:45	13,040	25.96	7.18	-67	0.386	16.5	0.49	16.43	
17:50	14,120	25.93	7.15	-83	0.376	13.1	0.48	16.43	
17:50	15,240	25.84	7.17	-116	0.401	11.1	0.48	16.43	

COMMENTS: Pt ID not stabilized but 60% with sampling to final constants

SAMPLE COLLECTION TIME: 17:56

PREPARED BY: Adam Krupp

* 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.)	~~59~~ 60
Initial tubing depth (ft.) BTOC	55
Final tubing depth (ft.) BTOC	55
Initial pump speed	6:52
Time pump speed was initialized	16:41
Pump speed at flow into cylinder	6:52
Started new roll of tubing at	—
Three well volume (mL)	✓

- Added 1 ft because TAC = 1 ft below GS.

volume calculation

1440
10500
11940

540
1620
12500
14120

2,000 mL volume poured into bucket: 16:54 NM 17:12

Time								
Cummulative Volume (mL)	2150	4150	6150	8500	10,500	12,500	15,000	

Additional remarks: Put new lock on well cap

4250
1220
5470

1220 volume calc

3080
150
3230

~~4420~~
3420
16,140

1420
8500
9920

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

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WELL/SAMPLE NO: MW-18

DATE: 9/4/2014 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: ~90° F, very humid, mostly cloudy, 5 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): 18.13 FT. | TIME: 14:47 | 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~~ SM | pH meter: Thermo Russel RL-060P serial # 310011

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.)	Thermo pH
14:58	0	26.76	5.75	252	1.83	1.8	1.75	18.13	Clear liquid (initial)	6.05
15:03	1220	25.82	6.23	235	1.91	3.6	0.91	18.13		6.12
15:08	2480	25.68	6.31	224	1.92	3.7	0.7	18.12		6.19
15:13	X3620	25.62	6.27	221	1.91	0.8	0.6	18.13		6.18

COMMENTS:

SAMPLE COLLECTION TIME: 15:15 Collected matrix spike also

PREPARED BY: Alan Franks

* 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.

mark 25, cut 27

Length of tubing cut (ft.)	27
Initial tubing depth (ft.) BTOC	25
Final tubing depth (ft.) BTOC	25
Initial pump speed	7.06
Time pump speed was initialized	14:56
Pump speed at flow into cylinder	7.06
Started new roll of tubing at	—
Three well volume (mL)	—

Tubing needed

32.00
18.13

3200
− 700
25.00

13.87/2 = 6.935 (7)

2,000 mL volume poured into bucket: 15:06

Time	~~15~~								
Cummulative Volume (mL)	2000								

Additional remarks: Collected matrix spike. When opened well, air underpressure flowed out from well.

Thermo calibration 4:00 = 4.01, 7.00 = X → 7.01 10:00 = 10.01 ~~16.20~~

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

DATE: 9/3/2014	PROJECT NAME: GPA Bainbridge	WELL/SAMPLE NO: MW-19	
WEATHER CONDITIONS:	Partly cloudy, rainy, very windy, ~95 mph, 15 mph 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: 22.00 FT. to 32.00 FT.	
INITIAL WATER LEVEL (BTOC): 19.21 FT.	TIME: 15:47	BTOC WELL SCREEN INTERVAL: 21.65 FT. to 31.65 FT.	
MEASURED TOTAL WELL DEPTH (BGS): 32.00 FT.	MEASURED TOTAL WELL DEPTH (BTOC) 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 / ~~8060 A / 6010 - / 9056 A / RSK-175~~ SH	PH Meter: Thermo Russel RL060P	Serial #: 7100H	
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.)
15:57	0	28.20	4.14	260	1.24	16.3	3.26	19.22	
16:02	1220	26.44	3.93	310	1.30	7.0	0.97	19.22	
16:08	2700	25.77	3.91	307	1.32	6.2	0.71	19.22	
16:12	3640	25.69	3.90	313	1.32	5.2	0.63	19.22	

Thermo pH
3.88
3.67
3.69
3.73

COMMENTS:

SAMPLE COLLECTION TIME: 16:14

PREPARED BY: Adam Jamilk

* 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.

mark 25.5 cut 27.5

Length of tubing cut (ft.)	27.5
Initial tubing depth (ft.) BTOC	25.5
Final tubing depth (ft.) BTOC	25.5
Initial pump speed	7.06
Time pump speed was initialized	15:54
Pump speed at flow into cylinder	7.06
Started new roll of tubing at	—
Three well volume (mL)	—

Tubing Length

31.65 − 19.21 = 12.44 / 2 = 6.22

31.65 − 6.22 = 25.43 (25.5)

2,000 mL volume poured into bucket:

Time	16:07								
Cummulative Volume (mL)	2500								

Additional remarks: * Air under slight pressure when removed well cap. Could not screw cap back on as the gas escaped. Applied T-B wrap around top to prevent water entering vault. Bailed water out of vault. water level was ~1 inch above TOC.

1140
2500
30°C

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

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WELL/SAMPLE NO: MW-20

DATE: 9/5/2014 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 415

WEATHER CONDITIONS: ~90°, Fair - Few clouds, Humid, ~5 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): 19.00 FT. | TIME: 10:59 | 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~~ SH | PH meter: Thermo Russel RL060P Serial #: 710011

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.)	Thermo pH
11:11	0	24.03	4.31	158	0.263	0.0	8.5	~~3.92~~	19.01 (water clear initially)	3.92
11:16	1360	22.72	3.90	248	0.351	0.0	7.60	19.01		3.77
11:21	2420	22.58	3.86	271	0.372	0.0	7.42	19.01		3.81
11:26	3640	22.52	3.86	281	0.380	0.0	7.16	19.01		3.84
11:31	4740	22.50	3.87	290	0.384	0.0	7.12	19.01		3.95
11:36	5900	~~25.~~ 22.50	3.81	297	0.390	0.0	6.97	19.01		3.99
11:41	7200	23.44	3.84	304	0.394	0.0	6.74	19.01		3.89
										3.89

COMMENTS:

SAMPLE COLLECTION TIME: 11:46

PREPARED BY: Alan [signature]

* 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.)	24.20
Initial tubing depth (ft.) BTOC	24.00
Final tubing depth (ft.) BTOC	24.00
Initial pump speed	7.04
Time pump speed was initialized	~11:00
Pump speed at flow into cylinder	7.04
Started new roll of tubing at	—
Three well volume (mL)	—

Tubing meter

31.75 − 19.00 = 12.75/2 = 6.38

31.75 − 6.38 = 25.5

Have 24.2 ft of new tubing left

2,000 mL volume poured into bucket:

Time	11:19	11:28	11:37						
Cummulative Volume (mL)	2000	4000	6000						

Additional remarks: Difficult to remove 2 bolts from well vault

1640

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

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WELL/SAMPLE NO: MW-21

DATE: 9/5/2014 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Fair - very few clouds, ~80° F, Humid, < 5 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): 20.02 FT. | TIME: 9:55 | 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~~ 5 H | PH meter: Thermo Russel RL060P serial #: 310011

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.)	Thermo pH
10:11	0	28.07	4.28	206	0.459	0.0	8.14	20.03	Clear - initial water	4.04
10:16	1340	26.18	4.07	252	0.691	0.0	4.67	20.04		3.83
10:21	2490	25.49	4.04	264	0.784	0.0	4.52	20.04		3.84
10:27	3960	25.46	3.96	279	0.871	0.0	4.37	20.05		3.80
10:31	5000	25.18	3.94	288	0.884	0.0	4.32	20.05		3.79
10:36	6000	25.15	3.83	305	0.889	0.0	4.24	20.05		3.80

COMMENTS:

SAMPLE COLLECTION TIME: 10:39

PREPARED BY: [signature]

* 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.

mark 26, cut 27.

Length of tubing cut (ft.)	27
Initial tubing depth (ft.) BTOC	26
Final tubing depth (ft.) BTOC	26
Initial pump speed	7.13
Time pump speed was initialized	10:08
Pump speed at flow into cylinder	7.13
Started new roll of tubing at	—
Three well volume (mL)	—

Tubing needed:

31.93 − 20.02 = 11.91/2 = 5.955

31.93 − 5.955 = 25.98

2,000 mL volume poured into bucket:

Time	10:19	10:28							
Cummulative Volume (mL)	2000	4000	6000						

Additional remarks: ~~[illegible]~~ tubing. Concrete pad is loose

1960

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

PAGE 1 OF 1

WELL/SAMPLE NO: MW-22

DATE: 9/5/2014 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: ~950F, Humid, Few clouds, 0-5 mph wind.

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): 21.31 FT. | TIME: 12:03 | 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~~ SH | PH meter: ~~Rx~~ SH Thermo Rachel RL-060P serial #: 310011

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.)	Thermo PH
12:14	0	28.23	3.93	293	0.678	0.0	2.15	21.39	Initially clear	3.66
12:19	1380	26.04	3.84	326	0.693	0.0	2.08	21.39	liquid in tubing	3.56
12:24	2560	25.73	3.83	337	0.697	0.0	2.90	21.37		3.64

COMMENTS:

SAMPLE COLLECTION TIME: 12:27 collected matrix spike

PREPARED BY: Alan Crook

* 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.

mark 29, cut 30

Length of tubing cut (ft.)	30
Initial tubing depth (ft.) BTOC	29
Final tubing depth (ft.) BTOC	29
Initial pump speed	7.02
Time pump speed was initialized	12:11
Pump speed at flow into cylinder	7.02
Started new roll of tubing at	—
Three well volume (mL)	—

33.80
− 5.00 (1/2 screen)
28.80
(29)

2,000 mL volume poured into bucket:

Time	12:21								
Cummulative Volume (mL)	2000								

Additional remarks: Utilized tubing that was utilized in MW-6 after it was deconed with DI water. ~~Water~~ No standing water in adjacent drainage ditch.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

PAGE 1 OF 1

DATE: 9/2/2014	PROJECT NAME: GPA Bainbridge
WELL/SAMPLE NO: MW-23	PROJECT NO: 400007 - 4.5
WEATHER CONDITIONS: mostly cloudy, ~90°F, 0-5 mph wind, very humid	
SAMPLE TYPE: [X] GROUNDWATER [ ] WASTEWATER [ ] SURFACE WATER [ ] OTHER	
WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER	BGS WELL SCREEN INTERVAL: 13.83 FT. to 23.83 FT.
INITIAL WATER LEVEL (BTOC): 16.58 FT. TIME: 16:47	BTOC WELL SCREEN INTERVAL: 13.83 FT. to 23.83 FT.
MEASURED TOTAL WELL DEPTH (BGS): 24.03 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 / ~~8060 A / 6010 / 9056 A / RSK~~-175 GW	
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.)
18:21	0	27.87	4.12	139	1.05	20.1	2.05	16.60	Clear water
18:26	1200	26.69	3.84	185	1.07	9.9	1.27	16.59	
18:31	2520	26.63	4.00	159	1.07	0.0	0.95	16.59	
18:36	3780	26.65	4.02	163	1.06	0.0	0.83	16.59	
18:41	5320	26.65	4.09	163	1.08	0.0	0.74	16.59	
18:46	6440	26.58	4.12	172	1.06	0.0	0.71	16.59	
18:51	7840	26.55	4.34	163	1.05	0.0	0.66	16.59	
18:56	8820	26.58	4.32	156	1.05	0.0	0.62	16.59	
19:01	10080	26.50	4.38	147	1.04	0.0	0.60	16.59	19:04 Ora odor
19:06	11760	26.45	4.63	155	1.04	0.0	0.58	16.59	
19:11	13080	26.47	4.67	154	1.04	0.0	0.55	16.59	3 well volume

COMMENTS:

SAMPLE COLLECTION TIME: 19:17 3 well volume

PREPARED BY:

* 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.)	24.5
Initial tubing depth (ft.) BTOC	20.5
Final tubing depth (ft.) BTOC	20.5
Initial pump speed	6.97
Time pump speed was initialized	18:19
Pump speed at flow into cylinder	6.97
Started new roll of tubing at	—
Three well volume (mL)	—

(rounded) 20.5 mark int 24.5

23.83 − 16.58 = 7.25

7.25/2 = 3.625

23.83 − 3.625 = 20.205

580

12500 / 589

2,000 mL volume poured into bucket:

Time	18:29	18:43	NM	18:54	19:03	19:11			
Cummulative Volume (mL)	2,000	4500	6,500	8,500	10,500	12,500			

Additional remarks:

Volume calcs: 1040 + 6500 = 7540

460

1780

820 + 4500 = 5320

1120 + 4500 = 6420

80500 + 320 = 80820

1500 + 8500 = 10,000

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

FOURTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT C

March 2014 Groundwater Analytical Results

Analytical Report 482272

for

Environmental International Corporation

Project Manager: Will Grant

GPA Bainbridge

400007-4.5

18-SEP-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 (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

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

18-SEP-14

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

Reference: XENCO Report No(s): **482272**
GPA Bainbridge
Project Address: GA

Will Grant:

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) 482272. 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. 482272 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 482272

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	03-25-14 17:34		482272-001
MW-1A	W	03-25-14 18:19		482272-002
MW-2	W	03-25-14 10:04		482272-003
MW-3	W	03-25-14 15:54		482272-004
MW-4U	W	03-25-14 16:48		482272-005
MW-5A	W	03-26-14 11:48		482272-006
MW-5D	W	03-26-14 12:44		482272-007
MW-6	W	03-26-14 14:17		482272-008
MW-7	W	03-26-14 14:44		482272-009
MW-8	W	03-26-14 11:07		482272-010
MW-10	W	03-26-14 16:31		482272-011
MW-11	W	03-26-14 10:59		482272-012
MW-12	W	03-26-14 10:21		482272-013
MW-13	W	03-26-14 17:41		482272-014
MW-14	W	03-25-14 19:48		482272-015
MW-15	W	03-26-14 09:29		482272-016
MW-16	W	03-26-14 15:32		482272-017
MW-17	W	03-27-14 16:36		482272-018
MW-18	W	03-26-14 08:26		482272-019
MW-19	W	03-25-14 12:22		482272-020
MW-19 Duplicate	W	03-27-14 12:22		482272-021
MW-20	W	03-27-14 09:25		482272-022
MW-21	W	03-27-14 15:36		482272-023
MW-22	W	03-27-14 10:40		482272-024
Equipment Blank	W	03-26-14 16:56		482272-025

Sample receipt non conformances and comments:

This revised report replaces the report issued on April 10, 2014.
The result for Gamma-BHC (Lindane) for the Equipment Blank sample originally reported with a "J" qualifier for sample was re-evaluated and determined to be due to any anomalous peak that resulted in a false positive. The report has been corrected to reflect this.

Pesticide sample extracts were subject to Sulfur Clean-up SW-846 3660B.

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 482272

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-1** Matrix: Ground Water Date Received:03.28.14 17.27

Lab Sample Id: 482272-001 Date Collected: 03.25.14 17.34

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

Tech: LRA % Moisture:

Analyst: KKO Date Prep: 04.01.14 09.27

Seq Number: 937898 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0990	0.00298	ug/L	04.04.14 23.49	U	1
4,4-DDE	72-55-9	U	0.0990	0.00598	ug/L	04.04.14 23.49	U	1
4,4-DDT	50-29-3	U	0.0990	0.0343	ug/L	04.04.14 23.49	U	1
Aldrin	309-00-2	U	0.0495	0.00323	ug/L	04.04.14 23.49	U	1
Alpha-BHC	319-84-6	U	0.0495	0.00305	ug/L	04.04.14 23.49	U	1
Alpha-Chlordane	5103-71-9	U	0.0495	0.00326	ug/L	04.04.14 23.49	U	1
Beta-BHC	319-85-7	U	0.0495	0.00232	ug/L	04.04.14 23.49	U	1
Delta-BHC	319-86-8	U	0.0495	0.00131	ug/L	04.04.14 23.49	U	1
Dieldrin	60-57-1	U	0.0990	0.00150	ug/L	04.04.14 23.49	U	1
Endosulfan I	959-98-8	U	0.0495	0.000991	ug/L	04.04.14 23.49	U	1
Endosulfan II	33213-65-9	U	0.0990	0.00175	ug/L	04.04.14 23.49	U	1
Endosulfan Sulfate	1031-07-8	U	0.0990	0.00115	ug/L	04.04.14 23.49	U	1
Endrin	72-20-8	U	0.0990	0.00144	ug/L	04.04.14 23.49	U	1
Endrin Aldehyde	7421-93-4	U	0.0990	0.00341	ug/L	04.04.14 23.49	U	1
Endrin Ketone	53494-70-5	U	0.0990	0.00141	ug/L	04.04.14 23.49	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0495	0.00169	ug/L	04.04.14 23.49	U	1
Gamma-Chlordane	5103-74-2	U	0.0495	0.00484	ug/L	04.04.14 23.49	U	1
Heptachlor	76-44-8	U	0.0495	0.00551	ug/L	04.04.14 23.49	U	1
Heptachlor Epoxide	1024-57-3	U	0.0495	0.00142	ug/L	04.04.14 23.49	U	1
Methoxychlor	72-43-5	U	0.495	0.00176	ug/L	04.04.14 23.49	U	1
Chlordane	12789-03-6	U	0.495	0.102	ug/L	04.04.14 23.49	U	1
Toxaphene	8001-35-2	U	2.48	0.0762	ug/L	04.04.14 23.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	35	%	18-126	04.04.14 23.49	
Decachlorobiphenyl	2051-24-3	84	%	15-136	04.04.14 23.49	

Certificate of Analytical Results 482272

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-1A** Matrix: Ground Water Date Received:03.28.14 17.27

Lab Sample Id: 482272-002 Date Collected: 03.25.14 18.19

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

Tech: LRA % Moisture:

Analyst: KKO Date Prep: 04.01.14 09.30

Seq Number: 937898 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.101	0.00304	ug/L	04.05.14 00.11	U	1
4,4-DDE	72-55-9	U	0.101	0.00610	ug/L	04.05.14 00.11	U	1
4,4-DDT	50-29-3	U	0.101	0.0350	ug/L	04.05.14 00.11	U	1
Aldrin	309-00-2	U	0.0505	0.00329	ug/L	04.05.14 00.11	U	1
Alpha-BHC	319-84-6	U	0.0505	0.00311	ug/L	04.05.14 00.11	U	1
Alpha-Chlordane	5103-71-9	U	0.0505	0.00333	ug/L	04.05.14 00.11	U	1
Beta-BHC	319-85-7	U	0.0505	0.00237	ug/L	04.05.14 00.11	U	1
Delta-BHC	319-86-8	U	0.0505	0.00134	ug/L	04.05.14 00.11	U	1
Dieldrin	60-57-1	U	0.101	0.00153	ug/L	04.05.14 00.11	U	1
Endosulfan I	959-98-8	U	0.0505	0.00101	ug/L	04.05.14 00.11	U	1
Endosulfan II	33213-65-9	U	0.101	0.00179	ug/L	04.05.14 00.11	U	1
Endosulfan Sulfate	1031-07-8	U	0.101	0.00117	ug/L	04.05.14 00.11	U	1
Endrin	72-20-8	U	0.101	0.00147	ug/L	04.05.14 00.11	U	1
Endrin Aldehyde	7421-93-4	U	0.101	0.00347	ug/L	04.05.14 00.11	U	1
Endrin Ketone	53494-70-5	U	0.101	0.00144	ug/L	04.05.14 00.11	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0505	0.00173	ug/L	04.05.14 00.11	U	1
Gamma-Chlordane	5103-74-2	U	0.0505	0.00494	ug/L	04.05.14 00.11	U	1
Heptachlor	76-44-8	U	0.0505	0.00562	ug/L	04.05.14 00.11	U	1
Heptachlor Epoxide	1024-57-3	U	0.0505	0.00145	ug/L	04.05.14 00.11	U	1
Methoxychlor	72-43-5	U	0.505	0.00180	ug/L	04.05.14 00.11	U	1
Chlordane	12789-03-6	U	0.505	0.104	ug/L	04.05.14 00.11	U	1
Toxaphene	8001-35-2	U	2.53	0.0777	ug/L	04.05.14 00.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	26	%	18-126	04.05.14 00.11	
Decachlorobiphenyl	2051-24-3	80	%	15-136	04.05.14 00.11	

Certificate of Analytical Results 482272

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-2** Matrix: Ground Water Date Received:03.28.14 17.27

Lab Sample Id: 482272-003 Date Collected: 03.25.14 10.04

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

Tech: LRA % Moisture:

Analyst: KKO Date Prep: 04.01.14 09.33

Seq Number: 937898 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0985	0.00296	ug/L	04.05.14 00.34	U	1
4,4-DDE	72-55-9	U	0.0985	0.00595	ug/L	04.05.14 00.34	U	1
4,4-DDT	50-29-3	U	0.0985	0.0342	ug/L	04.05.14 00.34	U	1
Aldrin	309-00-2	U	0.0493	0.00321	ug/L	04.05.14 00.34	U	1
Alpha-BHC	319-84-6	U	0.0493	0.00304	ug/L	04.05.14 00.34	U	1
Alpha-Chlordane	5103-71-9	U	0.0493	0.00324	ug/L	04.05.14 00.34	U	1
Beta-BHC	319-85-7	U	0.0493	0.00231	ug/L	04.05.14 00.34	U	1
Delta-BHC	319-86-8	U	0.0493	0.00131	ug/L	04.05.14 00.34	U	1
Dieldrin	60-57-1	U	0.0985	0.00149	ug/L	04.05.14 00.34	U	1
Endosulfan I	959-98-8	U	0.0493	0.000986	ug/L	04.05.14 00.34	U	1
Endosulfan II	33213-65-9	U	0.0985	0.00175	ug/L	04.05.14 00.34	U	1
Endosulfan Sulfate	1031-07-8	U	0.0985	0.00115	ug/L	04.05.14 00.34	U	1
Endrin	72-20-8	U	0.0985	0.00143	ug/L	04.05.14 00.34	U	1
Endrin Aldehyde	7421-93-4	U	0.0985	0.00339	ug/L	04.05.14 00.34	U	1
Endrin Ketone	53494-70-5	U	0.0985	0.00141	ug/L	04.05.14 00.34	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0493	0.00168	ug/L	04.05.14 00.34	U	1
Gamma-Chlordane	5103-74-2	U	0.0493	0.00482	ug/L	04.05.14 00.34	U	1
Heptachlor	76-44-8	U	0.0493	0.00548	ug/L	04.05.14 00.34	U	1
Heptachlor Epoxide	1024-57-3	U	0.0493	0.00142	ug/L	04.05.14 00.34	U	1
Methoxychlor	72-43-5	U	0.493	0.00176	ug/L	04.05.14 00.34	U	1
Chlordane	12789-03-6	U	0.493	0.102	ug/L	04.05.14 00.34	U	1
Toxaphene	8001-35-2	U	2.46	0.0758	ug/L	04.05.14 00.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	56	%	18-126	04.05.14 00.34	
Decachlorobiphenyl	2051-24-3	77	%	15-136	04.05.14 00.34	

Certificate of Analytical Results 482272

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-3** Matrix: Ground Water Date Received:03.28.14 17.27

Lab Sample Id: 482272-004 Date Collected: 03.25.14 15.54

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

Tech: LRA % Moisture:

Analyst: KKO Date Prep: 04.01.14 09.36

Seq Number: 937898 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00301	ug/L	04.05.14 00.57	U	1
4,4-DDE	72-55-9	U	0.100	0.00604	ug/L	04.05.14 00.57	U	1
4,4-DDT	50-29-3	U	0.100	0.0347	ug/L	04.05.14 00.57	U	1
Aldrin	309-00-2	U	0.0500	0.00326	ug/L	04.05.14 00.57	U	1
Alpha-BHC	319-84-6	U	0.0500	0.00308	ug/L	04.05.14 00.57	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00329	ug/L	04.05.14 00.57	U	1
Beta-BHC	319-85-7	U	0.0500	0.00235	ug/L	04.05.14 00.57	U	1
Delta-BHC	319-86-8	U	0.0500	0.00133	ug/L	04.05.14 00.57	U	1
Dieldrin	60-57-1	U	0.100	0.00151	ug/L	04.05.14 00.57	U	1
Endosulfan I	959-98-8	U	0.0500	0.00100	ug/L	04.05.14 00.57	U	1
Endosulfan II	33213-65-9	U	0.100	0.00177	ug/L	04.05.14 00.57	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00116	ug/L	04.05.14 00.57	U	1
Endrin	72-20-8	U	0.100	0.00146	ug/L	04.05.14 00.57	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00344	ug/L	04.05.14 00.57	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00143	ug/L	04.05.14 00.57	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00171	ug/L	04.05.14 00.57	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00489	ug/L	04.05.14 00.57	U	1
Heptachlor	76-44-8	U	0.0500	0.00556	ug/L	04.05.14 00.57	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00144	ug/L	04.05.14 00.57	U	1
Methoxychlor	72-43-5	U	0.500	0.00178	ug/L	04.05.14 00.57	U	1
Chlordane	12789-03-6	U	0.500	0.103	ug/L	04.05.14 00.57	U	1
Toxaphene	8001-35-2	U	2.50	0.0769	ug/L	04.05.14 00.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	47	%	18-126	04.05.14 00.57	
Decachlorobiphenyl	2051-24-3	81	%	15-136	04.05.14 00.57	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-4U** Matrix: Ground Water Date Received:03.28.14 17.27

Lab Sample Id: 482272-005 Date Collected: 03.25.14 16.48

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

Tech: LRA % Moisture:

Analyst: KKO Date Prep: 04.01.14 09.39

Seq Number: 937898 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00301	ug/L	04.05.14 01.20	U	1
4,4-DDE	72-55-9	U	0.100	0.00604	ug/L	04.05.14 01.20	U	1
4,4-DDT	50-29-3	U	0.100	0.0347	ug/L	04.05.14 01.20	U	1
Aldrin	309-00-2	U	0.0500	0.00326	ug/L	04.05.14 01.20	U	1
Alpha-BHC	319-84-6	U	0.0500	0.00308	ug/L	04.05.14 01.20	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00329	ug/L	04.05.14 01.20	U	1
Beta-BHC	319-85-7	U	0.0500	0.00235	ug/L	04.05.14 01.20	U	1
Delta-BHC	319-86-8	U	0.0500	0.00133	ug/L	04.05.14 01.20	U	1
Dieldrin	60-57-1	U	0.100	0.00151	ug/L	04.05.14 01.20	U	1
Endosulfan I	959-98-8	U	0.0500	0.00100	ug/L	04.05.14 01.20	U	1
Endosulfan II	33213-65-9	U	0.100	0.00177	ug/L	04.05.14 01.20	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00116	ug/L	04.05.14 01.20	U	1
Endrin	72-20-8	U	0.100	0.00146	ug/L	04.05.14 01.20	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00344	ug/L	04.05.14 01.20	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00143	ug/L	04.05.14 01.20	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00171	ug/L	04.05.14 01.20	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00489	ug/L	04.05.14 01.20	U	1
Heptachlor	76-44-8	U	0.0500	0.00556	ug/L	04.05.14 01.20	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00144	ug/L	04.05.14 01.20	U	1
Methoxychlor	72-43-5	U	0.500	0.00178	ug/L	04.05.14 01.20	U	1
Chlordane	12789-03-6	U	0.500	0.103	ug/L	04.05.14 01.20	U	1
Toxaphene	8001-35-2	U	2.50	0.0769	ug/L	04.05.14 01.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	55	%	18-126	04.05.14 01.20	
Decachlorobiphenyl	2051-24-3	68	%	15-136	04.05.14 01.20	

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Environmental International Corporation, Alpharetta, GA

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Sample Id: **MW-5A** Matrix: Ground Water Date Received:03.28.14 17.27

Lab Sample Id: 482272-006 Date Collected: 03.26.14 11.48

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

Tech: LRA % Moisture:

Analyst: KKO Date Prep: 04.01.14 09.42

Seq Number: 937898 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0990	0.00298	ug/L	04.05.14 01.43	U	1
4,4-DDE	72-55-9	U	0.0990	0.00598	ug/L	04.05.14 01.43	U	1
4,4-DDT	50-29-3	U	0.0990	0.0343	ug/L	04.05.14 01.43	U	1
Aldrin	309-00-2	**0.0747**	0.0495	0.00323	ug/L	04.05.14 01.43		1
Alpha-BHC	319-84-6	**0.239**	0.0495	0.00305	ug/L	04.05.14 01.43		1
Alpha-Chlordane	5103-71-9	U	0.0495	0.00326	ug/L	04.05.14 01.43	U	1
Beta-BHC	319-85-7	U	0.0495	0.00232	ug/L	04.05.14 01.43	U	1
Delta-BHC	319-86-8	**0.668**	0.0495	0.00131	ug/L	04.05.14 01.43		1
Dieldrin	60-57-1	U	0.0990	0.00150	ug/L	04.05.14 01.43	U	1
Endosulfan I	959-98-8	U	0.0495	0.000991	ug/L	04.05.14 01.43	U	1
Endosulfan II	33213-65-9	U	0.0990	0.00175	ug/L	04.05.14 01.43	U	1
Endosulfan Sulfate	1031-07-8	U	0.0990	0.00115	ug/L	04.05.14 01.43	U	1
Endrin	72-20-8	U	0.0990	0.00144	ug/L	04.05.14 01.43	U	1
Endrin Aldehyde	7421-93-4	U	0.0990	0.00341	ug/L	04.05.14 01.43	U	1
Endrin Ketone	53494-70-5	**0.244**	0.0990	0.00141	ug/L	04.05.14 01.43		1
Gamma-BHC (Lindane)	58-89-9	**0.240**	0.0495	0.00169	ug/L	04.05.14 01.43		1
Gamma-Chlordane	5103-74-2	U	0.0495	0.00484	ug/L	04.05.14 01.43	U	1
Heptachlor	76-44-8	U	0.0495	0.00551	ug/L	04.05.14 01.43	U	1
Heptachlor Epoxide	1024-57-3	U	0.0495	0.00142	ug/L	04.05.14 01.43	U	1
Methoxychlor	72-43-5	U	0.495	0.00176	ug/L	04.05.14 01.43	U	1
Chlordane	12789-03-6	U	0.495	0.102	ug/L	04.05.14 01.43	U	1
Toxaphene	8001-35-2	U	2.48	0.0762	ug/L	04.05.14 01.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	58	%	18-126	04.05.14 01.43	
Decachlorobiphenyl	2051-24-3	78	%	15-136	04.05.14 01.43	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-5D** Matrix: Ground Water Date Received:03.28.14 17.27

Lab Sample Id: 482272-007 Date Collected: 03.26.14 12.44

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

Tech: LRA % Moisture:

Analyst: KKO Date Prep: 04.01.14 09.45

Seq Number: 937898 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0990	0.00298	ug/L	04.05.14 02.06	U	1
4,4-DDE	72-55-9	U	0.0990	0.00598	ug/L	04.05.14 02.06	U	1
4,4-DDT	50-29-3	U	0.0990	0.0343	ug/L	04.05.14 02.06	U	1
Aldrin	309-00-2	U	0.0495	0.00323	ug/L	04.05.14 02.06	U	1
Alpha-BHC	319-84-6	U	0.0495	0.00305	ug/L	04.05.14 02.06	U	1
Alpha-Chlordane	5103-71-9	U	0.0495	0.00326	ug/L	04.05.14 02.06	U	1
Beta-BHC	319-85-7	U	0.0495	0.00232	ug/L	04.05.14 02.06	U	1
Delta-BHC	319-86-8	U	0.0495	0.00131	ug/L	04.05.14 02.06	U	1
Dieldrin	60-57-1	U	0.0990	0.00150	ug/L	04.05.14 02.06	U	1
Endosulfan I	959-98-8	U	0.0495	0.000991	ug/L	04.05.14 02.06	U	1
Endosulfan II	33213-65-9	U	0.0990	0.00175	ug/L	04.05.14 02.06	U	1
Endosulfan Sulfate	1031-07-8	U	0.0990	0.00115	ug/L	04.05.14 02.06	U	1
Endrin	72-20-8	U	0.0990	0.00144	ug/L	04.05.14 02.06	U	1
Endrin Aldehyde	7421-93-4	U	0.0990	0.00341	ug/L	04.05.14 02.06	U	1
Endrin Ketone	53494-70-5	U	0.0990	0.00141	ug/L	04.05.14 02.06	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0495	0.00169	ug/L	04.05.14 02.06	U	1
Gamma-Chlordane	5103-74-2	U	0.0495	0.00484	ug/L	04.05.14 02.06	U	1
Heptachlor	76-44-8	U	0.0495	0.00551	ug/L	04.05.14 02.06	U	1
Heptachlor Epoxide	1024-57-3	U	0.0495	0.00142	ug/L	04.05.14 02.06	U	1
Methoxychlor	72-43-5	U	0.495	0.00176	ug/L	04.05.14 02.06	U	1
Chlordane	12789-03-6	U	0.495	0.102	ug/L	04.05.14 02.06	U	1
Toxaphene	8001-35-2	U	2.48	0.0762	ug/L	04.05.14 02.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	58	%	18-126	04.05.14 02.06	
Decachlorobiphenyl	2051-24-3	77	%	15-136	04.05.14 02.06	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-6** Matrix: Ground Water Date Received:03.28.14 17.27

Lab Sample Id: 482272-008 Date Collected: 03.26.14 14.17

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

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 04.01.14 16.09

Seq Number: 937904 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.101	0.00304	ug/L	04.08.14 11.32	U	1
4,4-DDE	72-55-9	U	0.101	0.00610	ug/L	04.08.14 11.32	U	1
4,4-DDT	50-29-3	U	0.101	0.0350	ug/L	04.08.14 11.32	U	1
Aldrin	309-00-2	U	0.0505	0.00329	ug/L	04.08.14 11.32	U	1
Alpha-BHC	319-84-6	**0.797**	0.0505	0.00311	ug/L	04.08.14 11.32		1
Alpha-Chlordane	5103-71-9	U	0.0505	0.00333	ug/L	04.08.14 11.32	U	1
Beta-BHC	319-85-7	**1.16**	0.0505	0.00237	ug/L	04.08.14 11.32		1
Delta-BHC	319-86-8	**1.98**	0.0505	0.00134	ug/L	04.08.14 11.32		1
Dieldrin	60-57-1	U	0.101	0.00153	ug/L	04.08.14 11.32	U	1
Endosulfan I	959-98-8	U	0.0505	0.00101	ug/L	04.08.14 11.32	U	1
Endosulfan II	33213-65-9	U	0.101	0.00179	ug/L	04.08.14 11.32	U	1
Endosulfan Sulfate	1031-07-8	U	0.101	0.00117	ug/L	04.08.14 11.32	U	1
Endrin	72-20-8	U	0.101	0.00147	ug/L	04.08.14 11.32	U	1
Endrin Aldehyde	7421-93-4	U	0.101	0.00347	ug/L	04.08.14 11.32	U	1
Endrin Ketone	53494-70-5	U	0.101	0.00144	ug/L	04.08.14 11.32	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0505	0.00173	ug/L	04.08.14 11.32	U	1
Gamma-Chlordane	5103-74-2	U	0.0505	0.00494	ug/L	04.08.14 11.32	U	1
Heptachlor	76-44-8	U	0.0505	0.00562	ug/L	04.08.14 11.32	U	1
Heptachlor Epoxide	1024-57-3	U	0.0505	0.00145	ug/L	04.08.14 11.32	U	1
Methoxychlor	72-43-5	U	0.505	0.00180	ug/L	04.08.14 11.32	U	1
Chlordane	12789-03-6	U	0.505	0.104	ug/L	04.08.14 11.32	U	1
Toxaphene	8001-35-2	U	2.53	0.0777	ug/L	04.08.14 11.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	80	%	18-126	04.08.14 11.32	
Decachlorobiphenyl	2051-24-3	55	%	15-136	04.08.14 11.32	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-7** Matrix: Ground Water Date Received:03.28.14 17.27

Lab Sample Id: 482272-009 Date Collected: 03.26.14 14.44

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

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 04.01.14 16.12

Seq Number: 937904 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00301	ug/L	04.05.14 04.00	U	1
4,4-DDE	72-55-9	U	0.100	0.00604	ug/L	04.05.14 04.00	U	1
4,4-DDT	50-29-3	U	0.100	0.0347	ug/L	04.05.14 04.00	U	1
Aldrin	309-00-2	U	0.0500	0.00326	ug/L	04.05.14 04.00	U	1
Alpha-BHC	319-84-6	**0.0184**	0.0500	0.00308	ug/L	04.05.14 04.00	J	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00329	ug/L	04.05.14 04.00	U	1
Delta-BHC	319-86-8	U	0.0500	0.00133	ug/L	04.05.14 04.00	U	1
Dieldrin	60-57-1	U	0.100	0.00151	ug/L	04.05.14 04.00	U	1
Endosulfan I	959-98-8	U	0.0500	0.00100	ug/L	04.05.14 04.00	U	1
Endosulfan II	33213-65-9	U	0.100	0.00177	ug/L	04.05.14 04.00	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00116	ug/L	04.05.14 04.00	U	1
Endrin	72-20-8	U	0.100	0.00146	ug/L	04.05.14 04.00	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00344	ug/L	04.05.14 04.00	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00143	ug/L	04.05.14 04.00	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0340**	0.0500	0.00171	ug/L	04.05.14 04.00	J	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00489	ug/L	04.05.14 04.00	U	1
Heptachlor	76-44-8	U	0.0500	0.00556	ug/L	04.05.14 04.00	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00144	ug/L	04.05.14 04.00	U	1
Methoxychlor	72-43-5	U	0.500	0.00178	ug/L	04.05.14 04.00	U	1
Chlordane	12789-03-6	U	0.500	0.103	ug/L	04.05.14 04.00	U	1
Toxaphene	8001-35-2	U	2.50	0.0769	ug/L	04.05.14 04.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	55	%	18-126	04.05.14 04.00	
Decachlorobiphenyl	2051-24-3	65	%	15-136	04.05.14 04.00	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-8** Matrix: Ground Water Date Received:03.28.14 17.27

Lab Sample Id: 482272-010 Date Collected: 03.26.14 11.07

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

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 04.01.14 16.15

Seq Number: 937904 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00301	ug/L	04.05.14 04.22	U	1
4,4-DDE	72-55-9	U	0.100	0.00604	ug/L	04.05.14 04.22	U	1
4,4-DDT	50-29-3	U	0.100	0.0347	ug/L	04.05.14 04.22	U	1
Aldrin	309-00-2	U	0.0500	0.00326	ug/L	04.05.14 04.22	U	1
Alpha-BHC	319-84-6	**0.0614**	0.0500	0.00308	ug/L	04.05.14 04.22		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00329	ug/L	04.05.14 04.22	U	1
Delta-BHC	319-86-8	**0.0899**	0.0500	0.00133	ug/L	04.05.14 04.22		1
Dieldrin	60-57-1	U	0.100	0.00151	ug/L	04.05.14 04.22	U	1
Endosulfan I	959-98-8	U	0.0500	0.00100	ug/L	04.05.14 04.22	U	1
Endosulfan II	33213-65-9	U	0.100	0.00177	ug/L	04.05.14 04.22	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00116	ug/L	04.05.14 04.22	U	1
Endrin	72-20-8	U	0.100	0.00146	ug/L	04.05.14 04.22	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00344	ug/L	04.05.14 04.22	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00143	ug/L	04.05.14 04.22	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00489	ug/L	04.05.14 04.22	U	1
Heptachlor	76-44-8	U	0.0500	0.00556	ug/L	04.05.14 04.22	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00144	ug/L	04.05.14 04.22	U	1
Methoxychlor	72-43-5	U	0.500	0.00178	ug/L	04.05.14 04.22	U	1
Chlordane	12789-03-6	U	0.500	0.103	ug/L	04.05.14 04.22	U	1
Toxaphene	8001-35-2	U	2.50	0.0769	ug/L	04.05.14 04.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	59	%	18-126	04.05.14 04.22	
Decachlorobiphenyl	2051-24-3	69	%	15-136	04.05.14 04.22	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-10** Matrix: Ground Water Date Received:03.28.14 17.27

Lab Sample Id: 482272-011 Date Collected: 03.26.14 16.31

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

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 04.01.14 16.18

Seq Number: 937904 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00301	ug/L	04.05.14 04.45	U	1
4,4-DDE	72-55-9	U	0.100	0.00604	ug/L	04.05.14 04.45	U	1
4,4-DDT	50-29-3	U	0.100	0.0347	ug/L	04.05.14 04.45	U	1
Aldrin	309-00-2	U	0.0500	0.00326	ug/L	04.05.14 04.45	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00329	ug/L	04.05.14 04.45	U	1
Beta-BHC	319-85-7	U	0.0500	0.00235	ug/L	04.05.14 04.45	U	1
Dieldrin	60-57-1	U	0.100	0.00151	ug/L	04.05.14 04.45	U	1
Endosulfan I	959-98-8	U	0.0500	0.00100	ug/L	04.05.14 04.45	U	1
Endosulfan II	33213-65-9	U	0.100	0.00177	ug/L	04.05.14 04.45	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00116	ug/L	04.05.14 04.45	U	1
Endrin	72-20-8	U	0.100	0.00146	ug/L	04.05.14 04.45	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00344	ug/L	04.05.14 04.45	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00143	ug/L	04.05.14 04.45	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00489	ug/L	04.05.14 04.45	U	1
Heptachlor	76-44-8	U	0.0500	0.00556	ug/L	04.05.14 04.45	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00144	ug/L	04.05.14 04.45	U	1
Methoxychlor	72-43-5	U	0.500	0.00178	ug/L	04.05.14 04.45	U	1
Chlordane	12789-03-6	U	0.500	0.103	ug/L	04.05.14 04.45	U	1
Toxaphene	8001-35-2	U	2.50	0.0769	ug/L	04.05.14 04.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Decachlorobiphenyl	2051-24-3	65	%	15-136	04.05.14 04.45	

Certificate of Analytical Results 482272

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-11** Matrix: Ground Water Date Received:03.28.14 17.27

Lab Sample Id: 482272-012 Date Collected: 03.26.14 10.59

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

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 04.01.14 16.21

Seq Number: 937904 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00301	ug/L	04.08.14 11.55	U	1
4,4-DDE	72-55-9	U	0.100	0.00604	ug/L	04.08.14 11.55	U	1
4,4-DDT	50-29-3	U	0.100	0.0347	ug/L	04.08.14 11.55	U	1
Aldrin	309-00-2	U	0.0500	0.00326	ug/L	04.08.14 11.55	U	1
Alpha-BHC	319-84-6	U	0.0500	0.00308	ug/L	04.08.14 11.55	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00329	ug/L	04.08.14 11.55	U	1
Beta-BHC	319-85-7	**0.0270**	0.0500	0.00235	ug/L	04.08.14 11.55	J	1
Delta-BHC	319-86-8	U	0.0500	0.00133	ug/L	04.08.14 11.55	U	1
Dieldrin	60-57-1	U	0.100	0.00151	ug/L	04.08.14 11.55	U	1
Endosulfan I	959-98-8	U	0.0500	0.00100	ug/L	04.08.14 11.55	U	1
Endosulfan II	33213-65-9	U	0.100	0.00177	ug/L	04.08.14 11.55	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00116	ug/L	04.08.14 11.55	U	1
Endrin	72-20-8	U	0.100	0.00146	ug/L	04.08.14 11.55	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00344	ug/L	04.08.14 11.55	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00143	ug/L	04.08.14 11.55	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00171	ug/L	04.08.14 11.55	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00489	ug/L	04.08.14 11.55	U	1
Heptachlor	76-44-8	U	0.0500	0.00556	ug/L	04.08.14 11.55	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00144	ug/L	04.08.14 11.55	U	1
Methoxychlor	72-43-5	U	0.500	0.00178	ug/L	04.08.14 11.55	U	1
Chlordane	12789-03-6	U	0.500	0.103	ug/L	04.08.14 11.55	U	1
Toxaphene	8001-35-2	U	2.50	0.0769	ug/L	04.08.14 11.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	61	%	18-126	04.08.14 11.55	
Decachlorobiphenyl	2051-24-3	62	%	15-136	04.08.14 11.55	

Certificate of Analytical Results 482272

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-12** Matrix: Ground Water Date Received:03.28.14 17.27

Lab Sample Id: 482272-013 Date Collected: 03.26.14 10.21

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

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 04.01.14 16.24

Seq Number: 937904 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00301	ug/L	04.08.14 12.18	U	1
4,4-DDE	72-55-9	U	0.100	0.00604	ug/L	04.08.14 12.18	U	1
4,4-DDT	50-29-3	U	0.100	0.0347	ug/L	04.08.14 12.18	U	1
Aldrin	309-00-2	U	0.0500	0.00326	ug/L	04.08.14 12.18	U	1
Alpha-BHC	319-84-6	**0.0100**	0.0500	0.00308	ug/L	04.08.14 12.18	J	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00329	ug/L	04.08.14 12.18	U	1
Beta-BHC	319-85-7	**0.539**	0.0500	0.00235	ug/L	04.08.14 12.18		1
Delta-BHC	319-86-8	**0.00532**	0.0500	0.00133	ug/L	04.08.14 12.18	J	1
Dieldrin	60-57-1	U	0.100	0.00151	ug/L	04.08.14 12.18	U	1
Endosulfan I	959-98-8	U	0.0500	0.00100	ug/L	04.08.14 12.18	U	1
Endosulfan II	33213-65-9	U	0.100	0.00177	ug/L	04.08.14 12.18	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00116	ug/L	04.08.14 12.18	U	1
Endrin	72-20-8	U	0.100	0.00146	ug/L	04.08.14 12.18	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00344	ug/L	04.08.14 12.18	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00143	ug/L	04.08.14 12.18	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0138**	0.0500	0.00171	ug/L	04.08.14 12.18	J	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00489	ug/L	04.08.14 12.18	U	1
Heptachlor	76-44-8	U	0.0500	0.00556	ug/L	04.08.14 12.18	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00144	ug/L	04.08.14 12.18	U	1
Methoxychlor	72-43-5	U	0.500	0.00178	ug/L	04.08.14 12.18	U	1
Chlordane	12789-03-6	U	0.500	0.103	ug/L	04.08.14 12.18	U	1
Toxaphene	8001-35-2	U	2.50	0.0769	ug/L	04.08.14 12.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	63	%	18-126	04.08.14 12.18	
Decachlorobiphenyl	2051-24-3	70	%	15-136	04.08.14 12.18	

Certificate of Analytical Results 482272

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-13** Matrix: Ground Water Date Received:03.28.14 17.27

Lab Sample Id: 482272-014 Date Collected: 03.26.14 17.41

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

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 04.01.14 16.27

Seq Number: 937904 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.192	0.00579	ug/L	04.08.14 18.23	U	2
4,4-DDE	72-55-9	U	0.192	0.0116	ug/L	04.08.14 18.23	U	2
4,4-DDT	50-29-3	U	0.192	0.0667	ug/L	04.08.14 18.23	U	2
Aldrin	309-00-2	U	0.0962	0.00627	ug/L	04.08.14 18.23	U	2
Alpha-BHC	319-84-6	**0.0218**	0.0962	0.00593	ug/L	04.08.14 18.23	J	2
Alpha-Chlordane	5103-71-9	U	0.0962	0.00633	ug/L	04.08.14 18.23	U	2
Beta-BHC	319-85-7	**4.00**	0.0962	0.00451	ug/L	04.08.14 18.23	E	2
Delta-BHC	319-86-8	**0.0320**	0.0962	0.00255	ug/L	04.08.14 18.23	J	2
Dieldrin	60-57-1	U	0.192	0.00290	ug/L	04.08.14 18.23	U	2
Endosulfan I	959-98-8	U	0.0962	0.00193	ug/L	04.08.14 18.23	U	2
Endosulfan II	33213-65-9	U	0.192	0.00341	ug/L	04.08.14 18.23	U	2
Endosulfan Sulfate	1031-07-8	U	0.192	0.00224	ug/L	04.08.14 18.23	U	2
Endrin	72-20-8	U	0.192	0.00280	ug/L	04.08.14 18.23	U	2
Endrin Aldehyde	7421-93-4	U	0.192	0.00661	ug/L	04.08.14 18.23	U	2
Endrin Ketone	53494-70-5	U	0.192	0.00274	ug/L	04.08.14 18.23	U	2
Gamma-BHC (Lindane)	58-89-9	**0.0571**	0.0962	0.00329	ug/L	04.08.14 18.23	J	2
Gamma-Chlordane	5103-74-2	U	0.0962	0.00941	ug/L	04.08.14 18.23	U	2
Heptachlor	76-44-8	U	0.0962	0.0107	ug/L	04.08.14 18.23	U	2
Heptachlor Epoxide	1024-57-3	U	0.0962	0.00276	ug/L	04.08.14 18.23	U	2
Methoxychlor	72-43-5	U	0.962	0.00343	ug/L	04.08.14 18.23	U	2
Chlordane	12789-03-6	U	0.962	0.199	ug/L	04.08.14 18.23	U	2
Toxaphene	8001-35-2	U	4.81	0.148	ug/L	04.08.14 18.23	U	2

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	65	%	18-126	04.08.14 18.23	
Decachlorobiphenyl	2051-24-3	54	%	15-136	04.08.14 18.23	

Certificate of Analytical Results 482272

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-14** Matrix: Ground Water Date Received:03.28.14 17.27

Lab Sample Id: 482272-015 Date Collected: 03.25.14 19.48

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

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 04.01.14 16.30

Seq Number: 937904 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.101	0.00304	ug/L	04.08.14 13.04	U	1
4,4-DDE	72-55-9	U	0.101	0.00610	ug/L	04.08.14 13.04	U	1
4,4-DDT	50-29-3	U	0.101	0.0350	ug/L	04.08.14 13.04	U	1
Aldrin	309-00-2	U	0.0505	0.00329	ug/L	04.08.14 13.04	U	1
Alpha-BHC	319-84-6	U	0.0505	0.00311	ug/L	04.08.14 13.04	U	1
Alpha-Chlordane	5103-71-9	U	0.0505	0.00333	ug/L	04.08.14 13.04	U	1
Beta-BHC	319-85-7	**0.243**	0.0505	0.00237	ug/L	04.08.14 13.04		1
Delta-BHC	319-86-8	U	0.0505	0.00134	ug/L	04.08.14 13.04	U	1
Dieldrin	60-57-1	U	0.101	0.00153	ug/L	04.08.14 13.04	U	1
Endosulfan I	959-98-8	U	0.0505	0.00101	ug/L	04.08.14 13.04	U	1
Endosulfan II	33213-65-9	U	0.101	0.00179	ug/L	04.08.14 13.04	U	1
Endosulfan Sulfate	1031-07-8	U	0.101	0.00117	ug/L	04.08.14 13.04	U	1
Endrin	72-20-8	U	0.101	0.00147	ug/L	04.08.14 13.04	U	1
Endrin Aldehyde	7421-93-4	U	0.101	0.00347	ug/L	04.08.14 13.04	U	1
Endrin Ketone	53494-70-5	U	0.101	0.00144	ug/L	04.08.14 13.04	U	1
Gamma-BHC (Lindane)	58-89-9	**0.00702**	0.0505	0.00173	ug/L	04.08.14 13.04	J	1
Gamma-Chlordane	5103-74-2	U	0.0505	0.00494	ug/L	04.08.14 13.04	U	1
Heptachlor	76-44-8	U	0.0505	0.00562	ug/L	04.08.14 13.04	U	1
Heptachlor Epoxide	1024-57-3	U	0.0505	0.00145	ug/L	04.08.14 13.04	U	1
Methoxychlor	72-43-5	U	0.505	0.00180	ug/L	04.08.14 13.04	U	1
Chlordane	12789-03-6	U	0.505	0.104	ug/L	04.08.14 13.04	U	1
Toxaphene	8001-35-2	U	2.53	0.0777	ug/L	04.08.14 13.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	67	%	18-126	04.08.14 13.04	
Decachlorobiphenyl	2051-24-3	66	%	15-136	04.08.14 13.04	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-15** Matrix: Ground Water Date Received:03.28.14 17.27

Lab Sample Id: 482272-016 Date Collected: 03.26.14 09.29

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

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 04.01.14 16.33

Seq Number: 937904 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.102	0.00307	ug/L	04.08.14 13.26	U	1
4,4-DDE	72-55-9	U	0.102	0.00616	ug/L	04.08.14 13.26	U	1
4,4-DDT	50-29-3	U	0.102	0.0354	ug/L	04.08.14 13.26	U	1
Aldrin	309-00-2	U	0.0510	0.00333	ug/L	04.08.14 13.26	U	1
Alpha-BHC	319-84-6	**0.0405**	0.0510	0.00314	ug/L	04.08.14 13.26	J	1
Alpha-Chlordane	5103-71-9	U	0.0510	0.00336	ug/L	04.08.14 13.26	U	1
Beta-BHC	319-85-7	**0.317**	0.0510	0.00240	ug/L	04.08.14 13.26		1
Delta-BHC	319-86-8	U	0.0510	0.00135	ug/L	04.08.14 13.26	U	1
Dieldrin	60-57-1	U	0.102	0.00154	ug/L	04.08.14 13.26	U	1
Endosulfan I	959-98-8	U	0.0510	0.00102	ug/L	04.08.14 13.26	U	1
Endosulfan II	33213-65-9	U	0.102	0.00181	ug/L	04.08.14 13.26	U	1
Endosulfan Sulfate	1031-07-8	U	0.102	0.00119	ug/L	04.08.14 13.26	U	1
Endrin	72-20-8	U	0.102	0.00149	ug/L	04.08.14 13.26	U	1
Endrin Aldehyde	7421-93-4	U	0.102	0.00351	ug/L	04.08.14 13.26	U	1
Endrin Ketone	53494-70-5	U	0.102	0.00146	ug/L	04.08.14 13.26	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0458**	0.0510	0.00174	ug/L	04.08.14 13.26	J	1
Gamma-Chlordane	5103-74-2	U	0.0510	0.00499	ug/L	04.08.14 13.26	U	1
Heptachlor	76-44-8	U	0.0510	0.00568	ug/L	04.08.14 13.26	U	1
Heptachlor Epoxide	1024-57-3	U	0.0510	0.00147	ug/L	04.08.14 13.26	U	1
Methoxychlor	72-43-5	U	0.510	0.00182	ug/L	04.08.14 13.26	U	1
Chlordane	12789-03-6	U	0.510	0.105	ug/L	04.08.14 13.26	U	1
Toxaphene	8001-35-2	U	2.55	0.0785	ug/L	04.08.14 13.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	55	%	18-126	04.08.14 13.26	
Decachlorobiphenyl	2051-24-3	54	%	15-136	04.08.14 13.26	

Certificate of Analytical Results 482272

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-16** Matrix: Ground Water Date Received:03.28.14 17.27

Lab Sample Id: 482272-017 Date Collected: 03.26.14 15.32

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

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 04.01.14 16.36

Seq Number: 937904 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	1.00	0.0301	ug/L	04.08.14 13.49	U	10
4,4-DDE	72-55-9	U	1.00	0.0604	ug/L	04.08.14 13.49	U	10
4,4-DDT	50-29-3	U	1.00	0.347	ug/L	04.08.14 13.49	U	10
Aldrin	309-00-2	U	0.500	0.0326	ug/L	04.08.14 13.49	U	10
Alpha-BHC	319-84-6	U	0.500	0.0308	ug/L	04.08.14 13.49	U	10
Alpha-Chlordane	5103-71-9	U	0.500	0.0329	ug/L	04.08.14 13.49	U	10
Beta-BHC	319-85-7	U	0.500	0.0235	ug/L	04.08.14 13.49	U	10
Delta-BHC	319-86-8	U	0.500	0.0133	ug/L	04.08.14 13.49	U	10
Dieldrin	60-57-1	U	1.00	0.0151	ug/L	04.08.14 13.49	U	10
Endosulfan I	959-98-8	U	0.500	0.0100	ug/L	04.08.14 13.49	U	10
Endosulfan II	33213-65-9	U	1.00	0.0177	ug/L	04.08.14 13.49	U	10
Endosulfan Sulfate	1031-07-8	U	1.00	0.0116	ug/L	04.08.14 13.49	U	10
Endrin	72-20-8	U	1.00	0.0146	ug/L	04.08.14 13.49	U	10
Endrin Aldehyde	7421-93-4	U	1.00	0.0344	ug/L	04.08.14 13.49	U	10
Endrin Ketone	53494-70-5	U	1.00	0.0143	ug/L	04.08.14 13.49	U	10
Gamma-BHC (Lindane)	58-89-9	U	0.500	0.0171	ug/L	04.08.14 13.49	U	10
Gamma-Chlordane	5103-74-2	U	0.500	0.0489	ug/L	04.08.14 13.49	U	10
Heptachlor	76-44-8	U	0.500	0.0556	ug/L	04.08.14 13.49	U	10
Heptachlor Epoxide	1024-57-3	U	0.500	0.0144	ug/L	04.08.14 13.49	U	10
Methoxychlor	72-43-5	U	5.00	0.0178	ug/L	04.08.14 13.49	U	10
Chlordane	12789-03-6	U	5.00	1.03	ug/L	04.08.14 13.49	U	10
Toxaphene	8001-35-2	U	25.0	0.769	ug/L	04.08.14 13.49	U	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	45	%	18-126	04.08.14 13.49	
Decachlorobiphenyl	2051-24-3	42	%	15-136	04.08.14 13.49	

Certificate of Analytical Results 482272

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-17** Matrix: Ground Water Date Received:03.28.14 17.27
Lab Sample Id: 482272-018 Date Collected: 03.27.14 16.36

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C
Tech: PJB % Moisture:
Analyst: KKO Date Prep: 04.02.14 10.00
Seq Number: 937904 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	1.00	0.0301	ug/L	04.08.14 14.12	U	10
4,4-DDE	72-55-9	U	1.00	0.0604	ug/L	04.08.14 14.12	U	10
4,4-DDT	50-29-3	U	1.00	0.347	ug/L	04.08.14 14.12	U	10
Aldrin	309-00-2	U	0.500	0.0326	ug/L	04.08.14 14.12	U	10
Alpha-BHC	319-84-6	U	0.500	0.0308	ug/L	04.08.14 14.12	U	10
Alpha-Chlordane	5103-71-9	U	0.500	0.0329	ug/L	04.08.14 14.12	U	10
Beta-BHC	319-85-7	**0.159**	0.500	0.0235	ug/L	04.08.14 14.12	J	10
Delta-BHC	319-86-8	U	0.500	0.0133	ug/L	04.08.14 14.12	U	10
Dieldrin	60-57-1	U	1.00	0.0151	ug/L	04.08.14 14.12	U	10
Endosulfan I	959-98-8	U	0.500	0.0100	ug/L	04.08.14 14.12	U	10
Endosulfan II	33213-65-9	U	1.00	0.0177	ug/L	04.08.14 14.12	U	10
Endosulfan Sulfate	1031-07-8	U	1.00	0.0116	ug/L	04.08.14 14.12	U	10
Endrin	72-20-8	U	1.00	0.0146	ug/L	04.08.14 14.12	U	10
Endrin Aldehyde	7421-93-4	U	1.00	0.0344	ug/L	04.08.14 14.12	U	10
Endrin Ketone	53494-70-5	U	1.00	0.0143	ug/L	04.08.14 14.12	U	10
Gamma-BHC (Lindane)	58-89-9	U	0.500	0.0171	ug/L	04.08.14 14.12	U	10
Gamma-Chlordane	5103-74-2	U	0.500	0.0489	ug/L	04.08.14 14.12	U	10
Heptachlor	76-44-8	U	0.500	0.0556	ug/L	04.08.14 14.12	U	10
Heptachlor Epoxide	1024-57-3	U	0.500	0.0144	ug/L	04.08.14 14.12	U	10
Methoxychlor	72-43-5	U	5.00	0.0178	ug/L	04.08.14 14.12	U	10
Chlordane	12789-03-6	U	5.00	1.03	ug/L	04.08.14 14.12	U	10
Toxaphene	8001-35-2	U	25.0	0.769	ug/L	04.08.14 14.12	U	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	52	%	18-126	04.08.14 14.12	
Decachlorobiphenyl	2051-24-3	84	%	15-136	04.08.14 14.12	

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GPA Bainbridge

Sample Id: **MW-18** Matrix: Ground Water Date Received:03.28.14 17.27

Lab Sample Id: 482272-019 Date Collected: 03.26.14 08.26

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

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 04.02.14 10.03

Seq Number: 937904 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.962	0.0289	ug/L	04.08.14 14.35	U	10
4,4-DDE	72-55-9	U	0.962	0.0581	ug/L	04.08.14 14.35	U	10
4,4-DDT	50-29-3	U	0.962	0.333	ug/L	04.08.14 14.35	U	10
Aldrin	309-00-2	U	0.481	0.0313	ug/L	04.08.14 14.35	U	10
Alpha-BHC	319-84-6	U	0.481	0.0296	ug/L	04.08.14 14.35	U	10
Alpha-Chlordane	5103-71-9	U	0.481	0.0317	ug/L	04.08.14 14.35	U	10
Beta-BHC	319-85-7	**0.356**	0.481	0.0226	ug/L	04.08.14 14.35	J	10
Delta-BHC	319-86-8	U	0.481	0.0127	ug/L	04.08.14 14.35	U	10
Dieldrin	60-57-1	U	0.962	0.0145	ug/L	04.08.14 14.35	U	10
Endosulfan I	959-98-8	U	0.481	0.00963	ug/L	04.08.14 14.35	U	10
Endosulfan II	33213-65-9	U	0.962	0.0170	ug/L	04.08.14 14.35	U	10
Endosulfan Sulfate	1031-07-8	U	0.962	0.0112	ug/L	04.08.14 14.35	U	10
Endrin	72-20-8	U	0.962	0.0140	ug/L	04.08.14 14.35	U	10
Endrin Aldehyde	7421-93-4	U	0.962	0.0331	ug/L	04.08.14 14.35	U	10
Endrin Ketone	53494-70-5	U	0.962	0.0137	ug/L	04.08.14 14.35	U	10
Gamma-BHC (Lindane)	58-89-9	U	0.481	0.0164	ug/L	04.08.14 14.35	U	10
Gamma-Chlordane	5103-74-2	U	0.481	0.0470	ug/L	04.08.14 14.35	U	10
Heptachlor	76-44-8	U	0.481	0.0535	ug/L	04.08.14 14.35	U	10
Heptachlor Epoxide	1024-57-3	U	0.481	0.0138	ug/L	04.08.14 14.35	U	10
Methoxychlor	72-43-5	U	4.81	0.0171	ug/L	04.08.14 14.35	U	10
Chlordane	12789-03-6	U	4.81	0.993	ug/L	04.08.14 14.35	U	10
Toxaphene	8001-35-2	U	24.0	0.740	ug/L	04.08.14 14.35	U	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	52	%	18-126	04.08.14 14.35	
Decachlorobiphenyl	2051-24-3	90	%	15-136	04.08.14 14.35	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-19** Matrix: Ground Water Date Received:03.28.14 17.27

Lab Sample Id: 482272-020 Date Collected: 03.25.14 12.22

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

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 04.01.14 16.39

Seq Number: 937904 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	1.01	0.0304	ug/L	04.08.14 14.58	U	10
4,4-DDE	72-55-9	U	1.01	0.0610	ug/L	04.08.14 14.58	U	10
4,4-DDT	50-29-3	U	1.01	0.350	ug/L	04.08.14 14.58	U	10
Aldrin	309-00-2	U	0.505	0.0329	ug/L	04.08.14 14.58	U	10
Alpha-BHC	319-84-6	U	0.505	0.0311	ug/L	04.08.14 14.58	U	10
Alpha-Chlordane	5103-71-9	U	0.505	0.0333	ug/L	04.08.14 14.58	U	10
Beta-BHC	319-85-7	**0.0643**	0.505	0.0237	ug/L	04.08.14 14.58	J	10
Delta-BHC	319-86-8	U	0.505	0.0134	ug/L	04.08.14 14.58	U	10
Dieldrin	60-57-1	U	1.01	0.0153	ug/L	04.08.14 14.58	U	10
Endosulfan I	959-98-8	U	0.505	0.0101	ug/L	04.08.14 14.58	U	10
Endosulfan II	33213-65-9	U	1.01	0.0179	ug/L	04.08.14 14.58	U	10
Endosulfan Sulfate	1031-07-8	U	1.01	0.0117	ug/L	04.08.14 14.58	U	10
Endrin	72-20-8	U	1.01	0.0147	ug/L	04.08.14 14.58	U	10
Endrin Aldehyde	7421-93-4	U	1.01	0.0347	ug/L	04.08.14 14.58	U	10
Endrin Ketone	53494-70-5	U	1.01	0.0144	ug/L	04.08.14 14.58	U	10
Gamma-BHC (Lindane)	58-89-9	U	0.505	0.0173	ug/L	04.08.14 14.58	U	10
Gamma-Chlordane	5103-74-2	U	0.505	0.0494	ug/L	04.08.14 14.58	U	10
Heptachlor	76-44-8	U	0.505	0.0562	ug/L	04.08.14 14.58	U	10
Heptachlor Epoxide	1024-57-3	U	0.505	0.0145	ug/L	04.08.14 14.58	U	10
Methoxychlor	72-43-5	U	5.05	0.0180	ug/L	04.08.14 14.58	U	10
Chlordane	12789-03-6	U	5.05	1.04	ug/L	04.08.14 14.58	U	10
Toxaphene	8001-35-2	U	25.3	0.777	ug/L	04.08.14 14.58	U	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	55	%	18-126	04.08.14 14.58	

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GPA Bainbridge

Sample Id: **MW-19 Duplicate** Matrix: Ground Water Date Received:03.28.14 17.27

Lab Sample Id: 482272-021 Date Collected: 03.27.14 12.22

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

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 04.02.14 10.06

Seq Number: 937904 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0980	0.00295	ug/L	04.08.14 15.21	U	1
4,4-DDE	72-55-9	U	0.0980	0.00592	ug/L	04.08.14 15.21	U	1
4,4-DDT	50-29-3	U	0.0980	0.0340	ug/L	04.08.14 15.21	U	1
Aldrin	309-00-2	U	0.0490	0.00320	ug/L	04.08.14 15.21	U	1
Alpha-BHC	319-84-6	U	0.0490	0.00302	ug/L	04.08.14 15.21	U	1
Alpha-Chlordane	5103-71-9	U	0.0490	0.00323	ug/L	04.08.14 15.21	U	1
Beta-BHC	319-85-7	**0.0740**	0.0490	0.00230	ug/L	04.08.14 15.21		1
Delta-BHC	319-86-8	U	0.0490	0.00130	ug/L	04.08.14 15.21	U	1
Dieldrin	60-57-1	U	0.0980	0.00148	ug/L	04.08.14 15.21	U	1
Endosulfan I	959-98-8	U	0.0490	0.000982	ug/L	04.08.14 15.21	U	1
Endosulfan II	33213-65-9	U	0.0980	0.00174	ug/L	04.08.14 15.21	U	1
Endosulfan Sulfate	1031-07-8	U	0.0980	0.00114	ug/L	04.08.14 15.21	U	1
Endrin	72-20-8	U	0.0980	0.00143	ug/L	04.08.14 15.21	U	1
Endrin Aldehyde	7421-93-4	U	0.0980	0.00337	ug/L	04.08.14 15.21	U	1
Endrin Ketone	53494-70-5	U	0.0980	0.00140	ug/L	04.08.14 15.21	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0109**	0.0490	0.00168	ug/L	04.08.14 15.21	J	1
Gamma-Chlordane	5103-74-2	U	0.0490	0.00480	ug/L	04.08.14 15.21	U	1
Heptachlor	76-44-8	U	0.0490	0.00545	ug/L	04.08.14 15.21	U	1
Heptachlor Epoxide	1024-57-3	U	0.0490	0.00141	ug/L	04.08.14 15.21	U	1
Methoxychlor	72-43-5	U	0.490	0.00175	ug/L	04.08.14 15.21	U	1
Chlordane	12789-03-6	U	0.490	0.101	ug/L	04.08.14 15.21	U	1
Toxaphene	8001-35-2	U	2.45	0.0754	ug/L	04.08.14 15.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	51	%	18-126	04.08.14 15.21	
Decachlorobiphenyl	2051-24-3	74	%	15-136	04.08.14 15.21	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-20** Matrix: Ground Water Date Received:03.28.14 17.27

Lab Sample Id: 482272-022 Date Collected: 03.27.14 09.25

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

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 04.02.14 10.09

Seq Number: 937904 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.990	0.0298	ug/L	04.08.14 15.43	U	10
4,4-DDE	72-55-9	U	0.990	0.0598	ug/L	04.08.14 15.43	U	10
4,4-DDT	50-29-3	U	0.990	0.343	ug/L	04.08.14 15.43	U	10
Aldrin	309-00-2	U	0.495	0.0323	ug/L	04.08.14 15.43	U	10
Alpha-BHC	319-84-6	U	0.495	0.0305	ug/L	04.08.14 15.43	U	10
Alpha-Chlordane	5103-71-9	U	0.495	0.0326	ug/L	04.08.14 15.43	U	10
Beta-BHC	319-85-7	**2.64**	0.495	0.0232	ug/L	04.08.14 15.43		10
Delta-BHC	319-86-8	**0.0229**	0.495	0.0131	ug/L	04.08.14 15.43	J	10
Dieldrin	60-57-1	U	0.990	0.0150	ug/L	04.08.14 15.43	U	10
Endosulfan I	959-98-8	U	0.495	0.00991	ug/L	04.08.14 15.43	U	10
Endosulfan II	33213-65-9	U	0.990	0.0175	ug/L	04.08.14 15.43	U	10
Endosulfan Sulfate	1031-07-8	U	0.990	0.0115	ug/L	04.08.14 15.43	U	10
Endrin	72-20-8	U	0.990	0.0144	ug/L	04.08.14 15.43	U	10
Endrin Aldehyde	7421-93-4	U	0.990	0.0341	ug/L	04.08.14 15.43	U	10
Endrin Ketone	53494-70-5	U	0.990	0.0141	ug/L	04.08.14 15.43	U	10
Gamma-BHC (Lindane)	58-89-9	U	0.495	0.0169	ug/L	04.08.14 15.43	U	10
Gamma-Chlordane	5103-74-2	U	0.495	0.0484	ug/L	04.08.14 15.43	U	10
Heptachlor	76-44-8	U	0.495	0.0551	ug/L	04.08.14 15.43	U	10
Heptachlor Epoxide	1024-57-3	U	0.495	0.0142	ug/L	04.08.14 15.43	U	10
Methoxychlor	72-43-5	U	4.95	0.0176	ug/L	04.08.14 15.43	U	10
Chlordane	12789-03-6	U	4.95	1.02	ug/L	04.08.14 15.43	U	10
Toxaphene	8001-35-2	U	24.8	0.762	ug/L	04.08.14 15.43	U	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	23	%	18-126	04.08.14 15.43	
Decachlorobiphenyl	2051-24-3	41	%	15-136	04.08.14 15.43	

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Sample Id: **MW-21** Matrix: Ground Water Date Received:03.28.14 17.27

Lab Sample Id: 482272-023 Date Collected: 03.27.14 15.36

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

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 04.02.14 10.12

Seq Number: 937904 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	1.00	0.0301	ug/L	04.08.14 16.06	U	10
4,4-DDE	72-55-9	U	1.00	0.0604	ug/L	04.08.14 16.06	U	10
4,4-DDT	50-29-3	U	1.00	0.347	ug/L	04.08.14 16.06	U	10
Aldrin	309-00-2	U	0.500	0.0326	ug/L	04.08.14 16.06	U	10
Alpha-BHC	319-84-6	U	0.500	0.0308	ug/L	04.08.14 16.06	U	10
Alpha-Chlordane	5103-71-9	U	0.500	0.0329	ug/L	04.08.14 16.06	U	10
Beta-BHC	319-85-7	**0.856**	0.500	0.0235	ug/L	04.08.14 16.06		10
Delta-BHC	319-86-8	U	0.500	0.0133	ug/L	04.08.14 16.06	U	10
Dieldrin	60-57-1	U	1.00	0.0151	ug/L	04.08.14 16.06	U	10
Endosulfan I	959-98-8	U	0.500	0.0100	ug/L	04.08.14 16.06	U	10
Endosulfan II	33213-65-9	U	1.00	0.0177	ug/L	04.08.14 16.06	U	10
Endosulfan Sulfate	1031-07-8	U	1.00	0.0116	ug/L	04.08.14 16.06	U	10
Endrin	72-20-8	U	1.00	0.0146	ug/L	04.08.14 16.06	U	10
Endrin Aldehyde	7421-93-4	U	1.00	0.0344	ug/L	04.08.14 16.06	U	10
Endrin Ketone	53494-70-5	U	1.00	0.0143	ug/L	04.08.14 16.06	U	10
Gamma-BHC (Lindane)	58-89-9	U	0.500	0.0171	ug/L	04.08.14 16.06	U	10
Gamma-Chlordane	5103-74-2	U	0.500	0.0489	ug/L	04.08.14 16.06	U	10
Heptachlor	76-44-8	U	0.500	0.0556	ug/L	04.08.14 16.06	U	10
Heptachlor Epoxide	1024-57-3	U	0.500	0.0144	ug/L	04.08.14 16.06	U	10
Methoxychlor	72-43-5	U	5.00	0.0178	ug/L	04.08.14 16.06	U	10
Chlordane	12789-03-6	U	5.00	1.03	ug/L	04.08.14 16.06	U	10
Toxaphene	8001-35-2	U	25.0	0.769	ug/L	04.08.14 16.06	U	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	54	%	18-126	04.08.14 16.06	
Decachlorobiphenyl	2051-24-3	61	%	15-136	04.08.14 16.06	

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Sample Id: **MW-22** Matrix: Ground Water Date Received:03.28.14 17.27

Lab Sample Id: 482272-024 Date Collected: 03.27.14 10.40

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

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 04.02.14 10.15

Seq Number: 937904 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.962	0.0289	ug/L	04.08.14 16.29	U	10
4,4-DDE	72-55-9	U	0.962	0.0581	ug/L	04.08.14 16.29	U	10
4,4-DDT	50-29-3	U	0.962	0.333	ug/L	04.08.14 16.29	U	10
Aldrin	309-00-2	U	0.481	0.0313	ug/L	04.08.14 16.29	U	10
Alpha-BHC	319-84-6	**0.284**	0.481	0.0296	ug/L	04.08.14 16.29	J	10
Alpha-Chlordane	5103-71-9	U	0.481	0.0317	ug/L	04.08.14 16.29	U	10
Beta-BHC	319-85-7	**14.3**	0.481	0.0226	ug/L	04.08.14 16.29		10
Delta-BHC	319-86-8	**0.212**	0.481	0.0127	ug/L	04.08.14 16.29	J	10
Dieldrin	60-57-1	U	0.962	0.0145	ug/L	04.08.14 16.29	U	10
Endosulfan I	959-98-8	U	0.481	0.00963	ug/L	04.08.14 16.29	U	10
Endosulfan II	33213-65-9	U	0.962	0.0170	ug/L	04.08.14 16.29	U	10
Endosulfan Sulfate	1031-07-8	U	0.962	0.0112	ug/L	04.08.14 16.29	U	10
Endrin	72-20-8	U	0.962	0.0140	ug/L	04.08.14 16.29	U	10
Endrin Aldehyde	7421-93-4	U	0.962	0.0331	ug/L	04.08.14 16.29	U	10
Endrin Ketone	53494-70-5	U	0.962	0.0137	ug/L	04.08.14 16.29	U	10
Gamma-BHC (Lindane)	58-89-9	**0.166**	0.481	0.0164	ug/L	04.08.14 16.29	J	10
Gamma-Chlordane	5103-74-2	U	0.481	0.0470	ug/L	04.08.14 16.29	U	10
Heptachlor	76-44-8	U	0.481	0.0535	ug/L	04.08.14 16.29	U	10
Heptachlor Epoxide	1024-57-3	U	0.481	0.0138	ug/L	04.08.14 16.29	U	10
Methoxychlor	72-43-5	U	4.81	0.0171	ug/L	04.08.14 16.29	U	10
Chlordane	12789-03-6	U	4.81	0.993	ug/L	04.08.14 16.29	U	10
Toxaphene	8001-35-2	U	24.0	0.740	ug/L	04.08.14 16.29	U	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	29	%	18-126	04.08.14 16.29	
Decachlorobiphenyl	2051-24-3	38	%	15-136	04.08.14 16.29	

Certificate of Analytical Results 482272

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **Equipment Blank** Matrix: Ground Water Date Received:03.28.14 17.27

Lab Sample Id: 482272-025 Date Collected: 03.26.14 16.56

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

Tech: PJB % Moisture:

Analyst: KKO Date Prep: 04.02.14 10.18

Seq Number: 937904 SUB: E871002

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0962	0.00289	ug/L	04.08.14 16.52	U	1
4,4-DDE	72-55-9	U	0.0962	0.00581	ug/L	04.08.14 16.52	U	1
4,4-DDT	50-29-3	U	0.0962	0.0333	ug/L	04.08.14 16.52	U	1
Aldrin	309-00-2	U	0.0481	0.00313	ug/L	04.08.14 16.52	U	1
Alpha-BHC	319-84-6	U	0.0481	0.00296	ug/L	04.08.14 16.52	U	1
Alpha-Chlordane	5103-71-9	U	0.0481	0.00317	ug/L	04.08.14 16.52	U	1
Beta-BHC	319-85-7	U	0.0481	0.00226	ug/L	04.08.14 16.52	U	1
Delta-BHC	319-86-8	U	0.0481	0.00127	ug/L	04.08.14 16.52	U	1
Dieldrin	60-57-1	U	0.0962	0.00145	ug/L	04.08.14 16.52	U	1
Endosulfan I	959-98-8	U	0.0481	0.000963	ug/L	04.08.14 16.52	U	1
Endosulfan II	33213-65-9	U	0.0962	0.00170	ug/L	04.08.14 16.52	U	1
Endosulfan Sulfate	1031-07-8	U	0.0962	0.00112	ug/L	04.08.14 16.52	U	1
Endrin	72-20-8	U	0.0962	0.00140	ug/L	04.08.14 16.52	U	1
Endrin Aldehyde	7421-93-4	U	0.0962	0.00331	ug/L	04.08.14 16.52	U	1
Endrin Ketone	53494-70-5	U	0.0962	0.00137	ug/L	04.08.14 16.52	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0481	0.00164	ug/L	04.08.14 16.52	U	1
Gamma-Chlordane	5103-74-2	U	0.0481	0.00470	ug/L	04.08.14 16.52	U	1
Heptachlor	76-44-8	U	0.0481	0.00535	ug/L	04.08.14 16.52	U	1
Heptachlor Epoxide	1024-57-3	U	0.0481	0.00138	ug/L	04.08.14 16.52	U	1
Methoxychlor	72-43-5	U	0.481	0.00171	ug/L	04.08.14 16.52	U	1
Chlordane	12789-03-6	U	0.481	0.0993	ug/L	04.08.14 16.52	U	1
Toxaphene	8001-35-2	U	2.40	0.0740	ug/L	04.08.14 16.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	88	%	18-126	04.08.14 16.52	
Decachlorobiphenyl	2051-24-3	90	%	15-136	04.08.14 16.52	

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

QC Summary 482272

Environmental International Corporation

GPA Bainbridge

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

Seq Number: 937898 Matrix: Water Date Prep: 03.31.14

MB Sample Id: 653192-1-BLK LCS Sample Id: 653192-1-BKS LCSD Sample Id: 653192-1-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	<0.00301	1.00	0.927	93	0.874	87	11-160	6	25	ug/L	04.04.14 20:23	
4,4-DDE	<0.00604	1.00	0.889	89	0.831	83	15-157	7	25	ug/L	04.04.14 20:23	
4,4-DDT	<0.0347	1.00	0.918	92	0.884	88	15-157	4	25	ug/L	04.04.14 20:23	
Aldrin	<0.00326	1.00	0.812	81	0.762	76	12-154	6	25	ug/L	04.04.14 20:23	
Alpha-BHC	<0.00308	1.00	0.829	83	0.780	78	10-149	6	25	ug/L	04.04.14 20:23	
Alpha-Chlordane	<0.00329	1.00	0.861	86	0.805	81	15-140	7	25	ug/L	04.04.14 20:23	
Beta-BHC	<0.00235	1.00	0.821	82	0.784	78	10-151	5	25	ug/L	04.04.14 20:23	
Delta-BHC	<0.00133	1.00	0.865	87	0.821	82	10-155	5	25	ug/L	04.04.14 20:23	
Dieldrin	<0.00151	1.00	0.886	89	0.826	83	14-156	7	25	ug/L	04.04.14 20:23	
Endosulfan I	<0.00100	1.00	0.826	83	0.774	77	12-155	7	25	ug/L	04.04.14 20:23	
Endosulfan II	<0.00177	1.00	0.895	90	0.844	84	16-158	6	25	ug/L	04.04.14 20:23	
Endosulfan Sulfate	<0.00116	1.00	0.901	90	0.855	86	17-159	5	25	ug/L	04.04.14 20:23	
Endrin	<0.00146	1.00	0.895	90	0.838	84	14-169	7	25	ug/L	04.04.14 20:23	
Endrin Aldehyde	<0.00344	1.00	0.842	84	0.795	80	22-148	6	25	ug/L	04.04.14 20:23	
Endrin Ketone	<0.00143	1.00	0.925	93	0.879	88	28-154	5	25	ug/L	04.04.14 20:23	
Gamma-BHC (Lindane)	<0.00171	1.00	0.843	84	0.792	79	8-157	6	25	ug/L	04.04.14 20:23	
Gamma-Chlordane	<0.00489	1.00	0.847	85	0.808	81	18-141	5	25	ug/L	04.04.14 20:23	
Heptachlor	<0.00556	1.00	0.834	83	0.780	78	10-157	7	25	ug/L	04.04.14 20:23	
Heptachlor Epoxide	<0.00144	1.00	0.840	84	0.789	79	15-155	6	25	ug/L	04.04.14 20:23	
Methoxychlor	<0.00178	1.00	0.855	86	0.819	82	25-161	1	25	ug/L	04.04.14 20:23	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	68		77		70		18-126	%	04.04.14 20:23
Decachlorobiphenyl	80		92		91		15-136	%	04.04.14 20:23

Environmental International Corporation

GPA Bainbridge

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C
Seq Number: 937904 Matrix: Water Date Prep: 04.01.14
MB Sample Id: 653297-1-BLK LCS Sample Id: 653297-1-BKS LCSD Sample Id: 653297-1-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	<0.00301	1.00	0.779	78	0.831	83	11-160	6	25	ug/L	04.05.14 02:51	
4,4-DDE	<0.00604	1.00	0.725	73	0.777	78	15-157	7	25	ug/L	04.05.14 02:51	
4,4-DDT	<0.0347	1.00	0.631	63	0.693	69	15-157	9	25	ug/L	04.05.14 02:51	
Aldrin	<0.00326	1.00	0.683	68	0.723	72	12-154	6	25	ug/L	04.05.14 02:51	
Alpha-BHC	<0.00308	1.00	0.683	68	0.721	72	10-149	5	25	ug/L	04.05.14 02:51	
Alpha-Chlordane	<0.00329	1.00	0.700	70	0.749	75	15-140	7	25	ug/L	04.05.14 02:51	
Beta-BHC	<0.00235	1.00	0.690	69	0.731	73	10-151	6	25	ug/L	04.05.14 02:51	
Delta-BHC	<0.00133	1.00	0.635	64	0.670	67	10-155	5	25	ug/L	04.05.14 02:51	
Dieldrin	<0.00151	1.00	0.725	73	0.775	78	14-156	7	25	ug/L	04.05.14 02:51	
Endosulfan I	<0.00100	1.00	0.685	69	0.728	73	12-155	6	25	ug/L	04.05.14 02:51	
Endosulfan II	<0.00177	1.00	0.738	74	0.785	79	16-158	6	25	ug/L	04.05.14 02:51	
Endosulfan Sulfate	<0.00116	1.00	0.693	69	0.742	74	17-159	7	25	ug/L	04.05.14 02:51	
Endrin	<0.00146	1.00	0.689	69	0.737	74	14-169	7	25	ug/L	04.05.14 02:51	
Endrin Aldehyde	<0.00344	1.00	0.673	67	0.712	71	22-148	6	25	ug/L	04.05.14 02:51	
Endrin Ketone	<0.00143	1.00	0.793	79	0.844	84	28-154	6	25	ug/L	04.05.14 02:51	
Gamma-BHC (Lindane)	<0.00171	1.00	0.687	69	0.731	73	8-157	6	25	ug/L	04.05.14 02:51	
Gamma-Chlordane	<0.00489	1.00	0.702	70	0.749	75	18-141	6	25	ug/L	04.05.14 02:51	
Heptachlor	<0.00556	1.00	0.654	65	0.695	70	10-157	6	25	ug/L	04.05.14 02:51	
Heptachlor Epoxide	<0.00144	1.00	0.688	69	0.731	73	15-155	6	25	ug/L	04.05.14 02:51	
Methoxychlor	<0.00178	1.00	0.626	63	0.673	67	25-161	7	25	ug/L	04.05.14 02:51	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	57		63		66		18-126	%	04.05.14 02:51
Decachlorobiphenyl	54		69		73		15-136	%	04.05.14 02:51

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C
Seq Number: 937898 Matrix: Sludge Date Prep: 04.01.14
Parent Sample Id: 482087-006 MS Sample Id: 482087-006 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Endosulfan I	<0.00501	5.00	3.73	75	12-155	ug/L	04.04.14 22:40	
Methoxychlor	<0.00891	5.00	3.64	73	25-161	ug/L	04.04.14 22:40	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	68		18-126	%	04.04.14 22:40
Decachlorobiphenyl	80		15-136	%	04.04.14 22:40

XENCO LABORATORIES

XENCO LABORATORIES
CHAIN OF CUSTODY

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: EIC
Address: 161 Kimball Bridge Rd. Alpharetta, GA 30009
Results Sent to: Patrick Gragson
Email address: pgragson@eicusa.com
Contact Phone #: 770-772-7100 Cell#:
Project Name (Site): GPA Bainbridge
Project Number (ID): 400007-4.5
Regulatory Program:

Receiver's Initials/Temp: [signature] / 1.3°C
Custody Seal(s): ___ Y N Lab Work Order # 482272
P.O.# (if required):
Field Comments / Lab Precautions:

Sampler(s): (signature) A. [signature]
Sampler(s): (printed) Patrick Gragson

Analysis Requested

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	8081A
1	MW-1		3/25/14 17:34	GW		X	1	X
2	MW-1A		3/25/14 18:19	GW		X	1	X
3	MW-~~3~~ 2		3/25/14 10:04	GW		X	1	X
4	MW-3		3/25/14 15:54	GW		X	1	X
5	MW-4U		3/25/14 16:48	GW		X	1	X
6	MW-5A		3/26/14 11:48	GW		X	1	X
7	MW-5D		3/26/14 12:44	GW		X	1	X
8	MW-6		3/26/14 14:17	GW		X	1	X
9	MW-7		3/26/14 14:44	GW		X	1	X
10	MW-8		3/26/14 11:07	GW		X	1	X

Container Type: GA ~~GA~~
Chemical Preservation Code:

1) Relinquished By: A. [signature] Date / Time 3/28/14 17:27
2) Received By: Dario Lagmas Date / Time 03/28/14 17:27
3) Relinquished By: Date / Time
4) Received By: Date / Time
5) Relinquished By: Date / Time
6) Received By: Date / Time

Delivered by: (Circle One)
Fed Ex / UPS / Courier / Lab Pickup / Hand / Other

Turnaround Time (business days)
TAT Starts when samples are rec'd by 2PM
___10 Days ; X 5-7 Days; ___3 Days
___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)
Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH
Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

XENCO LABORATORIES
CHAIN OF CUSTODY

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: EIC	Receiver's Initials/Temp: A / 1.3°C
Address: 161 Kimball Bridge Rd. Alpharetta, GA 30009	Custody Seal(s): ___ Y N Lab Work Order # 482272
Results Sent to: Patrick Grayson	P.O.# (if required):
Email address: pgrayson@eicusa.com	Field Comments / Lab Precautions:
Contact Phone #: 770-772-7100 Cell#:	
Project Name (Site): GPA Bainbridge	
Project Number (ID): 400007-4.5	Container Type: GA
Regulatory Program:	Chemical Preservation Code:

Analysis Requested

Sampler(s): (signature)	Sampler(s): (printed)
A. Patrick Grayson	Patrick Grayson

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	8081A
1	MW-8 MatrixSpike		3/26/2014 11:07	GW		X	1	X
2	MW-10		3/26/14 16:31	GW		X	1	X
3	MW-11		3/25/14 10:59	GW		X	1	X
4	MW-12		3/26/14 10:21	GW		X	1	X
5	MW-13		3/26/14 17:41	GW		X	1	X
6	MW-14		3/25/14 19:48	GW		X	1	X
7	MW-15		3/26/14 9:29	GW		X	1	X
8	MW-16		3/26/14 15:32	GW		X	1	X
9	MW-17		3/27/14 16:36	GW		X	1	X
10	MW-18		3/26/14 8:26	GW		X	1	X

1) Relinquished By: A. Patrick Grayson	Date / Time 3/28/14 17:27	2) Received By: Dano Lagmas	Date / Time 03/28/14 17:27
3) Relinquished By:	Date / Time	4) Received By:	Date / Time
5) Relinquished By:	Date / Time	6) Received By:	Date / Time

Delivered by: (Circle One)
Fed Ex / UPS / Courier / Lab Pickup / Hand / Other

Turnaround Time (business days)
TAT Starts when samples are rec'd by 2PM
___10 Days ; X 5-7 Days; ___3 Days
___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)

Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH

Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

XENCO LABORATORIES
CHAIN OF CUSTODY

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: EIC	Receiver's Initials/Temp: PL / 1.3°C
Address: 161 Kimball Bridge Rd. Alpharetta, GA 30009	Custody Seal(s): ___ Y N Lab Work Order # 482272
Results Sent to: Patrick Grayson	P.O.# (if required):
Email address: pgrayson@eicusa.com	Field Comments / Lab Precautions:
Contact Phone #: 770-772-7100 Cell#:	
Project Name (Site): GPA Bainbridge	**Analysis Requested**
Project Number (ID): 400007-4.5	Container Type: GA
Regulatory Program:	Chemical Preservation Code:

Sampler(s): (signature)	Sampler(s): (printed)
A. Patrick Lyon	Patrick Grayson

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	8081A
1	MW-19		3/25/14 12:22	GW		X	1	X
2	MW-19 Duplicate		3/25/14 12:22	GW		X	1	X
3	MW-20		3/27/14 9:25	GW		X	1	X
4	MW-21		3/27/14 15:36	GW		X	1	X
5	MW-22		3/27/14 10:40	GW		X	1	X
6	MW-22 Matrix Spike		3/27/14 10:40	GW		X	1	X
7	Equipment Blank		3/27/14 16:56	GW		X	1	X
8								
9								
10								

1) Relinquished By: A. Patrick Lyon	Date / Time 3/28/14 17:27	2) Received By: Dario Lagmar	Date / Time 03/28/14 17:27
3) Relinquished By:	Date / Time	4) Received By:	Date / Time
5) Relinquished By:	Date / Time	6) Received By:	Date / Time

Delivered by: (Circle One)
Fed Ex / UPS / Courier / Lab Pickup / Hand / Other

Turnaround Time (business days)
TAT Starts when samples are rec'd by 2PM
___10 Days ; X 5-7 Days; ___3 Days
___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)

Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH

Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Florida Testing Services, LLC

Client: Environmental International Corporation

Date/ Time Received: 03/28/2014 05:27:00 PM

Work Order #: 482272

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)?	1.3
#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**
#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)?	**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: 03/29/2014

Checklist reviewed by: Eben Buchanan Date: 03/31/2014

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

FOURTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT D

September 2014 Groundwater Analytical Results

Analytical Report 492804

for

Environmental International Corporation

Project Manager: Alan Sanders

GPA Bainbridge

400007-4.5

15-SEP-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 (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

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

15-SEP-14

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

Reference: XENCO Report No(s): **492804**
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) 492804. 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. 492804 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 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	09-04-14 11:19		492804-001
MW-1A	W	09-04-14 12:17		492804-002
MW-2	W	09-03-14 08:58		492804-003
MW-3	W	09-04-14 09:03		492804-004
MW-4 U	W	09-04-14 10:02		492804-005
MW-5A	W	09-05-14 09:04		492804-006
MW-5D	W	09-03-14 19:40		492804-007
MW-6	W	09-04-14 19:07		492804-008
MW-7	W	09-03-14 15:09		492804-009
MW-8	W	09-03-14 18:50		492804-010
MW-10	W	09-03-14 17:43		492804-011
MW-10 DUP	W	09-03-14 17:43		492804-012
MW-11	W	09-03-14 10:25		492804-013
MW-12	W	09-02-14 20:24		492804-014
MW-13	W	09-02-14 15:15		492804-015
MW-14	W	09-04-14 18:09		492804-016
MW-15	W	09-05-14 14:04		492804-017
MW-16	W	09-03-14 16:45		492804-018
MW-17	W	09-02-14 17:56		492804-019
MW-18	W	09-04-14 15:15		492804-020
MW-19	W	09-04-14 15:15		492804-021
MW-20	W	09-03-14 16:14		492804-022
MW-21	W	09-05-14 10:46		492804-023
MW-22	W	09-05-14 10:39		492804-024
MW-23	W	09-05-14 12:27		492804-025
MW-6 Tubing Rinsate	W	09-02-14 19:17		492804-026
Equipment Blank	W	09-05-14 08:30		492804-027

Sample receipt non conformances and comments:

All samples for Pesticides by SW-846 8081B were subject to Sulfur Cleanup by METHOD 3660B.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-950367 Organochlorine Pesticides by SW-846 8081B
Gamma-Chlordane recovered above QC limits in the Matrix Spike Duplicate. Samples affected are: 492804-020.
The Laboratory Control Sample for Gamma-Chlordane is within laboratory Control Limits

Surrogate Decachlorobiphenyl, Surrogate Tetrachloro-m-xylene recovered below QC limits. Surrogate was inadvertantly omitted during sample preparation. Re-extraction was not performed due to lack of additional sample aliquote, data confirmed by re-analysis Sample affected are: 492804-018.

Hits Summary 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-1**
Lab Sample Id : 492804-001

Matrix : Ground Water
Date Collected : 09.04.14 11.19
Date Received : 09.06.14 10.44

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 950367

Prep Method: SW3510C
Date Prep: 09.08.14 09.45

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.0343	ug/L	09.09.14 12.31	J	1
Beta-BHC	319-85-7	0.231	ug/L	09.09.14 12.31		1
Gamma-BHC (Lindane)	58-89-9	0.0362	ug/L	09.09.14 12.31	J	1

Hits Summary 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-1A**
Lab Sample Id : 492804-002

Matrix : Ground Water
Date Collected : 09.04.14 12.17
Date Received : 09.06.14 10.44

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 950367

Prep Method: SW3510C
Date Prep: 09.08.14 09.45

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.0234	ug/L	09.09.14 12.51	J	1
Beta-BHC	319-85-7	0.161	ug/L	09.09.14 12.51		1
Delta-BHC	319-86-8	0.00460	ug/L	09.09.14 12.51	J	1
Gamma-BHC (Lindane)	58-89-9	0.0213	ug/L	09.09.14 12.51	J	1

Hits Summary 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-5A**
Lab Sample Id : 492804-006

Matrix : Ground Water
Date Collected : 09.05.14 09.04
Date Received : 09.06.14 10.44

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 950367

Prep Method: SW3510C
Date Prep: 09.08.14 09.45

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Aldrin	309-00-2	0.0787	ug/L	09.09.14 14.12		1
Alpha-BHC	319-84-6	0.322	ug/L	09.09.14 14.12		1
Beta-BHC	319-85-7	7.47	ug/L	09.10.14 13.22	D	20
Delta-BHC	319-86-8	1.01	ug/L	09.10.14 13.22	D	20
Dieldrin	60-57-1	1.99	ug/L	09.09.14 14.12		1
Endrin Ketone	53494-70-5	0.235	ug/L	09.09.14 14.12		1
Gamma-BHC (Lindane)	58-89-9	0.298	ug/L	09.09.14 14.12		1

Hits Summary 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-5D**
Lab Sample Id : 492804-007

Matrix : Ground Water
Date Collected : 09.03.14 19.40
Date Received : 09.06.14 10.44

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 950367

Prep Method: SW3510C
Date Prep: 09.08.14 09.45

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.352	ug/L	09.09.14 14.32		1
Beta-BHC	319-85-7	18.2	ug/L	09.10.14 13.42	D	50
Delta-BHC	319-86-8	1.93	ug/L	09.10.14 13.42	JD	50
Dieldrin	60-57-1	0.360	ug/L	09.09.14 14.32		1
Endrin Ketone	53494-70-5	0.0541	ug/L	09.09.14 14.32	J	1
Gamma-BHC (Lindane)	58-89-9	0.383	ug/L	09.09.14 14.32		1

Hits Summary 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-6**
Lab Sample Id : 492804-008

Matrix : Ground Water
Date Collected : 09.04.14 19.07
Date Received : 09.06.14 10.44

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 950367

Prep Method: SW3510C
Date Prep: 09.08.14 09.45

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.907	ug/L	09.10.14 14.03	D	10
Beta-BHC	319-85-7	1.15	ug/L	09.10.14 14.03	D	10
Delta-BHC	319-86-8	1.81	ug/L	09.10.14 14.03	D	10

Hits Summary 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-7**
Lab Sample Id : 492804-009

Matrix : Ground Water
Date Collected : 09.03.14 15.09
Date Received : 09.06.14 10.44

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 950367

Prep Method: SW3510C
Date Prep: 09.08.14 09.45

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.0364	ug/L	09.09.14 15.33	J	1
Beta-BHC	319-85-7	0.409	ug/L	09.09.14 15.33		1
Gamma-BHC (Lindane)	58-89-9	0.0660	ug/L	09.09.14 15.33		1

Hits Summary 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-8**
Lab Sample Id : 492804-010

Matrix : Ground Water
Date Collected : 09.03.14 18.50
Date Received : 09.06.14 10.44

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 950367

Prep Method: SW3510C
Date Prep: 09.08.14 09.45

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.179	ug/L	09.09.14 15.53		1
Beta-BHC	319-85-7	1.31	ug/L	09.10.14 14.23	D	5
Delta-BHC	319-86-8	0.272	ug/L	09.09.14 15.53		1
Dieldrin	60-57-1	0.0148	ug/L	09.09.14 15.53	J	1
Gamma-BHC (Lindane)	58-89-9	0.145	ug/L	09.09.14 15.53		1

Hits Summary 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-10**
Lab Sample Id : 492804-011

Matrix : Ground Water
Date Collected : 09.03.14 17.43
Date Received : 09.06.14 10.44

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 950367

Prep Method: SW3510C
Date Prep: 09.08.14 09.45

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.443	ug/L	09.09.14 16.13		1
Beta-BHC	319-85-7	7.62	ug/L	09.10.14 14.43	D	20
Delta-BHC	319-86-8	0.489	ug/L	09.09.14 16.13		1
Gamma-BHC (Lindane)	58-89-9	0.189	ug/L	09.09.14 16.13		1

Hits Summary 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-10 DUP**
Lab Sample Id : 492804-012

Matrix : Ground Water
Date Collected : 09.03.14 17.43
Date Received : 09.06.14 10.44

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 950367

Prep Method: SW3510C
Date Prep: 09.08.14 09.45

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.473	ug/L	09.09.14 16.33		1
Beta-BHC	319-85-7	8.20	ug/L	09.10.14 15.03	D	20
Delta-BHC	319-86-8	0.536	ug/L	09.09.14 16.33		1
Gamma-BHC (Lindane)	58-89-9	0.200	ug/L	09.09.14 16.33		1

Hits Summary 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-11**
Lab Sample Id : 492804-013

Matrix : Ground Water
Date Collected : 09.03.14 10.25
Date Received : 09.06.14 10.44

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 950367

Prep Method: SW3510C
Date Prep: 09.08.14 09.45

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Beta-BHC	319-85-7	0.0181	ug/L	09.09.14 16.53	J	1

Hits Summary 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-12**
Lab Sample Id : 492804-014

Matrix : Ground Water
Date Collected : 09.02.14 20.24
Date Received : 09.06.14 10.44

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 950367

Prep Method: SW3510C
Date Prep: 09.08.14 09.45

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.0227	ug/L	09.09.14 17.14	J	1
Beta-BHC	319-85-7	0.660	ug/L	09.09.14 17.14		1
Delta-BHC	319-86-8	0.00930	ug/L	09.09.14 17.14	J	1
Gamma-BHC (Lindane)	58-89-9	0.0107	ug/L	09.09.14 17.14	J	1

Hits Summary 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-13**
Lab Sample Id : 492804-015

Matrix : Ground Water
Date Collected : 09.02.14 15.15
Date Received : 09.06.14 10.44

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 950367

Prep Method: SW3510C
Date Prep: 09.08.14 09.45

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.0319	ug/L	09.09.14 17.34	J	1
Beta-BHC	319-85-7	3.87	ug/L	09.10.14 15.23	D	10
Delta-BHC	319-86-8	0.0782	ug/L	09.09.14 17.34		1
Gamma-BHC (Lindane)	58-89-9	0.0517	ug/L	09.09.14 17.34		1

Hits Summary 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-14**
Lab Sample Id : 492804-016

Matrix : Ground Water
Date Collected : 09.04.14 18.09
Date Received : 09.06.14 10.44

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 950367

Prep Method: SW3510C
Date Prep: 09.08.14 09.45

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Beta-BHC	319-85-7	0.311	ug/L	09.09.14 17.54		1
Gamma-BHC (Lindane)	58-89-9	0.00250	ug/L	09.09.14 17.54	J	1

Hits Summary 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-15**
Lab Sample Id : 492804-017

Matrix : Ground Water
Date Collected : 09.05.14 14.04
Date Received : 09.06.14 10.44

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 950367

Prep Method: SW3510C
Date Prep: 09.08.14 09.45

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.139	ug/L	09.09.14 18.14		1
Beta-BHC	319-85-7	0.587	ug/L	09.09.14 18.14		1
Delta-BHC	319-86-8	0.0174	ug/L	09.09.14 18.14	J	1
Gamma-BHC (Lindane)	58-89-9	0.0865	ug/L	09.09.14 18.14		1

Hits Summary 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-17**
Lab Sample Id : 492804-019

Matrix : Ground Water
Date Collected : 09.02.14 17.56
Date Received : 09.06.14 10.44

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 950367

Prep Method: SW3510C
Date Prep: 09.08.14 09.45

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Beta-BHC	319-85-7	0.218	ug/L	09.09.14 19.15		1
Delta-BHC	319-86-8	0.0105	ug/L	09.09.14 19.15	J	1
Gamma-BHC (Lindane)	58-89-9	0.00287	ug/L	09.09.14 19.15	J	1

Hits Summary 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-18**
Lab Sample Id : 492804-020

Matrix : Ground Water
Date Collected : 09.04.14 15.15
Date Received : 09.06.14 10.44

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 950367

Prep Method: SW3510C
Date Prep: 09.08.14 09.45

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Beta-BHC	319-85-7	0.102	ug/L	09.09.14 19.35		1
Gamma-BHC (Lindane)	58-89-9	0.00327	ug/L	09.09.14 19.35	J	1

Hits Summary 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-19**
Lab Sample Id : 492804-021

Matrix : Ground Water
Date Collected : 09.04.14 15.15
Date Received : 09.06.14 10.44

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 950379

Prep Method: SW3510C
Date Prep: 09.08.14 10.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Beta-BHC	319-85-7	0.0762	ug/L	09.09.14 21.57		1
Delta-BHC	319-86-8	0.00515	ug/L	09.09.14 21.57	J	1
Gamma-BHC (Lindane)	58-89-9	0.00891	ug/L	09.09.14 21.57	J	1

Hits Summary 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-20**
Lab Sample Id : 492804-022

Matrix : Ground Water
Date Collected : 09.03.14 16.14
Date Received : 09.06.14 10.44

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 950379

Prep Method: SW3510C
Date Prep: 09.08.14 10.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.0803	ug/L	09.09.14 22.17		1
Beta-BHC	319-85-7	12.4	ug/L	09.10.14 16.24	D	50
Delta-BHC	319-86-8	0.469	ug/L	09.09.14 22.17		1
Gamma-BHC (Lindane)	58-89-9	0.0740	ug/L	09.09.14 22.17		1

Hits Summary 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-21**
Lab Sample Id : 492804-023

Matrix : Ground Water
Date Collected : 09.05.14 10.46
Date Received : 09.06.14 10.44

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 950379

Prep Method: SW3510C
Date Prep: 09.08.14 10.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.359	ug/L	09.09.14 22.37		1
Beta-BHC	319-85-7	5.52	ug/L	09.10.14 17.04	D	10
Delta-BHC	319-86-8	0.574	ug/L	09.09.14 22.37		1
Gamma-BHC (Lindane)	58-89-9	0.280	ug/L	09.09.14 22.37		1

Hits Summary 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-22**
Lab Sample Id : 492804-024

Matrix : Ground Water
Date Collected : 09.05.14 10.39
Date Received : 09.06.14 10.44

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 950379

Prep Method: SW3510C
Date Prep: 09.08.14 10.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	1.01	ug/L	09.10.14 17.25	D	5
Beta-BHC	319-85-7	37.2	ug/L	09.10.14 17.45	D	50
Delta-BHC	319-86-8	22.4	ug/L	09.10.14 17.45	D	50
Gamma-BHC (Lindane)	58-89-9	0.365	ug/L	09.09.14 22.57		1

Hits Summary 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-23**
Lab Sample Id : 492804-025

Matrix : Ground Water
Date Collected : 09.05.14 12.27
Date Received : 09.06.14 10.44

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 950379

Prep Method: SW3510C
Date Prep: 09.08.14 10.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.0227	ug/L	09.09.14 23.58	J	1
Beta-BHC	319-85-7	5.17	ug/L	09.10.14 18.05	D	10
Delta-BHC	319-86-8	0.0174	ug/L	09.09.14 23.58	J	1
Gamma-BHC (Lindane)	58-89-9	0.0517	ug/L	09.09.14 23.58		1

Hits Summary 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id : **MW-6 Tubing Rinsate**
Lab Sample Id : 492804-026

Matrix : Ground Water
Date Collected : 09.02.14 19.17
Date Received : 09.06.14 10.44

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 950379

Prep Method: SW3510C
Date Prep: 09.08.14 10.55

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Beta-BHC	319-85-7	0.102	ug/L	09.10.14 00.18		1

Certificate of Analytical Results 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-1** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-001 Date Collected: 09.04.14 11.19

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 09.45

Seq Number: 950367

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.14 12.31	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.14 12.31	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.14 12.31	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.14 12.31	U	1
Alpha-BHC	319-84-6	**0.0343**	0.0500	0.0101	ug/L	09.09.14 12.31	J	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.14 12.31	U	1
Beta-BHC	319-85-7	**0.231**	0.0500	0.00230	ug/L	09.09.14 12.31		1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.09.14 12.31	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.14 12.31	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.14 12.31	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.14 12.31	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.14 12.31	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.14 12.31	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.14 12.31	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.14 12.31	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0362**	0.0500	0.00160	ug/L	09.09.14 12.31	J	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.14 12.31	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.14 12.31	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.14 12.31	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.14 12.31	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.14 12.31	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	09.09.14 12.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	93	%	27-135	09.09.14 12.31	
Decachlorobiphenyl	2051-24-3	113	%	26-154	09.09.14 12.31	

Certificate of Analytical Results 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-1A** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-002 Date Collected: 09.04.14 12.17

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 09.45

Seq Number: 950367

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.14 12.51	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.14 12.51	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.14 12.51	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.14 12.51	U	1
Alpha-BHC	319-84-6	**0.0234**	0.0500	0.0101	ug/L	09.09.14 12.51	J	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.14 12.51	U	1
Beta-BHC	319-85-7	**0.161**	0.0500	0.00230	ug/L	09.09.14 12.51		1
Delta-BHC	319-86-8	**0.00460**	0.0500	0.00200	ug/L	09.09.14 12.51	J	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.14 12.51	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.14 12.51	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.14 12.51	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.14 12.51	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.14 12.51	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.14 12.51	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.14 12.51	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0213**	0.0500	0.00160	ug/L	09.09.14 12.51	J	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.14 12.51	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.14 12.51	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.14 12.51	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.14 12.51	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.14 12.51	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	09.09.14 12.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	94	%	27-135	09.09.14 12.51	
Decachlorobiphenyl	2051-24-3	109	%	26-154	09.09.14 12.51	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-2** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-003 Date Collected: 09.03.14 08.58

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 09.45

Seq Number: 950367

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.14 13.11	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.14 13.11	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.14 13.11	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.14 13.11	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	09.09.14 13.11	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.14 13.11	U	1
Beta-BHC	319-85-7	U	0.0500	0.00230	ug/L	09.09.14 13.11	U	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.09.14 13.11	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.14 13.11	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.14 13.11	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.14 13.11	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.14 13.11	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.14 13.11	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.14 13.11	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.14 13.11	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	09.09.14 13.11	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.14 13.11	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.14 13.11	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.14 13.11	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.14 13.11	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.14 13.11	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	09.09.14 13.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	86	%	27-135	09.09.14 13.11	
Decachlorobiphenyl	2051-24-3	106	%	26-154	09.09.14 13.11	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-3** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-004 Date Collected: 09.04.14 09.03

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 09.45

Seq Number: 950367

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.14 13.31	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.14 13.31	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.14 13.31	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.14 13.31	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	09.09.14 13.31	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.14 13.31	U	1
Beta-BHC	319-85-7	U	0.0500	0.00230	ug/L	09.09.14 13.31	U	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.09.14 13.31	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.14 13.31	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.14 13.31	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.14 13.31	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.14 13.31	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.14 13.31	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.14 13.31	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.14 13.31	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	09.09.14 13.31	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.14 13.31	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.14 13.31	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.14 13.31	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.14 13.31	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.14 13.31	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	09.09.14 13.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	84	%	27-135	09.09.14 13.31	
Decachlorobiphenyl	2051-24-3	109	%	26-154	09.09.14 13.31	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-4 U** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-005 Date Collected: 09.04.14 10.02

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 09.45

Seq Number: 950367

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.14 13.52	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.14 13.52	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.14 13.52	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.14 13.52	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	09.09.14 13.52	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.14 13.52	U	1
Beta-BHC	319-85-7	U	0.0500	0.00230	ug/L	09.09.14 13.52	U	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.09.14 13.52	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.14 13.52	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.14 13.52	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.14 13.52	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.14 13.52	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.14 13.52	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.14 13.52	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.14 13.52	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	09.09.14 13.52	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.14 13.52	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.14 13.52	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.14 13.52	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.14 13.52	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.14 13.52	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	09.09.14 13.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	77	%	27-135	09.09.14 13.52	
Decachlorobiphenyl	2051-24-3	104	%	26-154	09.09.14 13.52	

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Sample Id: **MW-5A** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-006 Date Collected: 09.05.14 09.04

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 09.45

Seq Number: 950367

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.14 14.12	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.14 14.12	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.14 14.12	U	1
Aldrin	309-00-2	**0.0787**	0.0500	0.00260	ug/L	09.09.14 14.12		1
Alpha-BHC	319-84-6	**0.322**	0.0500	0.0101	ug/L	09.09.14 14.12		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.14 14.12	U	1
Beta-BHC	319-85-7	**7.47**	1.00	0.0460	ug/L	09.10.14 13.22	D	20
Delta-BHC	319-86-8	**1.01**	1.00	0.0400	ug/L	09.10.14 13.22	D	20
Dieldrin	60-57-1	**1.99**	0.100	0.00430	ug/L	09.09.14 14.12		1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.14 14.12	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.14 14.12	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.14 14.12	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.14 14.12	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.14 14.12	U	1
Endrin Ketone	53494-70-5	**0.235**	0.100	0.00450	ug/L	09.09.14 14.12		1
Gamma-BHC (Lindane)	58-89-9	**0.298**	0.0500	0.00160	ug/L	09.09.14 14.12		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.14 14.12	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.14 14.12	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.14 14.12	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.14 14.12	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.14 14.12	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	09.09.14 14.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	77	%	27-135	09.09.14 14.12	
Decachlorobiphenyl	2051-24-3	107	%	26-154	09.09.14 14.12	

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Sample Id: **MW-5D** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-007 Date Collected: 09.03.14 19.40

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 09.45

Seq Number: 950367

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0990	0.00366	ug/L	09.09.14 14.32	U	1
4,4-DDE	72-55-9	U	0.0990	0.00347	ug/L	09.09.14 14.32	U	1
4,4-DDT	50-29-3	U	0.0990	0.00485	ug/L	09.09.14 14.32	U	1
Aldrin	309-00-2	U	0.0495	0.00257	ug/L	09.09.14 14.32	U	1
Alpha-BHC	319-84-6	**0.352**	0.0495	0.0100	ug/L	09.09.14 14.32		1
Alpha-Chlordane	5103-71-9	U	0.0495	0.00218	ug/L	09.09.14 14.32	U	1
Beta-BHC	319-85-7	**18.2**	2.48	0.114	ug/L	09.10.14 13.42	D	50
Delta-BHC	319-86-8	**1.93**	2.48	0.0990	ug/L	09.10.14 13.42	JD	50
Dieldrin	60-57-1	**0.360**	0.0990	0.00426	ug/L	09.09.14 14.32		1
Endosulfan I	959-98-8	U	0.0495	0.00238	ug/L	09.09.14 14.32	U	1
Endosulfan II	33213-65-9	U	0.0990	0.00446	ug/L	09.09.14 14.32	U	1
Endosulfan Sulfate	1031-07-8	U	0.0990	0.00693	ug/L	09.09.14 14.32	U	1
Endrin	72-20-8	U	0.0990	0.00455	ug/L	09.09.14 14.32	U	1
Endrin Aldehyde	7421-93-4	U	0.0990	0.00851	ug/L	09.09.14 14.32	U	1
Endrin Ketone	53494-70-5	**0.0541**	0.0990	0.00446	ug/L	09.09.14 14.32	J	1
Gamma-BHC (Lindane)	58-89-9	**0.383**	0.0495	0.00158	ug/L	09.09.14 14.32		1
Gamma-Chlordane	5103-74-2	U	0.0495	0.00178	ug/L	09.09.14 14.32	U	1
Heptachlor	76-44-8	U	0.0495	0.00287	ug/L	09.09.14 14.32	U	1
Heptachlor Epoxide	1024-57-3	U	0.0495	0.00277	ug/L	09.09.14 14.32	U	1
Methoxychlor	72-43-5	U	0.495	0.0285	ug/L	09.09.14 14.32	U	1
Chlordane	12789-03-6	U	0.495	0.0953	ug/L	09.09.14 14.32	U	1
Toxaphene	8001-35-2	U	2.48	0.419	ug/L	09.09.14 14.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	95	%	27-135	09.09.14 14.32	
Decachlorobiphenyl	2051-24-3	108	%	26-154	09.09.14 14.32	

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GPA Bainbridge

Sample Id: **MW-6** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-008 Date Collected: 09.04.14 19.07

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 09.45

Seq Number: 950367

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0990	0.00366	ug/L	09.09.14 14.52	U	1
4,4-DDE	72-55-9	U	0.0990	0.00347	ug/L	09.09.14 14.52	U	1
4,4-DDT	50-29-3	U	0.0990	0.00485	ug/L	09.09.14 14.52	U	1
Aldrin	309-00-2	U	0.0495	0.00257	ug/L	09.09.14 14.52	U	1
Alpha-BHC	319-84-6	**0.907**	0.495	0.100	ug/L	09.10.14 14.03	D	10
Alpha-Chlordane	5103-71-9	U	0.0495	0.00218	ug/L	09.09.14 14.52	U	1
Beta-BHC	319-85-7	**1.15**	0.495	0.0228	ug/L	09.10.14 14.03	D	10
Delta-BHC	319-86-8	**1.81**	0.495	0.0198	ug/L	09.10.14 14.03	D	10
Dieldrin	60-57-1	U	0.0990	0.00426	ug/L	09.09.14 14.52	U	1
Endosulfan I	959-98-8	U	0.0495	0.00238	ug/L	09.09.14 14.52	U	1
Endosulfan II	33213-65-9	U	0.0990	0.00446	ug/L	09.09.14 14.52	U	1
Endosulfan Sulfate	1031-07-8	U	0.0990	0.00693	ug/L	09.09.14 14.52	U	1
Endrin	72-20-8	U	0.0990	0.00455	ug/L	09.09.14 14.52	U	1
Endrin Aldehyde	7421-93-4	U	0.0990	0.00851	ug/L	09.09.14 14.52	U	1
Endrin Ketone	53494-70-5	U	0.0990	0.00446	ug/L	09.09.14 14.52	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0495	0.00158	ug/L	09.09.14 14.52	U	1
Gamma-Chlordane	5103-74-2	U	0.0495	0.00178	ug/L	09.09.14 14.52	U	1
Heptachlor	76-44-8	U	0.0495	0.00287	ug/L	09.09.14 14.52	U	1
Heptachlor Epoxide	1024-57-3	U	0.0495	0.00277	ug/L	09.09.14 14.52	U	1
Methoxychlor	72-43-5	U	0.495	0.0285	ug/L	09.09.14 14.52	U	1
Chlordane	12789-03-6	U	0.495	0.0953	ug/L	09.09.14 14.52	U	1
Toxaphene	8001-35-2	U	2.48	0.419	ug/L	09.09.14 14.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	95	%	27-135	09.09.14 14.52	
Decachlorobiphenyl	2051-24-3	111	%	26-154	09.09.14 14.52	

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Environmental International Corporation, Alpharetta, GA

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Sample Id: **MW-7** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-009 Date Collected: 09.03.14 15.09

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 09.45

Seq Number: 950367

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0990	0.00366	ug/L	09.09.14 15.33	U	1
4,4-DDE	72-55-9	U	0.0990	0.00347	ug/L	09.09.14 15.33	U	1
4,4-DDT	50-29-3	U	0.0990	0.00485	ug/L	09.09.14 15.33	U	1
Aldrin	309-00-2	U	0.0495	0.00257	ug/L	09.09.14 15.33	U	1
Alpha-BHC	319-84-6	**0.0364**	0.0495	0.0100	ug/L	09.09.14 15.33	J	1
Alpha-Chlordane	5103-71-9	U	0.0495	0.00218	ug/L	09.09.14 15.33	U	1
Beta-BHC	319-85-7	**0.409**	0.0495	0.00228	ug/L	09.09.14 15.33		1
Delta-BHC	319-86-8	U	0.0495	0.00198	ug/L	09.09.14 15.33	U	1
Dieldrin	60-57-1	U	0.0990	0.00426	ug/L	09.09.14 15.33	U	1
Endosulfan I	959-98-8	U	0.0495	0.00238	ug/L	09.09.14 15.33	U	1
Endosulfan II	33213-65-9	U	0.0990	0.00446	ug/L	09.09.14 15.33	U	1
Endosulfan Sulfate	1031-07-8	U	0.0990	0.00693	ug/L	09.09.14 15.33	U	1
Endrin	72-20-8	U	0.0990	0.00455	ug/L	09.09.14 15.33	U	1
Endrin Aldehyde	7421-93-4	U	0.0990	0.00851	ug/L	09.09.14 15.33	U	1
Endrin Ketone	53494-70-5	U	0.0990	0.00446	ug/L	09.09.14 15.33	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0660**	0.0495	0.00158	ug/L	09.09.14 15.33		1
Gamma-Chlordane	5103-74-2	U	0.0495	0.00178	ug/L	09.09.14 15.33	U	1
Heptachlor	76-44-8	U	0.0495	0.00287	ug/L	09.09.14 15.33	U	1
Heptachlor Epoxide	1024-57-3	U	0.0495	0.00277	ug/L	09.09.14 15.33	U	1
Methoxychlor	72-43-5	U	0.495	0.0285	ug/L	09.09.14 15.33	U	1
Chlordane	12789-03-6	U	0.495	0.0953	ug/L	09.09.14 15.33	U	1
Toxaphene	8001-35-2	U	2.48	0.419	ug/L	09.09.14 15.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	84	%	27-135	09.09.14 15.33	
Decachlorobiphenyl	2051-24-3	108	%	26-154	09.09.14 15.33	

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Sample Id: **MW-8** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-010 Date Collected: 09.03.14 18.50

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 09.45

Seq Number: 950367

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0990	0.00366	ug/L	09.09.14 15.53	U	1
4,4-DDE	72-55-9	U	0.0990	0.00347	ug/L	09.09.14 15.53	U	1
4,4-DDT	50-29-3	U	0.0990	0.00485	ug/L	09.09.14 15.53	U	1
Aldrin	309-00-2	U	0.0495	0.00257	ug/L	09.09.14 15.53	U	1
Alpha-BHC	319-84-6	**0.179**	0.0495	0.0100	ug/L	09.09.14 15.53		1
Alpha-Chlordane	5103-71-9	U	0.0495	0.00218	ug/L	09.09.14 15.53	U	1
Beta-BHC	319-85-7	**1.31**	0.248	0.0114	ug/L	09.10.14 14.23	D	5
Delta-BHC	319-86-8	**0.272**	0.0495	0.00198	ug/L	09.09.14 15.53		1
Dieldrin	60-57-1	**0.0148**	0.0990	0.00426	ug/L	09.09.14 15.53	J	1
Endosulfan I	959-98-8	U	0.0495	0.00238	ug/L	09.09.14 15.53	U	1
Endosulfan II	33213-65-9	U	0.0990	0.00446	ug/L	09.09.14 15.53	U	1
Endosulfan Sulfate	1031-07-8	U	0.0990	0.00693	ug/L	09.09.14 15.53	U	1
Endrin	72-20-8	U	0.0990	0.00455	ug/L	09.09.14 15.53	U	1
Endrin Aldehyde	7421-93-4	U	0.0990	0.00851	ug/L	09.09.14 15.53	U	1
Endrin Ketone	53494-70-5	U	0.0990	0.00446	ug/L	09.09.14 15.53	U	1
Gamma-BHC (Lindane)	58-89-9	**0.145**	0.0495	0.00158	ug/L	09.09.14 15.53		1
Gamma-Chlordane	5103-74-2	U	0.0495	0.00178	ug/L	09.09.14 15.53	U	1
Heptachlor	76-44-8	U	0.0495	0.00287	ug/L	09.09.14 15.53	U	1
Heptachlor Epoxide	1024-57-3	U	0.0495	0.00277	ug/L	09.09.14 15.53	U	1
Methoxychlor	72-43-5	U	0.495	0.0285	ug/L	09.09.14 15.53	U	1
Chlordane	12789-03-6	U	0.495	0.0953	ug/L	09.09.14 15.53	U	1
Toxaphene	8001-35-2	U	2.48	0.419	ug/L	09.09.14 15.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	91	%	27-135	09.09.14 15.53	
Decachlorobiphenyl	2051-24-3	110	%	26-154	09.09.14 15.53	

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Sample Id: **MW-10** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-011 Date Collected: 09.03.14 17.43

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 09.45

Seq Number: 950367

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.14 16.13	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.14 16.13	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.14 16.13	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.14 16.13	U	1
Alpha-BHC	319-84-6	**0.443**	0.0500	0.0101	ug/L	09.09.14 16.13		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.14 16.13	U	1
Beta-BHC	319-85-7	**7.62**	1.00	0.0460	ug/L	09.10.14 14.43	D	20
Delta-BHC	319-86-8	**0.489**	0.0500	0.00200	ug/L	09.09.14 16.13		1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.14 16.13	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.14 16.13	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.14 16.13	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.14 16.13	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.14 16.13	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.14 16.13	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.14 16.13	U	1
Gamma-BHC (Lindane)	58-89-9	**0.189**	0.0500	0.00160	ug/L	09.09.14 16.13		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.14 16.13	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.14 16.13	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.14 16.13	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.14 16.13	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.14 16.13	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	09.09.14 16.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	91	%	27-135	09.09.14 16.13	
Decachlorobiphenyl	2051-24-3	111	%	26-154	09.09.14 16.13	

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Sample Id: **MW-10 DUP** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-012 Date Collected: 09.03.14 17.43

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 09.45

Seq Number: 950367

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.14 16.33	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.14 16.33	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.14 16.33	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.14 16.33	U	1
Alpha-BHC	319-84-6	**0.473**	0.0500	0.0101	ug/L	09.09.14 16.33		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.14 16.33	U	1
Beta-BHC	319-85-7	**8.20**	1.00	0.0460	ug/L	09.10.14 15.03	D	20
Delta-BHC	319-86-8	**0.536**	0.0500	0.00200	ug/L	09.09.14 16.33		1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.14 16.33	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.14 16.33	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.14 16.33	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.14 16.33	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.14 16.33	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.14 16.33	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.14 16.33	U	1
Gamma-BHC (Lindane)	58-89-9	**0.200**	0.0500	0.00160	ug/L	09.09.14 16.33		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.14 16.33	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.14 16.33	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.14 16.33	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.14 16.33	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.14 16.33	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	09.09.14 16.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	97	%	27-135	09.09.14 16.33	
Decachlorobiphenyl	2051-24-3	113	%	26-154	09.09.14 16.33	

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Sample Id: **MW-11** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-013 Date Collected: 09.03.14 10.25

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 09.45

Seq Number: 950367

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.14 16.53	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.14 16.53	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.14 16.53	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.14 16.53	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	09.09.14 16.53	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.14 16.53	U	1
Beta-BHC	319-85-7	**0.0181**	0.0500	0.00230	ug/L	09.09.14 16.53	J	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.09.14 16.53	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.14 16.53	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.14 16.53	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.14 16.53	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.14 16.53	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.14 16.53	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.14 16.53	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.14 16.53	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	09.09.14 16.53	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.14 16.53	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.14 16.53	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.14 16.53	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.14 16.53	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.14 16.53	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	09.09.14 16.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	95	%	27-135	09.09.14 16.53	
Decachlorobiphenyl	2051-24-3	106	%	26-154	09.09.14 16.53	

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Sample Id: **MW-12** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-014 Date Collected: 09.02.14 20.24

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 09.45

Seq Number: 950367

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.14 17.14	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.14 17.14	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.14 17.14	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.14 17.14	U	1
Alpha-BHC	319-84-6	**0.0227**	0.0500	0.0101	ug/L	09.09.14 17.14	J	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.14 17.14	U	1
Beta-BHC	319-85-7	**0.660**	0.0500	0.00230	ug/L	09.09.14 17.14		1
Delta-BHC	319-86-8	**0.00930**	0.0500	0.00200	ug/L	09.09.14 17.14	J	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.14 17.14	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.14 17.14	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.14 17.14	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.14 17.14	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.14 17.14	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.14 17.14	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.14 17.14	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0107**	0.0500	0.00160	ug/L	09.09.14 17.14	J	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.14 17.14	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.14 17.14	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.14 17.14	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.14 17.14	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.14 17.14	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	09.09.14 17.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	87	%	27-135	09.09.14 17.14	
Decachlorobiphenyl	2051-24-3	113	%	26-154	09.09.14 17.14	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-13** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-015 Date Collected: 09.02.14 15.15

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 09.45

Seq Number: 950367

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.14 17.34	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.14 17.34	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.14 17.34	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.14 17.34	U	1
Alpha-BHC	319-84-6	**0.0319**	0.0500	0.0101	ug/L	09.09.14 17.34	J	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.14 17.34	U	1
Beta-BHC	319-85-7	**3.87**	0.500	0.0230	ug/L	09.10.14 15.23	D	10
Delta-BHC	319-86-8	**0.0782**	0.0500	0.00200	ug/L	09.09.14 17.34		1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.14 17.34	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.14 17.34	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.14 17.34	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.14 17.34	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.14 17.34	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.14 17.34	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.14 17.34	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0517**	0.0500	0.00160	ug/L	09.09.14 17.34		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.14 17.34	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.14 17.34	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.14 17.34	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.14 17.34	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.14 17.34	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	09.09.14 17.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	95	%	27-135	09.09.14 17.34	
Decachlorobiphenyl	2051-24-3	109	%	26-154	09.09.14 17.34	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-14** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-016 Date Collected: 09.04.14 18.09

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 09.45

Seq Number: 950367

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.14 17.54	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.14 17.54	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.14 17.54	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.14 17.54	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	09.09.14 17.54	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.14 17.54	U	1
Beta-BHC	319-85-7	**0.311**	0.0500	0.00230	ug/L	09.09.14 17.54		1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.09.14 17.54	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.14 17.54	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.14 17.54	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.14 17.54	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.14 17.54	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.14 17.54	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.14 17.54	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.14 17.54	U	1
Gamma-BHC (Lindane)	58-89-9	**0.00250**	0.0500	0.00160	ug/L	09.09.14 17.54	J	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.14 17.54	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.14 17.54	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.14 17.54	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.14 17.54	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.14 17.54	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	09.09.14 17.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	92	%	27-135	09.09.14 17.54	
Decachlorobiphenyl	2051-24-3	108	%	26-154	09.09.14 17.54	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-15** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-017 Date Collected: 09.05.14 14.04

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 09.45

Seq Number: 950367

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.14 18.14	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.14 18.14	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.14 18.14	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.14 18.14	U	1
Alpha-BHC	319-84-6	**0.139**	0.0500	0.0101	ug/L	09.09.14 18.14		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.14 18.14	U	1
Beta-BHC	319-85-7	**0.587**	0.0500	0.00230	ug/L	09.09.14 18.14		1
Delta-BHC	319-86-8	**0.0174**	0.0500	0.00200	ug/L	09.09.14 18.14	J	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.14 18.14	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.14 18.14	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.14 18.14	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.14 18.14	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.14 18.14	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.14 18.14	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.14 18.14	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0865**	0.0500	0.00160	ug/L	09.09.14 18.14		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.14 18.14	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.14 18.14	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.14 18.14	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.14 18.14	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.14 18.14	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	09.09.14 18.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	97	%	27-135	09.09.14 18.14	
Decachlorobiphenyl	2051-24-3	104	%	26-154	09.09.14 18.14	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-16** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-018 Date Collected: 09.03.14 16.45

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 09.45

Seq Number: 950367

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.14 18.34	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.14 18.34	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.14 18.34	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.14 18.34	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	09.09.14 18.34	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.14 18.34	U	1
Beta-BHC	319-85-7	U	0.0500	0.00230	ug/L	09.09.14 18.34	U	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.09.14 18.34	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.14 18.34	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.14 18.34	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.14 18.34	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.14 18.34	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.14 18.34	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.14 18.34	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.14 18.34	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	09.09.14 18.34	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.14 18.34	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.14 18.34	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.14 18.34	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.14 18.34	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.14 18.34	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	09.09.14 18.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	0	%	27-135	09.09.14 18.34	**
Decachlorobiphenyl	2051-24-3	0	%	26-154	09.09.14 18.34	**

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-17** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-019 Date Collected: 09.02.14 17.56

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 09.45

Seq Number: 950367

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0990	0.00366	ug/L	09.09.14 19.15	U	1
4,4-DDE	72-55-9	U	0.0990	0.00347	ug/L	09.09.14 19.15	U	1
4,4-DDT	50-29-3	U	0.0990	0.00485	ug/L	09.09.14 19.15	U	1
Aldrin	309-00-2	U	0.0495	0.00257	ug/L	09.09.14 19.15	U	1
Alpha-BHC	319-84-6	U	0.0495	0.0100	ug/L	09.09.14 19.15	U	1
Alpha-Chlordane	5103-71-9	U	0.0495	0.00218	ug/L	09.09.14 19.15	U	1
Beta-BHC	319-85-7	**0.218**	0.0495	0.00228	ug/L	09.09.14 19.15		1
Delta-BHC	319-86-8	**0.0105**	0.0495	0.00198	ug/L	09.09.14 19.15	J	1
Dieldrin	60-57-1	U	0.0990	0.00426	ug/L	09.09.14 19.15	U	1
Endosulfan I	959-98-8	U	0.0495	0.00238	ug/L	09.09.14 19.15	U	1
Endosulfan II	33213-65-9	U	0.0990	0.00446	ug/L	09.09.14 19.15	U	1
Endosulfan Sulfate	1031-07-8	U	0.0990	0.00693	ug/L	09.09.14 19.15	U	1
Endrin	72-20-8	U	0.0990	0.00455	ug/L	09.09.14 19.15	U	1
Endrin Aldehyde	7421-93-4	U	0.0990	0.00851	ug/L	09.09.14 19.15	U	1
Endrin Ketone	53494-70-5	U	0.0990	0.00446	ug/L	09.09.14 19.15	U	1
Gamma-BHC (Lindane)	58-89-9	**0.00287**	0.0495	0.00158	ug/L	09.09.14 19.15	J	1
Gamma-Chlordane	5103-74-2	U	0.0495	0.00178	ug/L	09.09.14 19.15	U	1
Heptachlor	76-44-8	U	0.0495	0.00287	ug/L	09.09.14 19.15	U	1
Heptachlor Epoxide	1024-57-3	U	0.0495	0.00277	ug/L	09.09.14 19.15	U	1
Methoxychlor	72-43-5	U	0.495	0.0285	ug/L	09.09.14 19.15	U	1
Chlordane	12789-03-6	U	0.495	0.0953	ug/L	09.09.14 19.15	U	1
Toxaphene	8001-35-2	U	2.48	0.419	ug/L	09.09.14 19.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	75	%	27-135	09.09.14 19.15	
Decachlorobiphenyl	2051-24-3	97	%	26-154	09.09.14 19.15	

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Sample Id: **MW-18** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-020 Date Collected: 09.04.14 15.15

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 09.45

Seq Number: 950367

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0990	0.00366	ug/L	09.09.14 19.35	U	1
4,4-DDE	72-55-9	U	0.0990	0.00347	ug/L	09.09.14 19.35	U	1
4,4-DDT	50-29-3	U	0.0990	0.00485	ug/L	09.09.14 19.35	U	1
Aldrin	309-00-2	U	0.0495	0.00257	ug/L	09.09.14 19.35	U	1
Alpha-BHC	319-84-6	U	0.0495	0.0100	ug/L	09.09.14 19.35	U	1
Alpha-Chlordane	5103-71-9	U	0.0495	0.00218	ug/L	09.09.14 19.35	U	1
Beta-BHC	319-85-7	**0.102**	0.0495	0.00228	ug/L	09.09.14 19.35		1
Delta-BHC	319-86-8	U	0.0495	0.00198	ug/L	09.09.14 19.35	U	1
Dieldrin	60-57-1	U	0.0990	0.00426	ug/L	09.09.14 19.35	U	1
Endosulfan I	959-98-8	U	0.0495	0.00238	ug/L	09.09.14 19.35	U	1
Endosulfan II	33213-65-9	U	0.0990	0.00446	ug/L	09.09.14 19.35	U	1
Endosulfan Sulfate	1031-07-8	U	0.0990	0.00693	ug/L	09.09.14 19.35	U	1
Endrin	72-20-8	U	0.0990	0.00455	ug/L	09.09.14 19.35	U	1
Endrin Aldehyde	7421-93-4	U	0.0990	0.00851	ug/L	09.09.14 19.35	U	1
Endrin Ketone	53494-70-5	U	0.0990	0.00446	ug/L	09.09.14 19.35	U	1
Gamma-BHC (Lindane)	58-89-9	**0.00327**	0.0495	0.00158	ug/L	09.09.14 19.35	J	1
Gamma-Chlordane	5103-74-2	U	0.0495	0.00178	ug/L	09.09.14 19.35	UX	1
Heptachlor	76-44-8	U	0.0495	0.00287	ug/L	09.09.14 19.35	U	1
Heptachlor Epoxide	1024-57-3	U	0.0495	0.00277	ug/L	09.09.14 19.35	U	1
Methoxychlor	72-43-5	U	0.495	0.0285	ug/L	09.09.14 19.35	U	1
Chlordane	12789-03-6	U	0.495	0.0953	ug/L	09.09.14 19.35	U	1
Toxaphene	8001-35-2	U	2.48	0.419	ug/L	09.09.14 19.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	94	%	27-135	09.09.14 19.35	
Decachlorobiphenyl	2051-24-3	108	%	26-154	09.09.14 19.35	

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GPA Bainbridge

Sample Id: **MW-19** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-021 Date Collected: 09.04.14 15.15

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 10.55

Seq Number: 950379

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0990	0.00366	ug/L	09.09.14 21.57	U	1
4,4-DDE	72-55-9	U	0.0990	0.00347	ug/L	09.09.14 21.57	U	1
4,4-DDT	50-29-3	U	0.0990	0.00485	ug/L	09.09.14 21.57	U	1
Aldrin	309-00-2	U	0.0495	0.00257	ug/L	09.09.14 21.57	U	1
Alpha-BHC	319-84-6	U	0.0495	0.0100	ug/L	09.09.14 21.57	U	1
Alpha-Chlordane	5103-71-9	U	0.0495	0.00218	ug/L	09.09.14 21.57	U	1
Beta-BHC	319-85-7	**0.0762**	0.0495	0.00228	ug/L	09.09.14 21.57		1
Delta-BHC	319-86-8	**0.00515**	0.0495	0.00198	ug/L	09.09.14 21.57	J	1
Dieldrin	60-57-1	U	0.0990	0.00426	ug/L	09.09.14 21.57	U	1
Endosulfan I	959-98-8	U	0.0495	0.00238	ug/L	09.09.14 21.57	U	1
Endosulfan II	33213-65-9	U	0.0990	0.00446	ug/L	09.09.14 21.57	U	1
Endosulfan Sulfate	1031-07-8	U	0.0990	0.00693	ug/L	09.09.14 21.57	U	1
Endrin	72-20-8	U	0.0990	0.00455	ug/L	09.09.14 21.57	U	1
Endrin Aldehyde	7421-93-4	U	0.0990	0.00851	ug/L	09.09.14 21.57	U	1
Endrin Ketone	53494-70-5	U	0.0990	0.00446	ug/L	09.09.14 21.57	U	1
Gamma-BHC (Lindane)	58-89-9	**0.00891**	0.0495	0.00158	ug/L	09.09.14 21.57	J	1
Gamma-Chlordane	5103-74-2	U	0.0495	0.00178	ug/L	09.09.14 21.57	U	1
Heptachlor	76-44-8	U	0.0495	0.00287	ug/L	09.09.14 21.57	U	1
Heptachlor Epoxide	1024-57-3	U	0.0495	0.00277	ug/L	09.09.14 21.57	U	1
Methoxychlor	72-43-5	U	0.495	0.0285	ug/L	09.09.14 21.57	U	1
Chlordane	12789-03-6	U	0.495	0.0953	ug/L	09.09.14 21.57	U	1
Toxaphene	8001-35-2	U	2.48	0.419	ug/L	09.09.14 21.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	69	%	27-135	09.09.14 21.57	
Decachlorobiphenyl	2051-24-3	98	%	26-154	09.09.14 21.57	

Certificate of Analytical Results 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-20** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-022 Date Collected: 09.03.14 16.14

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 10.55

Seq Number: 950379

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0990	0.00366	ug/L	09.09.14 22.17	U	1
4,4-DDE	72-55-9	U	0.0990	0.00347	ug/L	09.09.14 22.17	U	1
4,4-DDT	50-29-3	U	0.0990	0.00485	ug/L	09.09.14 22.17	U	1
Aldrin	309-00-2	U	0.0495	0.00257	ug/L	09.09.14 22.17	U	1
Alpha-BHC	319-84-6	**0.0803**	0.0495	0.0100	ug/L	09.09.14 22.17		1
Alpha-Chlordane	5103-71-9	U	0.0495	0.00218	ug/L	09.09.14 22.17	U	1
Beta-BHC	319-85-7	**12.4**	2.48	0.114	ug/L	09.10.14 16.24	D	50
Delta-BHC	319-86-8	**0.469**	0.0495	0.00198	ug/L	09.09.14 22.17		1
Dieldrin	60-57-1	U	0.0990	0.00426	ug/L	09.09.14 22.17	U	1
Endosulfan I	959-98-8	U	0.0495	0.00238	ug/L	09.09.14 22.17	U	1
Endosulfan II	33213-65-9	U	0.0990	0.00446	ug/L	09.09.14 22.17	U	1
Endosulfan Sulfate	1031-07-8	U	0.0990	0.00693	ug/L	09.09.14 22.17	U	1
Endrin	72-20-8	U	0.0990	0.00455	ug/L	09.09.14 22.17	U	1
Endrin Aldehyde	7421-93-4	U	0.0990	0.00851	ug/L	09.09.14 22.17	U	1
Endrin Ketone	53494-70-5	U	0.0990	0.00446	ug/L	09.09.14 22.17	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0740**	0.0495	0.00158	ug/L	09.09.14 22.17		1
Gamma-Chlordane	5103-74-2	U	0.0495	0.00178	ug/L	09.09.14 22.17	U	1
Heptachlor	76-44-8	U	0.0495	0.00287	ug/L	09.09.14 22.17	U	1
Heptachlor Epoxide	1024-57-3	U	0.0495	0.00277	ug/L	09.09.14 22.17	U	1
Methoxychlor	72-43-5	U	0.495	0.0285	ug/L	09.09.14 22.17	U	1
Chlordane	12789-03-6	U	0.495	0.0953	ug/L	09.09.14 22.17	U	1
Toxaphene	8001-35-2	U	2.48	0.419	ug/L	09.09.14 22.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	105	%	27-135	09.09.14 22.17	
Decachlorobiphenyl	2051-24-3	108	%	26-154	09.09.14 22.17	

Certificate of Analytical Results 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-21** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-023 Date Collected: 09.05.14 10.46

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 10.55

Seq Number: 950379

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0990	0.00366	ug/L	09.09.14 22.37	U	1
4,4-DDE	72-55-9	U	0.0990	0.00347	ug/L	09.09.14 22.37	U	1
4,4-DDT	50-29-3	U	0.0990	0.00485	ug/L	09.09.14 22.37	U	1
Aldrin	309-00-2	U	0.0495	0.00257	ug/L	09.09.14 22.37	U	1
Alpha-BHC	319-84-6	**0.359**	0.0495	0.0100	ug/L	09.09.14 22.37		1
Alpha-Chlordane	5103-71-9	U	0.0495	0.00218	ug/L	09.09.14 22.37	U	1
Beta-BHC	319-85-7	**5.52**	0.495	0.0228	ug/L	09.10.14 17.04	D	10
Delta-BHC	319-86-8	**0.574**	0.0495	0.00198	ug/L	09.09.14 22.37		1
Dieldrin	60-57-1	U	0.0990	0.00426	ug/L	09.09.14 22.37	U	1
Endosulfan I	959-98-8	U	0.0495	0.00238	ug/L	09.09.14 22.37	U	1
Endosulfan II	33213-65-9	U	0.0990	0.00446	ug/L	09.09.14 22.37	U	1
Endosulfan Sulfate	1031-07-8	U	0.0990	0.00693	ug/L	09.09.14 22.37	U	1
Endrin	72-20-8	U	0.0990	0.00455	ug/L	09.09.14 22.37	U	1
Endrin Aldehyde	7421-93-4	U	0.0990	0.00851	ug/L	09.09.14 22.37	U	1
Endrin Ketone	53494-70-5	U	0.0990	0.00446	ug/L	09.09.14 22.37	U	1
Gamma-BHC (Lindane)	58-89-9	**0.280**	0.0495	0.00158	ug/L	09.09.14 22.37		1
Gamma-Chlordane	5103-74-2	U	0.0495	0.00178	ug/L	09.09.14 22.37	U	1
Heptachlor	76-44-8	U	0.0495	0.00287	ug/L	09.09.14 22.37	U	1
Heptachlor Epoxide	1024-57-3	U	0.0495	0.00277	ug/L	09.09.14 22.37	U	1
Methoxychlor	72-43-5	U	0.495	0.0285	ug/L	09.09.14 22.37	U	1
Chlordane	12789-03-6	U	0.495	0.0953	ug/L	09.09.14 22.37	U	1
Toxaphene	8001-35-2	U	2.48	0.419	ug/L	09.09.14 22.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	86	%	27-135	09.09.14 22.37	
Decachlorobiphenyl	2051-24-3	107	%	26-154	09.09.14 22.37	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-22** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-024 Date Collected: 09.05.14 10.39

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 10.55

Seq Number: 950379

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0990	0.00366	ug/L	09.09.14 22.57	U	1
4,4-DDE	72-55-9	U	0.0990	0.00347	ug/L	09.09.14 22.57	U	1
4,4-DDT	50-29-3	U	0.0990	0.00485	ug/L	09.09.14 22.57	U	1
Aldrin	309-00-2	U	0.0495	0.00257	ug/L	09.09.14 22.57	U	1
Alpha-BHC	319-84-6	**1.01**	0.248	0.0500	ug/L	09.10.14 17.25	D	5
Alpha-Chlordane	5103-71-9	U	0.0495	0.00218	ug/L	09.09.14 22.57	U	1
Beta-BHC	319-85-7	**37.2**	2.48	0.114	ug/L	09.10.14 17.45	D	50
Delta-BHC	319-86-8	**22.4**	2.48	0.0990	ug/L	09.10.14 17.45	D	50
Dieldrin	60-57-1	U	0.0990	0.00426	ug/L	09.09.14 22.57	U	1
Endosulfan I	959-98-8	U	0.0495	0.00238	ug/L	09.09.14 22.57	U	1
Endosulfan II	33213-65-9	U	0.0990	0.00446	ug/L	09.09.14 22.57	U	1
Endosulfan Sulfate	1031-07-8	U	0.0990	0.00693	ug/L	09.09.14 22.57	U	1
Endrin	72-20-8	U	0.0990	0.00455	ug/L	09.09.14 22.57	U	1
Endrin Aldehyde	7421-93-4	U	0.0990	0.00851	ug/L	09.09.14 22.57	U	1
Endrin Ketone	53494-70-5	U	0.0990	0.00446	ug/L	09.09.14 22.57	U	1
Gamma-BHC (Lindane)	58-89-9	**0.365**	0.0495	0.00158	ug/L	09.09.14 22.57		1
Gamma-Chlordane	5103-74-2	U	0.0495	0.00178	ug/L	09.09.14 22.57	U	1
Heptachlor	76-44-8	U	0.0495	0.00287	ug/L	09.09.14 22.57	U	1
Heptachlor Epoxide	1024-57-3	U	0.0495	0.00277	ug/L	09.09.14 22.57	U	1
Methoxychlor	72-43-5	U	0.495	0.0285	ug/L	09.09.14 22.57	U	1
Chlordane	12789-03-6	U	0.495	0.0953	ug/L	09.09.14 22.57	U	1
Toxaphene	8001-35-2	U	2.48	0.419	ug/L	09.09.14 22.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	107	%	27-135	09.09.14 22.57	
Decachlorobiphenyl	2051-24-3	109	%	26-154	09.09.14 22.57	

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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-23** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-025 Date Collected: 09.05.14 12.27

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 10.55

Seq Number: 950379

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.09.14 23.58	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.09.14 23.58	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.09.14 23.58	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.09.14 23.58	U	1
Alpha-BHC	319-84-6	**0.0227**	0.0500	0.0101	ug/L	09.09.14 23.58	J	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.09.14 23.58	U	1
Beta-BHC	319-85-7	**5.17**	0.500	0.0230	ug/L	09.10.14 18.05	D	10
Delta-BHC	319-86-8	**0.0174**	0.0500	0.00200	ug/L	09.09.14 23.58	J	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.09.14 23.58	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.09.14 23.58	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.09.14 23.58	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.09.14 23.58	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.09.14 23.58	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.09.14 23.58	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.09.14 23.58	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0517**	0.0500	0.00160	ug/L	09.09.14 23.58		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.09.14 23.58	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.09.14 23.58	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.09.14 23.58	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.09.14 23.58	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.09.14 23.58	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	09.09.14 23.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	95	%	27-135	09.09.14 23.58	
Decachlorobiphenyl	2051-24-3	106	%	26-154	09.09.14 23.58	

Certificate of Analytical Results 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **MW-6 Tubing Rinsate** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-026 Date Collected: 09.02.14 19.17

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 10.55

Seq Number: 950379

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.10.14 00.18	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.10.14 00.18	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.10.14 00.18	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.10.14 00.18	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	09.10.14 00.18	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.10.14 00.18	U	1
Beta-BHC	319-85-7	**0.102**	0.0500	0.00230	ug/L	09.10.14 00.18		1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.10.14 00.18	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.10.14 00.18	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.10.14 00.18	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.10.14 00.18	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.10.14 00.18	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.10.14 00.18	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.10.14 00.18	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.10.14 00.18	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	09.10.14 00.18	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.10.14 00.18	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.10.14 00.18	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.10.14 00.18	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.10.14 00.18	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.10.14 00.18	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	09.10.14 00.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	97	%	27-135	09.10.14 00.18	
Decachlorobiphenyl	2051-24-3	99	%	26-154	09.10.14 00.18	

Certificate of Analytical Results 492804

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

Sample Id: **Equipment Blank** Matrix: Ground Water Date Received:09.06.14 10.44

Lab Sample Id: 492804-027 Date Collected: 09.05.14 08.30

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 09.08.14 10.55

Seq Number: 950379

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	09.10.14 00.38	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	09.10.14 00.38	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	09.10.14 00.38	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	09.10.14 00.38	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	09.10.14 00.38	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	09.10.14 00.38	U	1
Beta-BHC	319-85-7	U	0.0500	0.00230	ug/L	09.10.14 00.38	U	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	09.10.14 00.38	U	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	09.10.14 00.38	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	09.10.14 00.38	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	09.10.14 00.38	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	09.10.14 00.38	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	09.10.14 00.38	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	09.10.14 00.38	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	09.10.14 00.38	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	09.10.14 00.38	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	09.10.14 00.38	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	09.10.14 00.38	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	09.10.14 00.38	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	09.10.14 00.38	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	09.10.14 00.38	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	09.10.14 00.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	97	%	27-135	09.10.14 00.38	
Decachlorobiphenyl	2051-24-3	109	%	26-154	09.10.14 00.38	

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

QC Summary 492804

Environmental International Corporation

GPA Bainbridge

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

Seq Number: 950367 Matrix: Water Date Prep: 09.08.14

MB Sample Id: 661184-1-BLK LCS Sample Id: 661184-1-BKS LCSD Sample Id: 661184-1-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	<0.00370	0.500	0.456	91	0.459	92	20-152	1	30	ug/L	09.09.14 11:10	
4,4-DDE	<0.00350	0.500	0.484	97	0.489	98	18-147	1	30	ug/L	09.09.14 11:10	
4,4-DDT	<0.00490	0.500	0.510	102	0.514	103	18-164	1	30	ug/L	09.09.14 11:10	
Aldrin	<0.00260	0.500	0.457	91	0.463	93	11-131	1	30	ug/L	09.09.14 11:10	
Alpha-BHC	<0.0101	0.500	0.451	90	0.457	91	24-141	1	30	ug/L	09.09.14 11:10	
Alpha-Chlordane	<0.00220	0.500	0.518	104	0.524	105	37-135	1	30	ug/L	09.09.14 11:10	
Beta-BHC	<0.00230	0.500	0.496	99	0.505	101	12-162	2	30	ug/L	09.09.14 11:10	
Delta-BHC	<0.00200	0.500	0.543	109	0.535	107	19-147	1	30	ug/L	09.09.14 11:10	
Dieldrin	<0.00430	0.500	0.521	104	0.527	105	35-140	1	30	ug/L	09.09.14 11:10	
Endosulfan I	<0.00240	0.500	0.390	78	0.394	79	20-135	1	30	ug/L	09.09.14 11:10	
Endosulfan II	<0.00450	0.500	0.442	88	0.448	90	34-122	1	30	ug/L	09.09.14 11:10	
Endosulfan Sulfate	<0.00700	0.500	0.542	108	0.534	107	41-145	1	30	ug/L	09.09.14 11:10	
Endrin	<0.00460	0.500	0.477	95	0.484	97	36-158	1	30	ug/L	09.09.14 11:10	
Endrin Aldehyde	<0.00860	0.500	0.527	105	0.531	106	28-135	1	30	ug/L	09.09.14 11:10	
Endrin Ketone	<0.00450	0.500	0.567	113	0.561	112	42-134	1	30	ug/L	09.09.14 11:10	
Gamma-BHC (Lindane)	<0.00160	0.500	0.460	92	0.467	93	23-143	2	30	ug/L	09.09.14 11:10	
Gamma-Chlordane	<0.00180	0.500	0.519	104	0.525	105	25-112	1	30	ug/L	09.09.14 11:10	
Heptachlor	<0.00290	0.500	0.430	86	0.436	87	20-142	1	30	ug/L	09.09.14 11:10	
Heptachlor Epoxide	<0.00280	0.500	0.511	102	0.518	104	32-134	1	30	ug/L	09.09.14 11:10	
Methoxychlor	<0.0288	0.500	0.520	104	0.522	104	36-169	0	30	ug/L	09.09.14 11:10	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	206	**	84		84		27-135	%	09.09.14 11:10
Decachlorobiphenyl	112		108		109		26-154	%	09.09.14 11:10

QC Summary 492804

Environmental International Corporation

GPA Bainbridge

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

Seq Number: 950379 Matrix: Water Date Prep: 09.08.14

MB Sample Id: 661187-1-BLK LCS Sample Id: 661187-1-BKS LCSD Sample Id: 661187-1-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	<0.00370	0.500	0.489	98	0.483	97	20-152	1	30	ug/L	09.09.14 21:16	
4,4-DDE	<0.00350	0.500	0.501	100	0.497	99	18-147	1	30	ug/L	09.09.14 21:16	
4,4-DDT	<0.00490	0.500	0.551	110	0.540	108	18-164	2	30	ug/L	09.09.14 21:16	
Aldrin	<0.00260	0.500	0.480	96	0.477	95	11-131	1	30	ug/L	09.09.14 21:16	
Alpha-BHC	<0.0101	0.500	0.476	95	0.472	94	24-141	1	30	ug/L	09.09.14 21:16	
Alpha-Chlordane	<0.00220	0.500	0.540	108	0.539	108	37-135	0	30	ug/L	09.09.14 21:16	
Beta-BHC	<0.00230	0.500	0.522	104	0.517	103	12-162	1	30	ug/L	09.09.14 21:16	
Delta-BHC	<0.00200	0.500	0.537	107	0.576	115	19-147	7	30	ug/L	09.09.14 21:16	
Dieldrin	<0.00430	0.500	0.549	110	0.546	109	35-140	1	30	ug/L	09.09.14 21:16	
Endosulfan I	<0.00240	0.500	0.407	81	0.405	81	20-135	0	30	ug/L	09.09.14 21:16	
Endosulfan II	<0.00450	0.500	0.464	93	0.463	93	34-122	0	30	ug/L	09.09.14 21:16	
Endosulfan Sulfate	<0.00700	0.500	0.591	118	0.586	117	41-145	1	30	ug/L	09.09.14 21:16	
Endrin	<0.00460	0.500	0.549	110	0.542	108	36-158	1	30	ug/L	09.09.14 21:16	
Endrin Aldehyde	<0.00860	0.500	0.543	109	0.539	108	28-135	1	30	ug/L	09.09.14 21:16	
Endrin Ketone	<0.00450	0.500	0.596	119	0.593	119	42-134	1	30	ug/L	09.09.14 21:16	
Gamma-BHC (Lindane)	<0.00160	0.500	0.484	97	0.481	96	23-143	1	30	ug/L	09.09.14 21:16	
Gamma-Chlordane	<0.00180	0.500	0.542	108	0.540	108	25-112	0	30	ug/L	09.09.14 21:16	
Heptachlor	<0.00290	0.500	0.451	90	0.447	89	20-142	1	30	ug/L	09.09.14 21:16	
Heptachlor Epoxide	<0.00280	0.500	0.536	107	0.534	107	32-134	0	30	ug/L	09.09.14 21:16	
Methoxychlor	<0.0288	0.500	0.579	116	0.568	114	36-169	2	30	ug/L	09.09.14 21:16	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	214	**	87		92		27-135	%	09.09.14 21:16
Decachlorobiphenyl	115		112		112		26-154	%	09.09.14 21:16

Environmental International Corporation

GPA Bainbridge

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

Seq Number: 950367 Matrix: Ground Water Date Prep: 09.08.14

Parent Sample Id: 492804-020 MS Sample Id: 492804-020 S MSD Sample Id: 492804-020 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
4,4-DDD	<0.00370	0.500	0.592	118	0.603	121	20-152	2	30	ug/L	09.09.14 19:55	
4,4-DDE	<0.00350	0.500	0.546	109	0.557	111	18-147	2	30	ug/L	09.09.14 19:55	
4,4-DDT	<0.00490	0.500	0.610	122	0.622	124	18-164	2	30	ug/L	09.09.14 19:55	
Aldrin	<0.00260	0.500	0.531	106	0.556	111	11-131	5	30	ug/L	09.09.14 19:55	
Alpha-BHC	<0.0101	0.500	0.534	107	0.562	112	24-141	5	30	ug/L	09.09.14 19:55	
Alpha-Chlordane	<0.00220	0.500	0.564	113	0.586	117	37-135	4	30	ug/L	09.09.14 19:55	
Beta-BHC	0.102	0.500	0.681	116	0.690	118	12-162	1	30	ug/L	09.09.14 19:55	
Delta-BHC	<0.00200	0.500	0.602	120	0.597	119	19-147	1	30	ug/L	09.09.14 19:55	
Dieldrin	<0.00430	0.500	0.556	111	0.581	116	35-140	4	30	ug/L	09.09.14 19:55	
Endosulfan I	<0.00240	0.500	0.433	87	0.445	89	20-135	3	30	ug/L	09.09.14 19:55	
Endosulfan II	<0.00450	0.500	0.481	96	0.492	98	34-122	2	30	ug/L	09.09.14 19:55	
Endosulfan Sulfate	<0.00700	0.500	0.559	112	0.636	127	41-145	13	30	ug/L	09.09.14 19:55	
Endrin	<0.00460	0.500	0.614	123	0.638	128	36-158	4	30	ug/L	09.09.14 19:55	
Endrin Aldehyde	<0.00860	0.500	0.558	112	0.563	113	28-135	1	30	ug/L	09.09.14 19:55	
Endrin Ketone	<0.00450	0.500	0.599	120	0.611	122	42-134	2	30	ug/L	09.09.14 19:55	
Gamma-BHC (Lindane)	0.00287	0.500	0.543	108	0.562	112	23-143	3	30	ug/L	09.09.14 19:55	
Gamma-Chlordane	<0.00180	0.500	0.558	112	0.586	117	25-112	5	30	ug/L	09.09.14 19:55	X
Heptachlor	<0.00290	0.500	0.497	99	0.520	104	20-142	5	30	ug/L	09.09.14 19:55	
Heptachlor Epoxide	<0.00280	0.500	0.567	113	0.586	117	32-134	3	30	ug/L	09.09.14 19:55	
Methoxychlor	<0.0288	0.500	0.663	133	0.837	167	36-169	23	30	ug/L	09.09.14 19:55	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	89		103		27-135	%	09.09.14 19:55
Decachlorobiphenyl	112		118		26-154	%	09.09.14 19:55

QC Summary 492804

Environmental International Corporation

GPA Bainbridge

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

Seq Number: 950379 Matrix: Ground Water Date Prep: 09.08.14

Parent Sample Id: 492804-024 MS Sample Id: 492804-024 S MSD Sample Id: 492804-024 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
4,4-DDD	<0.00370	0.500	0.480	96	0.410	82	20-152	16	30	ug/L	09.09.14 23:18	
4,4-DDE	<0.00350	0.500	0.539	108	0.447	89	18-147	19	30	ug/L	09.09.14 23:18	
4,4-DDT	<0.00490	0.500	0.572	114	0.520	104	18-164	10	30	ug/L	09.09.14 23:18	
Aldrin	<0.00260	0.500	0.541	108	0.490	98	11-131	10	30	ug/L	09.09.14 23:18	
Alpha-BHC	1.14	0.500	2.22	216	2.11	194	24-141	5	30	ug/L	09.09.14 23:18	X
Alpha-Chlordane	<0.00220	0.500	0.542	108	0.472	94	37-135	14	30	ug/L	09.09.14 23:18	
Beta-BHC	39.6	0.500	50.2	2120	43.5	780	12-162	14	30	ug/L	09.09.14 23:18	X
Delta-BHC	27.0	0.500	33.1	1220	29.2	440	19-147	13	30	ug/L	09.09.14 23:18	X
Dieldrin	<0.00430	0.500	0.608	122	0.544	109	35-140	11	30	ug/L	09.09.14 23:18	
Endosulfan I	<0.00240	0.500	0.485	97	0.405	81	20-135	18	30	ug/L	09.09.14 23:18	
Endosulfan II	<0.00450	0.500	0.532	106	0.533	107	34-122	0	30	ug/L	09.09.14 23:18	
Endosulfan Sulfate	<0.00700	0.500	0.625	125	0.601	120	41-145	4	30	ug/L	09.09.14 23:18	
Endrin	<0.00460	0.500	0.681	136	0.556	111	36-158	20	30	ug/L	09.09.14 23:18	
Endrin Aldehyde	<0.00860	0.500	0.547	109	0.511	102	28-135	7	30	ug/L	09.09.14 23:18	
Endrin Ketone	<0.00450	0.500	0.666	133	0.628	126	42-134	6	30	ug/L	09.09.14 23:18	
Gamma-BHC (Lindane)	0.346	0.500	0.965	124	0.900	111	23-143	7	30	ug/L	09.09.14 23:18	
Gamma-Chlordane	<0.00180	0.500	0.476	95	0.497	99	25-112	4	30	ug/L	09.09.14 23:18	
Heptachlor	<0.00290	0.500	0.455	91	0.447	89	20-142	2	30	ug/L	09.09.14 23:18	
Heptachlor Epoxide	<0.00280	0.500	0.517	103	0.492	98	32-134	5	30	ug/L	09.09.14 23:18	
Methoxychlor	<0.0288	0.500	0.590	118	0.546	109	36-169	8	30	ug/L	09.09.14 23:18	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	104		76		27-135	%	09.09.14 23:18
Decachlorobiphenyl	127		1	**	26-154	%	09.09.14 23:18

XENCO LABORATORIES
CHAIN OF CUSTODY

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: EIC	Receiver's Initials/Temp: AC / 5.2°C
Address: 161 Kimball Bridge Rd. Alpharetta, GA 30009	Custody Seal(s): ___ Y N Lab Work Order # 492804
Results Sent to: Alan Sanders	P.O.# (if required):
Email address: ASANDERS@EICUSA.COM	Field Comments / Lab Precautions:
Contact Phone #: 770-772-7100 Cell#:	
Project Name (Site): GPA Bainbridge	Analysis Requested
Project Number (ID): 400007-4.5 Container Type:	GA
Regulatory Program: Chemical Preservation Code:	
Sampler(s): (signature) Will Grant	Sampler(s): (printed) Will Grant

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	8081B/3660B
1	MW-1		9/4/14 11:19	GW		X	1	X
2	MW-1A		9/4/14 12:17	GW		X	1	X
3	MW-2		9/3/14 8:58	GW		X	1	X
4	MW-3		9/4/14 9:03	GW		X	1	X
5	MW-4U		9/4/14 10:02	GW		X	1	X
6	MW-5A		9/5/14 9:07	GW		X	1	X
7	MW-5D		9/3/14 19:40	GW		X	1	X
8	MW-6		9/4/14 19:07	GW		X	1	X
9	MW-7		9/3/14 15:09	GW		X	1	X
10	MW-8		9/3/14 18:50	GW		X	1	X

1) Relinquished By: Will Grant	Date / Time 9/6/14 10:44	2) Received By:	Date / Time 9/6/14 10:44	Delivered by: (Circle One) Fed Ex / UPS / Courier / Lab Pickup / Hand / Other
3) Relinquished By:	Date / Time	4) Received By:	Date / Time	Turnaround Time (business days) TAT Starts when samples are rec'd by 2PM
5) Relinquished By:	Date / Time	6) Received By:	Date / Time	___10 Days ; X 5-7 Days; ___3 Days ___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)

Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH

Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

XENCO LABORATORIES
CHAIN OF CUSTODY

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: EIC	Receiver's Initials/Temp: 0 / 3.2 C
Address: 161 Kimball Bridge Rd. Alpharetta, GA 30009	Custody Seal(s): ___ Y N Lab Work Order # 492804
Results Sent to: Alan Sanders	P.O.# (if required):
Email address: asanders@eicusa.com	Field Comments / Lab Precautions:
Contact Phone #: 770-772-7100 Cell#:	
Project Name (Site): GPA Bainbridge	
Project Number (ID): 400007-4.5	Container Type: GA
Regulatory Program:	Chemical Preservation Code:
Sampler(s): (signature)	Sampler(s): (printed)

Analysis Requested

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	8081B/36600
1	MW-10		9/3/14 17:43	GW		X	1	X
2	MW-10 Dup.		9/3/14 17:43	GW		X	1	X
3	MW-11		9/3/14 10:25	GW		X	1	X
4	MW-12		9/2/14 20:24	GW		X	1	X
5	MW-13		9/2/14 15:15	GW		X	1	X
6	MW-14		9/4/14 18:09	GW		X	1	X
7	MW-15		9/5/14 14:04	GW		X	1	X
8	MW-16		9/3/14 16:45	GW		X	1	X
9	MW-17		9/2/14 17:56	GW		X	1	X
10	MW-18		9/4/14 15:15	GW		X	1	X

1) Relinquished By: Will	Date / Time 9/16/14 10:44	2) Received By: Donna Lu	Date / Time 9/16/14 10:44
3) Relinquished By:	Date / Time	4) Received By:	Date / Time
5) Relinquished By:	Date / Time	6) Received By:	Date / Time

Delivered by: (Circle One)
Fed Ex / UPS / Courier / Lab Pickup / Hand / Other

Turnaround Time (business days)
TAT Starts when samples are rec'd by 2PM
___10 Days ; X 5-7 Days; ___3 Days
___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)

Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH

Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

XENCO LABORATORIES
CHAIN OF CUSTODY

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: EIC	Receiver's Initials/Temp: AC / 5.2
Address: 161 Kimball Bridge Rd. Alpharetta GA 30009	Custody Seal(s): ___ Y N Lab Work Order # 492804
Results Sent to: Alan Sanders	P.O.# (if required):
Email address: asanders@eicasa.com	Field Comments / Lab Precautions:
Contact Phone #: 770-772-7100 Cell#:	
Project Name (Site): GPA Bainbridge	
Project Number (ID): 400007-4.5	Container Type: GA
Regulatory Program:	Chemical Preservation Code:
Sampler(s): (signature)	Sampler(s): (printed)

Analysis Requested

60810/36606

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	
1	MW-18 Matrix Spike		9/4/14 15:15	GW		X	1	X
2	MW-19		9/3/14 16:14	GW		X	1	X
3	MW-20		9/5/14 10:46	GW		X	1	X
4	MW-21		9/5/14 10:39	GW		X	1	X
5	MW-22		9/5/14 12:27	GW		X	1	X
6	MW-22 Matrix Spike		9/5/14 12:27	GW		X	1	X
7	MW-23		9/2/14 19:17	GW		X	1	X
8	MW-6 Tubing Rinsate		9/5/14 9:38	GW		X	1	X
9	Equipment Blank		9/5/14 8:30	GW		X	1	X
10				GW				

1) Relinquished By:	Date / Time 9/6/14 10:44	2) Received By:	Date / Time 9/6/14 10:44
3) Relinquished By:	Date / Time	4) Received By:	Date / Time
5) Relinquished By:	Date / Time	6) Received By:	Date / Time

Delivered by: (Circle One)
Fed Ex / UPS / Courier / Lab Pickup / Hand / Other

Turnaround Time (business days)
TAT Starts when samples are rec'd by 2PM
___10 Days ; X 5-7 Days; ___3 Days
___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)

Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH

Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Florida Testing Services, LLC

Client: Environmental International Corporation

Date/ Time Received: 09/06/2014 10:44:00 AM

Work Order #: 492804

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)?	5.2
#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**
#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: 09/06/2014

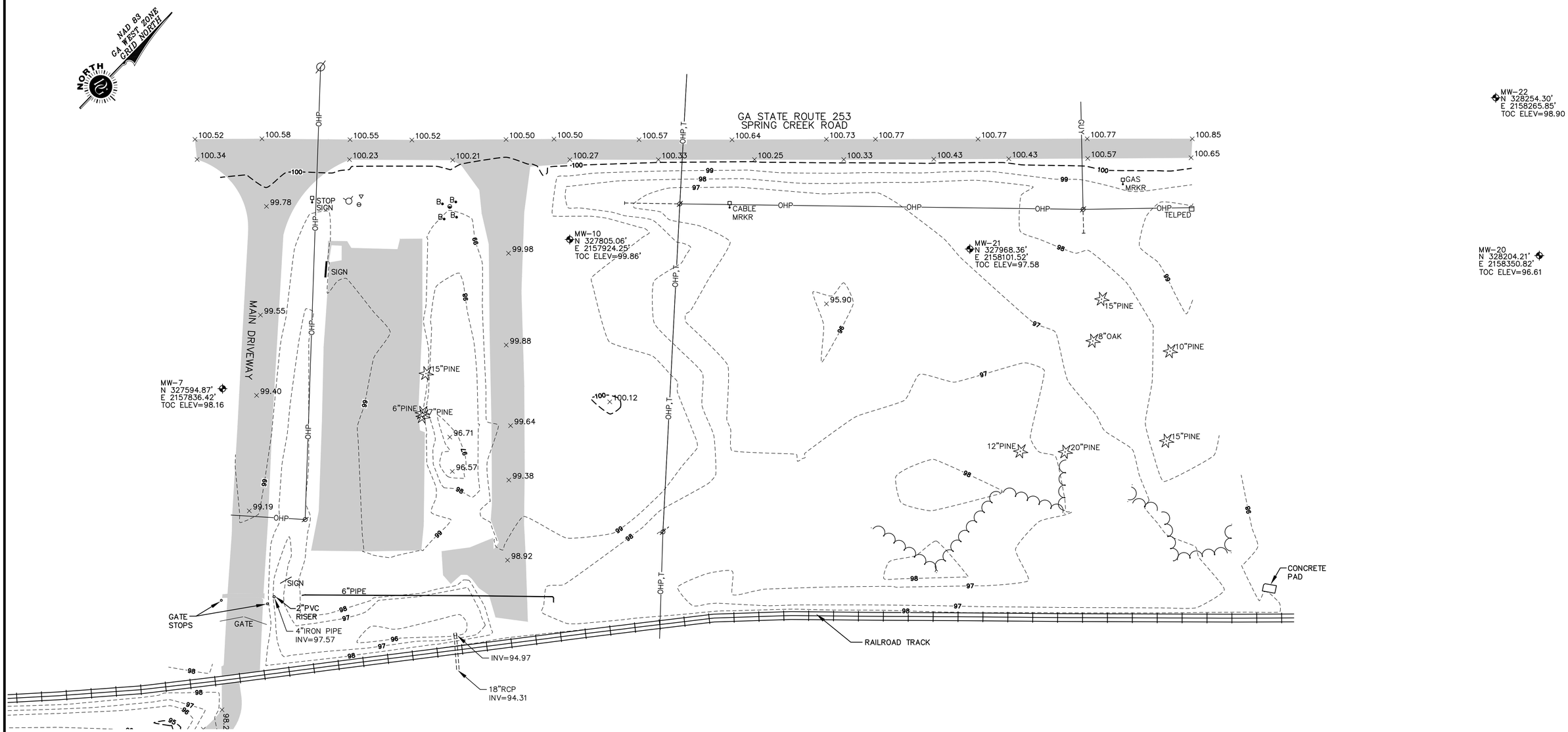
Checklist reviewed by: Eben Buchanan Date: 09/08/2014

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

FOURTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT E

July 2014 Survey Report



NOTES

1. DONALDSON, GARRETT AND ASSOCIATES, INC. AND THE LAND SURVEYOR WHOSE SEAL IS AFFIXED HEREON DO NOT GUARANTEE THAT ALL EASEMENTS WHICH MAY AFFECT THIS PROPERTY ARE SHOWN.
2. THIS DRAWING HAS BEEN GENERATED ELECTRONICALLY. THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT UNLESS IT HAS BEEN PROPERLY SEALED AND ORIGINALLY SIGNED BY A REGISTERED LAND SURVEYOR OF DONALDSON, GARRETT AND ASSOCIATES, INC. AUTHORITY OF O.C.G.A. 43-15-22.
3. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. UNDERGROUND UTILITIES NOT OBSERVED OR LOCATED MAY EXIST BUT MAY NOT BE SHOWN, AND MAY BE FOUND UPON EXCAVATION. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. INFORMATION REGARDING MATERIAL AND SIZE OF UTILITIES IS BASED ON RECORDS ACQUIRED FROM THE UTILITY OWNERS. VERIFICATION OF THE UTILITIES SHOULD BE MADE PRIOR TO ANY CONSTRUCTION.
4. ELEVATIONS SHOWN ARE BASED ON MEAN SEA LEVEL DATUM, NAVD88, AND WERE DERIVED FROM GPS OBSERVATIONS USING A LEICA SYSTEM 1200 GPS RECEIVER.

LEGEND

CONTOUR LINE	100
OVERHEAD POWER LINE	OHP
OVERHEAD TELEPHONE LINE	OHT
TELEPHONE PEDESTAL	TELPED
POWER POLE W/GUY	
MONITORING WELL	MW-10
TOP OF CASING	TOC
BOLLARD	
SIGN	
FIRE HYDRANT	
WATER VALVE	
WATER METER	
GAS VALVE AND METER	
SPOT ELEVATION	98.92
TREE (SIZE AND TYPE NOTED)	
ASPHALT PAVEMENT	
TREE LINE	

30 0 30 60 90

GRAPHIC SCALE IN FEET

GEORGIA REGISTERED No. 3122 LAND SURVEYOR DAVID G. BENNETT

TOPOGRAPHIC SURVEY

FOR

ENVIRONMENTAL INTERNATIONAL CORPORATION

OF

GEORGIA PORT AUTHORITY

BAINBRIDGE TERMINAL

DECATUR COUNTY BAINBRIDGE GEORGIA

10/20/09 – ADDED TOPO AREA	R.L.S. NO. 3122	DSGN: N/A
06/28/13 – ADDED MW'S	DATE: 9/30/09	DRWN: MH
07/11/14 – REVISED MW-10 LOCATION	CHKD: DB	FIELD FILE: B186;B346
	SCALE: 1"=30'	DRAWING NO. 2931-09-D
	PROJ. NO.: 2070-001-D1	SHEET 1 OF 2
	FIELD BOOK: EDC	

DONALDSON, GARRETT, & ASSOCIATES, INC.
MACON • CHARLOTTE
4875 RIVERSIDE DRIVE P.O. BOX 7306
MACON, GA 31210
(478)474-5350 Fax (478) 477-2534
http://www.dg-a.com

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B346.DWG/30 PLOT DATE: 06/17/2013 BY: david



MW-15
N 327281.17'
E 2158725.83'
TOC ELEV=98.13'

LEGEND

CONTOUR LINE	100
OVERHEAD POWER LINE	OHP
UNDERGROUND POWER	UGP
PROPOSED FENCE	x x
POWER POLE W/GUY	
MONITORING WELL	MW-5D
SOIL BORING	RSW ISLAND S
SPOT ELEVATION	98.92
TREE LINE	
EDGE OF CONCRETE	EC
CORNER	COR
ASPHALT PAVEMENT	

NOTES

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3. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. UNDERGROUND UTILITIES NOT OBSERVED OR LOCATED MAY EXIST BUT MAY NOT BE SHOWN, AND MAY BE FOUND UPON EXCAVATION. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. INFORMATION REGARDING MATERIAL AND SIZE OF UTILITIES IS BASED ON RECORDS ACQUIRED FROM THE UTILITY OWNERS. VERIFICATION OF THE UTILITIES SHOULD BE MADE PRIOR TO ANY CONSTRUCTION.
4. ELEVATIONS SHOWN ARE BASED ON MEAN SEA LEVEL DATUM, NAVD88, AND WERE DERIVED FROM GPS OBSERVATIONS USING A LEICA SYSTEM 1200 GPS RECEIVER.

MW-8
N 326676.14'
E 2158764.60'
TOC ELEV=93.39

MW-17
N 326333.22'
E 2158397.18'
TOC ELEV=93.64'

MW-12
N 326654.40'
E 2158983.43'
TOC ELEV=93.89

MW-23
N 326456.46'
E 2158717.38'
TOC ELEV=93.63'

RAMP

MW-13
N 326161.84'
E 2158242.15'
TOC ELEV=93.35

PIER

STILLING WELL
N 326428.59'
E 2158835.60'
TOC ELEV=91.68'

50 0 50 100 150
GRAPHIC SCALE IN FEET

GEORGIA REGISTERED No. 3122 LAND SURVEYOR DAVID G. BENNETT

TOPOGRAPHIC SURVEY

FOR

ENVIRONMENTAL INTERNATIONAL CORPORATION
OF
GEORGIA PORT AUTHORITY
BAINBRIDGE TERMINAL

DECATUR COUNTY BAINBRIDGE GEORGIA

7-11-14 REVISED MW-17 & MW-15 LOCATIONS	R.L.S. NO. 3122	DSGN: N/A
& ADDED MW-23 AND STILLING WELL	DATE: 10/21/09	DRWN: MH;DB
	CHKD: DB	FIELD FILE: B186;B346
	SCALE: 1"=30'	DRAWING NO. 2934-09-D
	PROJ. NO.: 1684-031-D1	SHEET 2 OF 2
	FIELD BOOK: EDC	

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ENVIRONMENTAL INTERNATIONAL CORP
GA PORT AUTHORITY-BAINBRIDGE TERMINAL
MONITORING WELL SURVEY DATA
PREPARED BY DONALDSON, GARRETT, & ASSOC, INC.
July 11, 2014
FIELD WORK PERFORMED: July 8, 2014

ID	NORTHING	EASTING	ELEVATION	
			GROUND	TOC
MW-10	327805.06	2157924.25	99.87	99.86
MW-15	327281.17	2158725.83	98.20	98.13
MW-17	326333.22	2158397.18	93.96	93.64
MW-23	326456.46	2158717.38	93.72	93.63
SW	326428.59	2158835.60	N/A	91.68

NOTE: COORDINATES SHOWN ARE GA STATE PLANE GRID, WEST ZONE, NAD83. ELEVATIONS ARE NAVD 88 DATUM.

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

FOURTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT F

July 2014 IDW Waste Characterization Analytical Results

Analytical Report 488999

for

Environmental International Corporation

Project Manager: Alan Sanders

Bainbridge, GA Site

400007-4.5

18-JUL-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 (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

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)

18-JUL-14

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

Reference: XENCO Report No(s): **488999**
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) 488999. 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. 488999 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 488999

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Drum #2,3,5,11,12,13 COMPOSITE	S	07-07-14 15:55		488999-001
Equipment Rinsate	W	07-08-14 10:22		488999-007
MW-23	W	07-08-14 09:02		488999-008
Drum #3	S	07-07-14 16:09		Not Analyzed
Drum #5	S	07-07-14 16:28		Not Analyzed
Drum #11	S	07-07-14 18:21		Not Analyzed
Drum #12	S	07-07-14 17:57		Not Analyzed
Drum #13	S	07-07-14 18:08		Not Analyzed

Sample receipt non conformances and comments:

All samples for Pesticides by SW-846 8081B were subject to Sulfur Cleanup by METHOD 3660B.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-945650 Organochlorine Pesticides by SW-846 8081B
Aldrin, Alpha-BHC, Gamma-BHC (Lindane) , Heptachlor RPD was outside laboratory control limits.
Samples affected are: 488999-008

Batch: LBA-945933 TCLP Pesticides by SW-846 1311/8081B
Gamma-BHC (Lindane), Heptachlor RPD was outside laboratory control limits.
Samples affected are: 488999-007, -001

Hits Summary 488999

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id : **MW-23**
Lab Sample Id : 488999-008

Matrix : Water
Date Collected : 07.08.14 09.02
Date Received : 07.09.14 13.35

% Moisture :

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 945650

Prep Method: SW3510C
Date Prep: 07.11.14 13.07

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.0262	ug/L	07.11.14 17.20	JF	1
Beta-BHC	319-85-7	5.68	ug/L	07.14.14 12.16	D	20
Delta-BHC	319-86-8	0.0381	ug/L	07.11.14 17.20	J	1
Gamma-BHC (Lindane)	58-89-9	0.0968	ug/L	07.11.14 17.20	F	1

Certificate of Analytical Results 488999

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **Drum #2,3,5,11,12,13 COMPOSITE** Matrix: Soil Date Received:07.09.14 13.35

Lab Sample Id: 488999-001 Date Collected: 07.07.14 15.55

Analytical Method: TCLP Pesticides by SW-846 1311/8081B Prep Method: SW3510C

Tech: TUE % Moisture:

Analyst: VIC Date Prep: 07.17.14 10.00

Seq Number: 945933

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gamma-BHC (Lindane)	58-89-9	U	0.500	0.0160	ug/L	07.17.14 16.32	UF	1
Heptachlor	76-44-8	U	0.500	0.0290	ug/L	07.17.14 16.32	UF	1
Heptachlor Epoxide	1024-57-3	U	0.500	0.0280	ug/L	07.17.14 16.32	U	1
Endrin	72-20-8	U	1.00	0.0460	ug/L	07.17.14 16.32	U	1
Methoxychlor	72-43-5	U	5.00	0.288	ug/L	07.17.14 16.32	U	1
Chlordane	12789-03-6	U	5.00	0.963	ug/L	07.17.14 16.32	U	1
Toxaphene	8001-35-2	U	20.0	4.23	ug/L	07.17.14 16.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	55	%	27-135	07.17.14 16.32	
Decachlorobiphenyl	2051-24-3	75	%	26-154	07.17.14 16.32	

Certificate of Analytical Results 488999

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **Equipment Rinsate** Matrix: Water Date Received:07.09.14 13.35

Lab Sample Id: 488999-007 Date Collected: 07.08.14 10.22

Analytical Method: TCLP Pesticides by SW-846 1311/8081B Prep Method: SW3510C

Tech: TUE % Moisture:

Analyst: VIC Date Prep: 07.17.14 10.00

Seq Number: 945933

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gamma-BHC (Lindane)	58-89-9	U	0.500	0.0160	ug/L	07.17.14 16.52	UF	1
Heptachlor	76-44-8	U	0.500	0.0290	ug/L	07.17.14 16.52	UF	1
Heptachlor Epoxide	1024-57-3	U	0.500	0.0280	ug/L	07.17.14 16.52	U	1
Endrin	72-20-8	U	1.00	0.0460	ug/L	07.17.14 16.52	U	1
Methoxychlor	72-43-5	U	5.00	0.288	ug/L	07.17.14 16.52	U	1
Chlordane	12789-03-6	U	5.00	0.963	ug/L	07.17.14 16.52	U	1
Toxaphene	8001-35-2	U	20.0	4.23	ug/L	07.17.14 16.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	37	%	27-135	07.17.14 16.52	
Decachlorobiphenyl	2051-24-3	57	%	26-154	07.17.14 16.52	

Certificate of Analytical Results 488999

Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

Sample Id: **MW-23** Matrix: Water Date Received:07.09.14 13.35

Lab Sample Id: 488999-008 Date Collected: 07.08.14 09.02

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

Tech: BRO % Moisture:

Analyst: VIC Date Prep: 07.11.14 13.07

Seq Number: 945650

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	07.11.14 17.20	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	07.11.14 17.20	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	07.11.14 17.20	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	07.11.14 17.20	UF	1
Alpha-BHC	319-84-6	**0.0262**	0.0500	0.0101	ug/L	07.11.14 17.20	JF	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	07.11.14 17.20	U	1
Beta-BHC	319-85-7	**5.68**	1.00	0.0460	ug/L	07.14.14 12.16	D	20
Delta-BHC	319-86-8	**0.0381**	0.0500	0.00200	ug/L	07.11.14 17.20	J	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	07.11.14 17.20	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	07.11.14 17.20	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	07.11.14 17.20	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	07.11.14 17.20	U	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	07.11.14 17.20	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	07.11.14 17.20	U	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	07.11.14 17.20	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0968**	0.0500	0.00160	ug/L	07.11.14 17.20	F	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	07.11.14 17.20	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	07.11.14 17.20	UF	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	07.11.14 17.20	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	07.11.14 17.20	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	07.11.14 17.20	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	07.11.14 17.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	95	%	27-135	07.11.14 17.20	
Decachlorobiphenyl	2051-24-3	103	%	26-154	07.11.14 17.20	

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: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C
Seq Number: 945650 Matrix: Water Date Prep: 07.11.14
MB Sample Id: 658209-1-BLK LCS Sample Id: 658209-1-BKS LCSD Sample Id: 658209-1-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	<0.00370	0.500	0.481	96	0.481	96	20-152	0	30	ug/L	07.11.14 16:40	
4,4-DDE	<0.00350	0.500	0.460	92	0.435	87	18-147	6	30	ug/L	07.11.14 16:40	
4,4-DDT	<0.00490	0.500	0.463	93	0.455	91	18-164	2	30	ug/L	07.11.14 16:40	
Aldrin	<0.00260	0.500	0.461	92	0.303	61	11-131	41	30	ug/L	07.11.14 16:40	F
Alpha-BHC	<0.0101	0.500	0.460	92	0.265	53	24-141	54	30	ug/L	07.11.14 16:40	F
Alpha-Chlordane	<0.00220	0.500	0.465	93	0.424	85	37-135	9	30	ug/L	07.11.14 16:40	
Beta-BHC	<0.00230	0.500	0.469	94	0.408	82	12-162	14	30	ug/L	07.11.14 16:40	
Delta-BHC	<0.00200	0.500	0.514	103	0.465	93	19-147	10	30	ug/L	07.11.14 16:40	
Dieldrin	<0.00430	0.500	0.464	93	0.432	86	35-140	7	30	ug/L	07.11.14 16:40	
Endosulfan I	<0.00240	0.500	0.442	88	0.395	79	20-135	11	30	ug/L	07.11.14 16:40	
Endosulfan II	<0.00450	0.500	0.467	93	0.457	91	34-122	2	30	ug/L	07.11.14 16:40	
Endosulfan Sulfate	<0.00700	0.500	0.499	100	0.498	100	41-145	0	30	ug/L	07.11.14 16:40	
Endrin	<0.00460	0.500	0.477	95	0.446	89	36-158	7	30	ug/L	07.11.14 16:40	
Endrin Aldehyde	<0.00860	0.500	0.487	97	0.471	94	28-135	3	30	ug/L	07.11.14 16:40	
Endrin Ketone	<0.00450	0.500	0.521	104	0.514	103	42-134	1	30	ug/L	07.11.14 16:40	
Gamma-BHC (Lindane)	<0.00160	0.500	0.458	92	0.302	60	23-143	41	30	ug/L	07.11.14 16:40	F
Gamma-Chlordane	<0.00180	0.500	0.469	94	0.421	84	25-112	11	30	ug/L	07.11.14 16:40	
Heptachlor	<0.00290	0.500	0.458	92	0.295	59	20-142	43	30	ug/L	07.11.14 16:40	F
Heptachlor Epoxide	<0.00280	0.500	0.459	92	0.396	79	32-134	15	30	ug/L	07.11.14 16:40	
Methoxychlor	<0.0288	0.500	0.491	98	0.467	93	36-169	5	30	ug/L	07.11.14 16:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	78		83		49		27-135	%	07.11.14 16:40
Decachlorobiphenyl	98		102		102		26-154	%	07.11.14 16:40

Analytical Method: **TCLP Pesticides by SW-846 1311/8081B** Prep Method: SW3510C
Seq Number: 945933 Matrix: Water Date Prep: 07.17.14
MB Sample Id: 658508-1-BLK LCS Sample Id: 658508-1-BKS LCSD Sample Id: 658508-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gamma-BHC (Lindane)	<0.0160	5.00	3.19	64	2.30	46	23-143	32	30	ug/L	07.17.14 15:52	F
Heptachlor	<0.0290	5.00	3.07	61	2.19	44	20-142	33	30	ug/L	07.17.14 15:52	F
Heptachlor Epoxide	<0.0280	5.00	3.41	68	2.65	53	32-134	25	30	ug/L	07.17.14 15:52	
Endrin	<0.0460	5.00	3.53	71	2.77	55	36-158	24	30	ug/L	07.17.14 15:52	
Methoxychlor	<0.288	5.00	3.80	76	3.05	61	36-169	22	30	ug/L	07.17.14 15:52	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	75		50		40		27-135	%	07.17.14 15:52
Decachlorobiphenyl	82		77		64		26-154	%	07.17.14 15:52

QC Summary 488999

Environmental International Corporation

Bainbridge, GA Site

Analytical Method: **TCLP Pesticides by SW-846 1311/8081B** Prep Method: SW3510C

Seq Number: 945933 Matrix: Water Date Prep: 07.17.14

Parent Sample Id: 488999-007 MS Sample Id: 488999-007 S MSD Sample Id: 488999-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gamma-BHC (Lindane)	<0.0160	5.00	3.22	64	3.23	65	23-143	0	30	ug/L	07.17.14 17:13	
Heptachlor	<0.0290	5.00	3.17	63	3.16	63	20-142	0	30	ug/L	07.17.14 17:13	
Heptachlor Epoxide	<0.0280	5.00	3.46	69	3.46	69	32-134	0	30	ug/L	07.17.14 17:13	
Endrin	<0.0460	5.00	3.62	72	3.63	73	36-158	0	30	ug/L	07.17.14 17:13	
Methoxychlor	<0.288	5.00	3.85	77	3.85	77	36-169	0	30	ug/L	07.17.14 17:13	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	50		50		27-135	%	07.17.14 17:13
Decachlorobiphenyl	77		76		26-154	%	07.17.14 17:13

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
☐ Philadelphia/New Jersey 610-955-5649
☐ South Carolina 803-543-8099 ☐ Other

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 265780 Page 1 of 1

Company-City EIC - Alpharetta	**Phone** 770-772-7100
Proj Name-Location GPA - Bainbridge ☒ Previously done at XENCO	**Project ID** 400007-4.5
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)	

Lab Only: WO# 488099

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.

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	Stanby for analysis (TBD)	8081 B/3660B	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	Drum # 2	7/7/14	15:55		S		X	1	4	C	NA										X					
2	Drum # 3	7/7/14	16:09		S		See	1	4	C	NA										X					
3	Drum # 5	7/7/14	16:28		S		Notes	1	4	C	NA										X					
4	Drum # 11	7/7/14	18:21		S		Below	1	4	C	NA										X					
5	Drum # 12	7/7/14	17:57		S			1	4	C	NA										X					
6	Drum # 13	7/7/14	18:08		S			1	4	C	NA										X					
7	Equipment Rinsate	7/8/14	10:22		W			1	1	A	NA										X					
8	MW-23	7/8/14	9:02		W			1	1	A	NA										X	X				
9																										
10																										

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) WG Will Grant	7/9/14 13:35	2)	07/09/14 13:30
3)		4)	
5)		6)	

Total Containers per COC: Cooler Temp: 15.3°C Rec'd on ICE, Melted Cooled upon receipt

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**)

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.

all 4oz soil samples should be composited, prior to analysis. MW-23 is a grab sample for Groundwater.

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Florida Testing Services, LLC

Client: Environmental International Corporation

Date/ Time Received: 07/09/2014 01:35:00 PM

Work Order #: 488999

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

Temperature Measuring device used :

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	15.3	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	Received with melting ICE. Samples received at 15.3 deg C. Upon receipt of samples and processing, additional cooling procedure was initiated in lab to bring samples "<6 degs C". Samples are local transport.
#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**	
#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)?	**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: J. Derek Rounsley Date: 07/10/2014

Checklist reviewed by: Mike Kimmel Date: 07/10/2014

HSI SITE 10071, GEORGIA PORTS AUTHORITY- BAINBRIDGE TERMINAL

FOURTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT G

Monthly Summary of Hours Invoiced

Environmental International Corporation

GPA VIRP

April 1, 2014 through September 30 2014

TASKS	Apr 14	May 14	Jun 14	July 14	Aug 14	Sep 14	TOTAL
Task 4.1 Prelim planning & preparation	0	0	0	0	0	0	0
Task 4.2 Supplemental VIRP tasks	201	139	109	2	56	11	518
Task 4.3 RSW area soil remediation	1	0	0	0	0	0	1
Task 4.4 Drainage swale remediation	0	0	0	0	22	0	22
Task 4.5 Groundwater remediation	232	137	242	202	183	540	1,536
Task 4.6 Meetings and site visits	19	39	28	15	8	20	129
Task 4.7 Health and Safety	0	73	35	0	0	0	108
Total Hours	**452**	**388**	**414**	**218**	**269**	**571**	**2,313**

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

COMPLIANCE STATUS REPORT

EXHIBIT F
FIFTH VIRP SEMI-ANNUAL PROGRESS REPORT

(INCLUDED ON CD)

ENVIRONMENTAL INTERNATIONAL CORPORATION
161 Kimball Bridge Road, Suite 100, Alpharetta, GA 30009
Phone: 770-772-7100, Fax: 770-772-0555
Email: rajmahadevaiah@eicusa.com
Website:www.eicusa.com

Our Contribution to the Environment®

May 4, 2015

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: **Fifth 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 Fifth 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 Fifth 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 Mr. Christopher Novack of GPA at 912-964-3922 or me at the above location.

Sincerely,

ENVIRONMENTAL INTERNATIONAL CORPORATION

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

Cc: Christopher Novack, GPA

CERTIFICATION AND SUPPORTING DOCUMENTS
Fifth VIRP Semi-annual Progress Report
Georgia Ports Authority-Bainbridge Terminal
HSI Site No. 10071
May 4, 2015

"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

5/4/15
Date



Signature and Stamp

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

FIFTH VIRP SEMI-ANNUAL PROGRESS REPORT

May 4, 2015

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

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http://www.eicusa.com

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LIST OF ATTACHMENTS

A1. December 2014 Survey Report
A2. April 2015 Survey Report
B. AOC-2 Soil and December 2014 IDW Characterization Analytical Results
C1. Waste Acceptance and Agreement Form
C2. IDW Soil Manifest
C3. IDW Soil Landfill Weight Ticket
D1. IDW Water Manifest
D2. IDW Water Certificate of Treatment
E1. IDW Drums Manifest
E2. IDW Drums Certificate of Destruction
F. March 2015 Well Purging and Sampling Field Logs
G. March 2015 Groundwater Analytical Results
H. Monthly Summary of Hours Invoiced

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A. Site Conceptual Model Report

SECTION

1

1. INTRODUCTION

On behalf of the Georgia Ports Authority (GPA), Environmental International Corporation (EIC) is pleased to submit the Fifth Semi-annual Progress Report to the Georgia Environmental Protection Division (EPD). This 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 objectives of this report is to present a compilation of tasks conducted by EIC during the sixth-month time frame covering the period from November 2014 to April 2015. This report documents the following tasks which were completed to create a better understanding of site conditions and constituents of concern (COC) trends, dispose of investigative derived waste (IDW), and to address concerns from the EPD:

- Addressing comments from EPD
- Monitoring well installation and survey
- AOC-2 soil delineation sampling
- Investigative derived waste (IDW) characterization and disposal
- Continued evaluation of COC trends in groundwater
- Site conceptual model update

SECTION

2

2. EPD COMMENT LETTER

GPA received a letter from the EPD, dated July 2, 2014 (EPD, 2014), commenting on its review of the First, Second and Third VIRP Semi-Annual Progress Reports EIC prepared, dated May 9, 2013, October 30, 2013, and April 30, 2014, (EIC, 2013a, 2013b, 2014a), and of a groundwater monitoring report by a previous consultant (CH2M, 2013) dated February 20, 2013. This letter was the last official response that GPA received from EPD. EIC addressed each of these comments in the Fourth Semi-annual Progress Report, submitted in October 2014. The following are follow-up responses based on subsequent site activities and analyses.

EPD Comment 2

EPD concurs that the soil contamination immediately north of AOC 2 is delineated. However, the extent of soil exceedances has not been determined to the south and should be addressed in future reports. EPD recommends that AOC 2 be expanded to the east to include the adjacent railroad tracks and to the south and west to abut the AOC 1 fence line.

Previous October 2014 Response:

"In AOC-2, EIC will collect additional samples within the railroad tracks located to the east of Warehouse No. 3. As discussed in Section 4.2.3 of the VIRP, however, the site remedy for the paved area beneath AOC-2 entails institutional controls and site covenants. As such, additional samples in paved areas to the south and west do not add value."

Follow-up Response:

EIC collected additional samples in AOC-2 as discussed in Section 4 of this report. Samples were collected at locations depicted in Figure 4-1. From Figure 4-1, it is apparent that delineation to the east of AOC-2 is complete.

EPD Comment 5

Figure 4-5 and Table 4-3 indicate MW-13 was dry and was not sampled in the December 2013 sampling event. This well has historically exceeded risk reduction standards for beta-BHC whenever sampling was possible. Therefore, delineation west of MW-13 is not complete as noted in Comment 5 of our November 2, 2012 letter.

Note that horizontal delineation on GPA property was to be completed by November 2, 2013 in accordance with the VIRP checklist. Please include historical data for MW-13 in future Groundwater Data Summary tables.

Previous October 2014 Response:

"EIC has proposed the installation of one or two wells southwest of MW-13 for completing horizontal delineation. As documented in Section 4.2.2.2 of [the Fourth Semi-annual] report, EIC has taken corrective action to prevent dry conditions in MW-13. This will provide more consistent groundwater monitoring data in the future. Table 3-4 includes additional historical groundwater analytical results data for MW-13 ranging from March 2013 to April 2002."

Follow-up Response:

EIC installed MW-24 as described in Section 3 of this report. Groundwater from MW-24 was first sampled in March of 2015 and all COCs in this sample were below the risk reduction standard (RRS), as listed in Table 6-3. From this result, it is apparent that COCs in groundwater have been delineated west of MW-13.

EPD Comment 6

GPA has presented evidence that a source of groundwater contamination exists upgradient of the GPA property and proposes to provide more detail in an updated conceptual site model in the next semi-annual report. While EPD does concur with this analysis, we do not concur with the implications in the reports that all pesticide and sulfate groundwater detections are from upgradient sources. We suspect multiple sources both on and off the GPA property.

Previous October 2014 Response:

"The EPD's concurrence with upgradient contamination analysis is noted and will be referenced in future reports. An updated site conceptual model is in progress and will be included in future semi-annual reports. EIC will continue to investigate and evaluate contaminant sources and conditions/mechanisms that contribute to the observed contaminant levels."

Follow-up Response:

Appendix A includes an updated site conceptual model (SCM) report. The SCM considers historical data and all analysis conducted since the approval of the VIRP and represents EIC's understanding of the site conditions and potential source(s) of contamination.

SECTION

3

3. WELL INSTALLATION AND SURVEY

To delineate the BHC plume west of MW-13, EIC installed monitoring well MW-24 in December 2014. During the installation, EIC recorded lithological and well construction details. Following the installation of MW-24, EIC utilized Donaldson Garrett and Associates, Inc. (DGA), a Georgia licensed land surveyor, to accurately measure and record the location and elevation of the top-of-casing (TOC) of MW-24, and other wells in the area. The following sub-sections describe these site activities in further detail.

3.1 MW-24 INSTALLATION

EIC installed MW-24 approximately two-hundred feet west of MW-13 with a depth and screened interval similar to that of well MW-13. The well was installed by a Georgia licensed drilling contractor, under EIC's supervision. Utilizing a Geo-probe, equipped with an 8.25-inch outer diameter hollow-stem auger bit and augers, EIC completed the borehole for MW-24 to a total depth of 24 feet. During the drilling process, EIC characterized and logged soil from 5-foot long soil cores. A lithological/well construction log of MW-24 is illustrated in Figure 3-1.

Following the completion of the borehole for MW-24, a 10-foot section of 0.010-slotted PVC screen assembled to a 15-foot section of blank 2-inch diameter well casing was placed inside the hollow stem augers in the borehole and the augers were slowly removed, centering the well screen. Due to the flowing sand condition, four feet of native sand infilled the annulus space around the well screen as the augers were removed from the borehole. As this sand was observed to have similar properties to the filter pack sand, it is not believed to have had a negative impact on the well. The annular space around the PVC screen and casing was then filled with 20/30 filter pack sand up to approximately two feet above the screened interval. A two-foot thick bentonite seal was then installed above the filter pack. A 5% bentonite cement mixture (grout) was placed into the annulus space from the bentonite seal to within approximately 12 inches below ground surface. After placement, the well casing was cut level to ground surface and a locking pressure seal well cap was installed on the casing. The bentonite and grout was then allowed to settle and set for several hours.

After the grout was allowed to settle in the annulus space, pea gravel was placed above the grout to within approximately 6-inches below the ground surface to prevent surface water accumulation in the well vault. Next an 8-inch diameter cast-iron well vault with bolted lid and a 2-foot wide, 2-

foot, long and 6-inch thick concrete collar were installed around the well casing and cap. Upon completing the construction of MW-24, EIC placed a weather-resistant key lock on the well cap.

Following the completion of MW-24, EIC developed MW-24 for approximately two hours by bailing groundwater utilizing a disposable bailer. Although the bailing removed a volume of one 55-gallon drum of purged groundwater, the groundwater remained slightly turbid.

During a later site visit, in January of 2015, EIC further developed MW-24 utilizing a submersible pump. Approximately 55-gallons were purged over an hour of pumping and surging. The development water ran clear while the pump was raised and lowered within the full interval the water column except for slight turbidity when the pump was within the interval from two to four feet above the bottom of the well. During the first groundwater sampling event at this well in March 2015 (Refer to Section 6) the groundwater pumped with a peristaltic pump yielded relative clear water. Additionally, during this sampling event, the water level in the well remained unchanged during pumping, indicating an unhindered hydraulic connection to the groundwater.

3.2 DECEMBER 2014 WELL SURVEY

Following the installation of MW-24, EIC retained DGA to survey the TOC and ground surface elevation of MW-24. In addition, the TOC and ground surface elevations of additional monitoring wells, were surveyed to reconfirm the elevations. These wells were namely MW-2, MW-5A, MW-5D, MW-8, MW-12, and MW-13. DGA conducted the survey in December 2014 utilizing conventional survey techniques. The TOC and ground surface elevations were measured to within 1/100th of a foot. The December 2014 DGA survey report, Attachment A1, documents this survey. Note that the reported TOC elevation for MW-2 was 0.89 ft. lower than the historically reported elevation.

3.3 APRIL 2015 WELL SURVEY

EIC recognized that several wells were surveyed in increments using previously designated land marks. Based on an evaluation of the incremental surveying data, EIC requested DGA to resurvey all wells referenced to one reference benchmark. Subsequently, DGA returned to the site in April 2015 to perform the resurveying all wells. At that time, DGA used conventional survey techniques and measured the TOC elevations of each monitoring well and the stilling well from a single reference point. The survey report is included as Attachment A1. From this report, minor differences in the TOC elevation of each well can be observed. EIC has updated both historical and current groundwater elevation data to reflect these changes.

SECTION

4

4. AOC-2 SOIL SAMPLING

In response to comment number two of the July 2, 2014 EPD comment letter (Refer to Section 2), EIC conducted soil sampling along the eastern edge of AOC-2 to complete the delineation of COCs in the soil beneath the unpaved areas. The following sub-sections describe the procedures and results of the AOC-2 soil delineation sampling.

4.1 AOC-2 BACKGROUND

As stated in the VIRP application, AOC-2 is primarily covered by an impermeable barrier. This barrier consists of the concrete slab foundation of Warehouse 3 and the surrounding asphalt pavement. This barrier eliminates potential direct human exposure to the underlying soil. In addition, GPA has established site covenants at the facility -as specified in the VIRP application - to eliminate exposure to construction or to underground utility workers who may potentially expose soils in the area.

In response to EPD's comment (noted in Section 2), EIC conducted soil sampling within AOC-2 along its northern boundary in June 2013- as discussed in the Second Semi-annual Progress report. The sampling results confirmed that COCs were delineated below the established RRS along the northern unpaved area of AOC-2.

The EPD concurred with the results of the delineation of the northern boundary of AOC-2 in its July 2, 2014 comments letter. EPD, however, required that the eastern boundary of AOC-2 be expanded to include the adjacent railroad tracks. Consequently, EIC conducted a second AOC-2 sampling event along the eastern boundary of AOC-2 and east of the adjacent railroad tracks in December 2014. Section 4.2 includes a discussion of the soil sampling activities, soil boring survey, and analytical data evaluation regarding the delineation of the eastern boundary of AOC-2.

4.2 DECEMBER 2014 AOC-2 SOIL SAMPLING

4.2.1 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-R3 under the FBQSTP (EPA, 2014).

Prior to the beginning of each soil boring, each location was cleared of any surface debris such as tree limbs, leaves, or other forms of detritus. After all vegetation cover had been cleared, EIC utilized a decontaminated stainless steel hand auger to advance a 1.5 inch diameter sand auger to collect discrete samples from the zero to two foot and from the three to five foot intervals below ground surface. After each discrete soil sample was collected, the sand auger was decontaminated by washing with a phosphate free detergent, rinsing with deionized water, and allowing it to dry before reuse in accordance with EPD's Field Equipment and Decontamination guidelines SESDPROC-205 (EPA, 2011).

After each soil sample was retrieved, it was deposited into a decontaminated stainless steel bowl for homogenization. The homogenization was completed in accordance with EPD's guidance document SESDPROC-300-R3. The soil samples were thoroughly mixed to ensure that each sample was representative of each respective zone. Each homogenized sample was then placed into a laboratory supplied four-ounce glass jar and the jar cap securely tightened. Threads on the containers and lids were cleaned to ensure a tight seal when closed. The exterior of each sample jar was then cleaned and labeled and placed into a laboratory supplied insulated thermal cooler with ice for storage. Following all soil boring activities, unused soil was placed back into each respective borehole from which it originated.

4.2.2 Samples Submittal and Analysis

Prior to submitting the soil samples to the laboratory, EIC completed chain of custody (COC) forms and these forms accompanied all samples. EIC submitted all soil samples and COC forms to Xenco Laboratories, a Georgia Department of Natural Resources-certified laboratory located in Norcross, Georgia (Xenco), 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.

4.2.3 Soil Boring Survey

As previously discussed in Section 3.2, EIC utilized DGA to conduct the survey concurrently with other monitoring well survey tasks conducted in December 2014, Based on survey data, the locations of the soil borings along the eastern boundary of AOC-2 are illustrated in Figure 4-1 with yellow highlights and labels. Figure 4-1 also illustrates other historical soil samples collected in AOC-2 for delineation purposes.

4.2.4 Data Evaluation

From Figure 4-1, it is apparent that the concentrations of the COCs in soil collected from both the zero to two foot and three to five foot intervals of each of the four soil borings along the eastern boundary of AOC-2 are below RRS limits. Additionally, all samples on the eastern boundary are below the delineation standard with several samples also below the method detection limit (MDL). Considering that the COCs in AOC-2 have been delineated towards the east, EIC has determined that the eastern boundary of AOC-2 should remain unaltered as originally defined in the VIRP.

Additionally, as both the northern and eastern unpaved boundaries of AOC-2 have been delineated, it is clear that the site engineering and institutional controls fully address the contaminated soil management objectives described in the VIRP application.

SECTION

5

5. IDW CHARACTERIZATION & DISPOSAL

As discussed in Section 7 of the Fourth Semi-annual progress report (EIC, 2014b), Investigation Derived Waste (IDW) was generated through the installation of monitoring well MW-23, repairs to existing monitoring wells, and from routine groundwater sampling. Therefore, EIC characterized the IDW generated during the activities chronicled in the fourth semiannual report for proper disposal in July 2014. Following the submission of the Fourth Semi-annual Progress Report, however, a new monitoring well, MW-24, was installed. Therefore, the solid and liquid waste from this well installation event were later characterized in December 2014. The following subsections describe the December 2014 IDW characterization sampling event and subsequent disposal of all aforementioned IDW in January 2015.

5.1 DECEMBER 2014 IDW CHARACTERIZATION

During the installation of MW-24, both solid and liquid IDW was generated. This solid and liquid IDW was containerized into two drums each and staged with the existing drummed IDW adjacent to the western wall of the T-Shed onsite. The solid IDW consisted of soil cuttings from the borehole of MW-24 and the liquid IDW consisted of purge water from the development of MW-24. EIC collected soil and water samples from each of the aforementioned drums and submitted the samples to a certified laboratory for the analysis of COC concentrations.

Representative samples were collected from each solid IDW drum utilizing a decontaminated sand probe with disposable acetate sleeves. Each sample was placed into a stainless steel bowl and homogenized before being containerized into a laboratory-supplied four-ounce glass jar. A representative sample from the liquid IDW drums was obtained utilizing a new disposable bailer inserted through the drum bung. This sample was transferred to a laboratory-supplied 1-liter amber glass bottle.

Each sample was labeled and stored with double-bagged ice in an insulated cooler container provided by the laboratory. A completed chain of custody form accompanied all samples. EIC submitted all samples to Xenco Laboratories for analysis. The laboratory analyzed the soil samples for organochlorine pesticides contaminants using EPA Method 1311/8081B/3660B which included the Toxicity Characteristic Leaching Procedure (TCLP) and sulfur cleanup. The laboratory analyzed the liquid IDW sample for organochlorine pesticides contaminants using EPA Method 8081B/3660B. The laboratory report is included as Attachment B.

Table 5-1 and Table 5-2 summarize the maximum contaminant concentrations observed at the site for regulated contaminants of concern in solid and liquid IDW, respectively. From these tables, it is apparent that all IDW containerized at the site can be considered non-hazardous and disposed of as such.

5.2 WASTE DISPOSAL

Following the characterization of the aforementioned IDW in July and December 2014, EIC arranged for the disposal of the IDW in January 2015.

5.2.1 Solid Waste Disposal

Prior to the disposal of solid IDW, EIC completed a Waste Acceptance Application and Agreement (WAAA, Attachment C1) form for the local Decatur County Solid Waste Disposal Facility (landfill). Following the approval of the WAAA, EIC contracted Aqua-Terra Recycling and Treatment, Inc. (ATR) to transfer the solid IDW from the solid waste containing drums to a roll-off container and transport this container to the Decatur County landfill. Prior to the transportation of the solid IDW from the GPA Bainbridge Terminal to the Decatur County landfill, EIC issued a non-hazardous waste manifest to the driver of the truck hauling the roll-off container. EIC traveled in convoy with the truck driver from the site to the landfill to document the solid IDW disposal. The waste manifest was then fully endorsed by a county landfill operator after the solid waste reached the landfill. The non-hazardous solid IDW manifest is included as Attachment C2. The roll-off container was weighed upon arrival at the landfill and again after depositing the solid IDW in the landfill by the county landfill operator. The weight ticket with the total amount of deposited solid waste is included as Attachment C3. From Attachment C3, 2.04 tons of solid waste were delivered and deposited in the Decatur County landfill.

5.2.2 Liquid Waste Disposal

EIC had ATR pump the liquid IDW from the liquid containing drums into an ATR bulk tank vacuum truck and transport the IDW to the ATR treatment facility in Oxford, Georgia. Prior to the transportation of the liquid IDW from the GPA Bainbridge Terminal to the treatment facility, EIC issued a non-hazardous waste manifest to the driver of the vacuum truck. EIC traveled in convoy with the vacuum truck driver from the site to the treatment facility to document the liquid IDW disposal. The manifest was fully endorsed by ATR after the liquid reached the treatment facility. Additionally, following the treatment of the liquid IDW, Aqua-Terra issued a certificate of treatment and disposal to EIC. The non-hazardous waste manifest and certificate of treatment and disposal are included as Attachments D1 and D2, respectively. In reference to the certificate of treatment and disposal, 483 gallons of liquid IDW were accepted and treated by this facility.

5.2.3 Empty Drum Disposal

After all solid and liquid IDW had been transferred from the steel drums, EIC inspected the empty drums. EIC had ATR transport any drums that were deemed to be unfit for continued use

to LB Recycling & Waste Services facility in Covington, Georgia. All remaining drums were labeled as "Empty" and staged by the north side of the T-Shed by GPA for future use in storing IDW. Prior to the transportation of the empty drums from the GPA Bainbridge Terminal to LB Recycling & Waste Services, EIC issued a non-hazardous waste manifest to the driver of an ATR box truck. EIC traveled in a convoy with the box truck driver from the site to the recycling facility to document the disposal of the drums. The manifest was fully endorsed by a representative of the recycling facility after the empty drums reached the recycling facility. Following the destruction of the empty drums, LB Recycling issued a Letter of Destruction to EIC. The Non-hazardous Waste Manifest and Certificate of Destruction, are included as Attachments E1 and E2, respectively. From Attachment E2, 520 pounds of scrap drums (10 empty drums) were accepted and destroyed by this facility.

SECTION

6

6. GROUNDWATER MONITORING

EIC conducted a semi-annual groundwater monitoring event during the first quarter of 2015. During this event, groundwater samples were collected from site monitoring wells and analyzed for pesticide constituents of concern (COCs). The COC analyses included the primary benzenehexachloride (BHC) composed of isomers, α-BHC, β-BHC, δ-BHC, and γ-BHC (Lindane). Under the approved VIRP (EIC, 2012), all available monitoring wells are being utilized for the monitored natural attenuation (MNA) remedial approach. The following subsections describe the monitoring program events and results.

6.1 GROUNDWATER MONITORING FIELD PROGRAM

During the March 2015 event, EIC conducted groundwater monitoring at all 25 available monitoring wells, including MW-24 which was installed in December 2014, as described in Section 3 of this report. Two of the monitoring wells (MW-14 and MW-17) are historically defined as "deep wells", as they are screened at or greater than 50 feet below ground surface (bgs). A site layout map including monitoring well locations is illustrated in Figure 6-1. In preparing this map, EIC plotted the monitoring well locations based on both historical well surveys and well surveys EIC conducted in June 2013, July 2014, and December 2014. Please note that this map has been updated so that all onsite buildings are labeled.

6.1.1 Sampling Protocol

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

6.1.2 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 conduct off-site well monitoring on the adjacent property to the northeast 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. Upon arrival at the site, EIC acquired access permission from Ergon, Inc., whose property, to the west of the site, must be utilized to access wells MW-2 and MW-11.

6.1.3 Field Procedures

6.1.3.1 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 from the March 2015 monitoring event is tabulated in Table 6-1.

6.1.3.2 Groundwater Sampling

Prior to initiating well monitoring field activities in March, EIC placed a non-hazardous label on an empty 55-gallon drum that was previously staged on the north side of the T-Shed by GPA. This drum was labeled with the shipper noted as "Georgia Ports Authority", contents noted as "IDW Well Purge Water", and accumulation date noted as "03/02/2015" and was used to containerize IDW purge water throughout the event.

EIC utilized a peristaltic pump for purging and sampling groundwater. Disposable 1/4-inch inner diameter (ID) Teflon-lined tubing and silicon tubing at the pump head 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-measured height of the well TOC above the ground surface, the established field-measured depth to bottom, and the documented well total depth and screened interval on well construction logs. Following the SOP SESDPROC-301-R3 (EPA, 2013), EIC set the tubing intake at approximately the center of the wetted screen interval. The pump speed was set based on well recharge and time for groundwater quality standards to reach stabilization, based on previous sampling events, to limit drawdown and purge time at each well. In the event that the recharge rate was anomalous compared to previous sampling events, the pump speed was adjusted accordingly and noted on the field purging data forms. These forms are included as Attachment F.

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 at or below 10 nephelometric turbidity units (NTUs). These measurements were recorded on EIC's Well Purging and Sampling Data field logs (Attachment F). Groundwater quality field parameters after

stabilization and prior to sample collection are summarized in Table 6-2. Note that two wells sampled during the March 2015 event (MW-19, and MW-22) 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 sample bottles with water discharged directly from the pump. All sample bottles were properly sealed and labeled in the field. Each sample was then stored with double-bagged ice in insulated cooler containers provided by the laboratory. Completed chain-of-custody forms accompanied all samples.

After sample collection, EIC gauged the depth to bottom of all wells with the exception of MW-17. This information is recorded in EIC's Well Purging and Sampling Data field logs (Attachment F). At the conclusion of sampling activities, EIC sealed the 55-gallon drum containing IDW purge water.

EIC relinquished all samples to Xenco at their laboratory immediately after EIC personnel returned from the site. Laboratory analysis included organochlorine pesticides contaminants using EPA Method 8081B/3660B (sulfur cleanup). The laboratory report for the March sampling event is included as Attachment G. The results of these analyses are summarized in Table 6-3 along with historical groundwater analysis. Please note that the sample from well MW-11 was analyzed past recommended hold time due to laboratory error. As noted in the case narrative, the sample was analyzed less than 24 hours past the recommend hold time and results were comparable to historical values observed at MW-11.

6.2 QUALITY ASSURANCE AND QUALITY CONTROL

During the groundwater sampling event in March 2015, EIC collected additional samples for quality assurance (QA) and for the validation of analytical results. For organochlorine pesticides laboratory matrix spike analysis, one additional sample from wells MW-8 and MW-22 was collected. A duplicate sample from well MW-10, and an equipment rinsate (blank) sample were also collected. The equipment blank sample was collected by pumping de-ionized water through a 10-foot section of Teflon-lined tubing and approximately 6-inches of silicone tubing.

Each QA sample collected at the site was stored with ice in coolers and delivered to the laboratory along with the groundwater samples. These samples were analyzed via EPA method 8081B/3660B. All sample bottles were properly sealed and labeled in the field.

To prevent cross-contamination, new disposable Teflon-lined tubing and disposable silicone tubing were used to collect all samples. EIC's oil/water interface probe and tubing cutter tool were field decontaminated prior to use and between sample locations by washing with pressurized 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, pressurized phosphate-free detergent.

6.2.1 QA Evaluation

The analytical results of all of the parameters in the equipment blank except beta- and delta-BHC with concentrations of 0.0700 µg/L and 0.0340 µg/L, respectively, were below the MDL. The concentrations observed for beta- and delta-BHC may be false positives due to a Relative Percent Difference (RPD) issue that is documented in the lab case narrative. In the duplicate MW-10 sample, alpha, beta-, delta-, and gamma-BHC constituents were all above the MDL, in concurrence with the primary MW-10 sample, and both the primary as well as duplicate samples had similar concentrations.

6.3 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 COC plumes for the March 2015 monitoring events. Data from the sampling events was compared to the data from the baseline event in March 2013 and with each of the three subsequent quarterly sampling events to determine if monitored natural attenuation is in progress at the site and if it is likely to lead to remedial end points.

6.3.1 Groundwater Potentiometric Map

Utilizing gauging data summarized in Table 6-1 from the March 2015 groundwater monitoring event, EIC prepared a groundwater potentiometric surface map, illustrated in Figure 6-2. For comparative purposes, the contour interval utilized for the groundwater potentiometric surface analyses was identical to those prepared from previous sampling events documented in previous semi-annual reports. Referring to Figure 6-2, it is apparent that groundwater continues to flow to the southeast towards the Flint River.

As illustrated in Figure 6-2, the significant correction to the TOC elevation of MW-2, discussed in Section 3.2 of this report, indicated that there is a relatively lower hydraulic gradient across the southeastern portion of the site. Table 6-4 shows historical and current groundwater potentiometric surface elevations for all wells at the site as well as statistical data for each monitoring event. Referring to Table 6-4, the average groundwater elevation across the site for the March 2015 gauging event was 78.79 ft. This value lies between the average ground water elevations of 79.25 ft. and 77.09 ft. from the March and September 2014 groundwater monitoring events, respectively. This continues to support the general trend of seasonal groundwater fluctuation apparent at the site since the beginning of VIRP monitoring.

In reviewing the data from the March 2015 monitoring, EIC observed that the groundwater elevation at MW-10 was anomalous relative to the adjacent wells MW-7 and MW-21. This anomaly is apparent in Table 6-4 when groundwater levels during the March 2015 event from these three wells are compared with those of previous sampling events. As such, the calculated groundwater elevation for MW-10 was not considered in depicting the groundwater potentiometric surface contours in Figure 6-2.

6.3.2 Horizontal Extent of COC Plumes

Figures 6-3 through 6-5 illustrate the horizontal extent of the BHC plumes comprised of alpha-BHC, beta-BHC, and delta-BHC during March 2015. For trend analysis, EIC utilized the same isoconcentration contour intervals as those illustrated in the VIRP submittal and in subsequent plume renderings. Additionally, the contours that illustrate delineation criterion and the RRS limits define the horizontal extent of pesticides and the extent of COC plumes that require remediation.

6.3.2.1 Alpha-BHC Plume

From Figure 6-3, both the concentration and horizontal extent of the alpha-BHC plume have decreased over time compared to the March 2013 baseline. The highest concentration in March 2015 occurred in the area of MW-22 (0.477 µg /L). The outer limits of the plume were defined by surrounding relatively low concentrations at wells MW-1, MW-1A, MW-5A, MW-7, MW-15, and MW-20. In March 2015, the leading edge of the plume receded northwest, away from the area of MW-8, and is similar to the March 2013 baseline and March 2014 sampling events.

It is noteworthy, that the alpha-BHC concentrations in all wells at the site were below RRS for the March 2015 sampling event. Figure 6-3 illustrates that the horizontal delineation of the alpha-BHC plume above RRS is complete.

6.3.2.2 Beta-BHC Plume

Figure 6-4 illustrates the horizontal extent of the beta-BHC plume during the March 2015 monitoring event. It is apparent that both the beta-BHC concentrations and horizontal extent of associated plume have fluctuated from March 2013 to March 2015. In March 2015, the highest concentrations of beta-BHC plume was detected in MW-22 (21.6 µg/L) located hydraulically up-gradient of the GPA property and to the north of Spring Creek Road.

Referring to the data from the September 2014 sampling event, there was an increase in beta-BHC at MW-5A and MW-5D from both below MDL in March 2014 to 7.47 and 18.2 µg/L, respectively, as shown in Table 6-3. However, in March 2015, the concentrations have decreased to 1.63 and 4.47 µg/L, respectively.

Near the Flint River at MW-23, however, the Beta-BHC concentrations were above RRS but changed relatively little, decreasing from 5.17 µg/L in September 2014 to 4.63 µg/L in March 2015. This is an indication of plume stability near the river.

In March 2015, a smaller secondary plume was observed at MW-13 with a concentration of 3.29 µg/L. Groundwater sampled from the newly installed well MW-24 suggests the secondary plume surrounding MW-13 does not extend past MW-24.

Referring to Figure 6-4, it is apparent that the horizontal extent of the beta-BHC plume is defined to the northeast and southwest. The horizontal extent remains undefined to the northwest and upgradient beyond Spring Creek Road.

6.3.2.3 Delta-BHC Plume

Figure 6-5 illustrates the horizontal extent of the delta BHC plume during the March 2015 monitoring event. It is apparent that both the concentrations and horizontal extent of the delta-BHC contaminant plume have remained relatively stable across the site with the exception of the area of MW-22. In March 2015, the highest concentrations of the delta-BHC plume occurred at MW-22 (9.53 µg/L). Figure 6-5 illustrates that the horizontal delineation of the delta-BHC plume relative to RRS is complete, except to the north beyond Spring Creek Road.

6.3.3 Vertical Extent of COC Plumes

There are two deep wells at the site, designated as wells MW-14 and MW-17. 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 6-3, following historical trends, the concentrations of alpha-BHC, beta-BHC, and delta-BHC at wells MW-14 and MW-17, have remained below RRS through the March 2015 sampling event. As discussed in the Fourth Semi-annual report (EIC, 2014), EPD concurs with EIC that the vertical limits of the BHC plume has been defined.

6.3.4 BHC Plume Stability

Based on the findings in Sections 6.3.1 through 6.3.3, it is apparent that the BHC plume has remained stable. Based on recent sampling data, the overall concentrations and horizontal extent of BHC has decreased significantly since September 2014. EIC will continue to evaluate data from subsequent groundwater monitoring events to further define plume trends and to determine potential impact from groundwater fluctuations.

SECTION

7

7. SITE CONCEPTUAL MODEL

As specified in the Fourth Semi-annual Progress Report (EIC 2014b), EIC has updated the site SCM (Appendix A). The updated SCM addresses site hydrogeological conditions, soil contamination delineation, groundwater trend analysis, contaminate fate and transport, and potential human and ecological receptors. EIC will continue to update the SCM as COC flux changes and as more information is obtained.

SECTION

8

8. SUMMARY

During the six month period from November 2014 through April 2015, EIC has successfully completed various tasks to meet the primary objectives set forth in the VIRP. The following is a summary of various tasks conducted during this six-month period.

Horizontal delineation of COC's in soil matrix within the AOC-2 is now complete. Considering that the areas to the west and south of AOC-2 are paved with an impervious surface, it is clear that the site engineering and institutional controls are adequate to address the contaminated soil management objectives for the area as described in the VIRP application. Consequently, GPA has met all objectives outlined in the VIRP pertaining to the management of contaminated soils. GPA will therefore manage the prevailing soil contamination in the South Parcel using site covenants and engineering controls as stated in the VIRP.

Based on the analytical data from the newly installed well MW-24, it appears that the horizontal delineation of groundwater to the west of the site is complete. EIC utlizied a licensed surveyor to complete a survey of all wells to reconfirm the TOC elevations referenced to a common bench mark. This enabled EIC to reconfirm the groundwater elevations and flow direction that continues to flow to the southeast. The IDW that was generated during the aforementioned site activities was characterized in December 2014 and subsequently disposed of in January 2015 along with all other IDW generated since a previous IDW disposal event in December 2013.

Relative to historical groundwater COCs, the alpha-BHC concentrations in groundwater in all site wells were below RRS based on the March 2015 groundwater analytical results. This reduction can be attributed to MNA at the site or a potential effect from groundwater fluctuations. The highest concentrations of beta-BHC and delta BHC in groundwater, however, continues to be located hydraulically up-gradient of the GPA facility and to the north of the Spring Creek Road.

In summary, EIC has successfully completed several tasks since November 2014 consistent with the VIRP objectives. In particular, EIC has made significant progress in several areas concerning delineation of contaminants and completion of soil management objectives. EIC will continue to implement the remainder of the tasks outlined in the VIRP and work towards remedial endpoints.

SECTION

9

9. SUMMARY OF HOURS

A monthly summary of hours invoiced for the aforementioned tasks during the period from November 2014 through April 2015 is included as Attachment H.

SECTION

10

10. REFERENCES

Environmental International Corporation (EIC), 2012. "*VIRP Application, BHC Remediation*", Alpharetta, Georgia, July 31, 2012.

EIC, 2013a. "*First VIRP Semi-annual Progress Report, Georgia Ports Authority – Bainbridge Terminal, HIS Site No. 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19, Bainbridge, Decatur County, Georgia".* Alpharetta, Georgia, May 9, 2013.

EIC, 2013b. "*Second VIRP Semi-annual Progress Report, Georgia Ports Authority – Bainbridge Terminal, HIS Site No. 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19, Bainbridge, Decatur County, Georgia".* Alpharetta, Georgia, October 30, 2013.

EIC, 2014a. "*Third VIRP Semi-annual Progress Report, Georgia Ports Authority – Bainbridge Terminal, HIS Site No. 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19, Bainbridge, Decatur County, Georgia".* Alpharetta, Georgia, April 29, 2014.

EIC, 2014b. "*Fourth VIRP Semi-annual Progress Report, Georgia Ports Authority – Bainbridge Terminal, HIS Site No. 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19, Bainbridge, Decatur County, Georgia".* Alpharetta, Georgia, October 30, 2014.

U. S. Environmental Protection Agency (EPA), 2011. "*Field Equipment Cleaning and Decontamination, Operating Procedure, Number SESDPROC-205-R2."* Region 4, U.S. Environmental Protection Agency, Science and Ecosystem Support Division, Athens, Georgia. December 20, 2011.

EPA, 2013. "*Groundwater Sampling, Operating Procedure, Number SESDPROC-301-R3*." Region 4, U.S. Environmental Protection Agency, Science and Ecosystem Support Division, Athens, Georgia. March 6, 2013.

EPA, 2014. "*Soil Sampling, Operating Procedure, Number SESDPROC-300-R3*." Region 4, U.S. Environmental Protection Agency, Science and Ecosystem Support Division, Athens, Georgia. August 21, 2014.

Georgia Environmental Protection Division (EPD), 2014. *Letter from GA EPD to GPA, "First, Second, and Third VIRP Semi-Annual Progress Reports, Groundwater Monitoring Report July 2, 2014,*

Comment Letter, Georgia Ports Authority – Bainbridge Terminal, Hazardous Site Inventory Number 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19". Atlanta, Georgia, July 2, 2014.

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

FIFTH VIRP SEMI-ANNUAL PROGRESS REPORT

TABLES

Table 5-1: Maximum Concentration of Contaminants for the Toxicity Characteristics in Solid Waste				
EPA HW No.1	**Contaminant**	**CAS Number**	**Regulatory Level (mg/L)***	**Maximum Concentration from Composite Drum Samples (mg/L)**
D020	Chlordane	57–74–9	0.03	<0.000963
D012	Endrin	72–20–8	0.02	<0.000046
D031	Heptachlor (and its epoxide)	76–44–8	0.008	<0.000028
D013	Lindane	58–89–9	0.4	<0.000016
D014	Methoxychlor	72–43–5	10	<0.000288
D015	Toxaphene	8001–35–2	0.5	<0.004230

Notes:

* = Regulatory levels for toxicity characteristics are listed in 40 CFR 261.24, 2006

only Site Contaminents of Concern, organochlrorine pesticides, are shown

HW = Hazardous Waste

mg/L = Milligrams per liter

BDL = Below detection limit

Table 5-2: Summary of Historical Contaminant Concentrations in Liquid Waste				
EPA HW No.	**Contaminant**	**CAS Number**	**Regulatory Level (mg/L)***	**Maximum Concentrations Recorded from Purged Groundwater (mg/L)**
D020	Chlordane	57–74–9	0.03	0.0051
D012	Endrin	72–20–8	0.02	0.00505
D031	Heptachlor (and its epoxide)	76–44–8	0.008	0.00253
D013	Lindane	58–89–9	0.4	0.00089
D014	Methoxychlor	72–43–5	10	0.0253
D015	Toxaphene	8001–35–2	0.5	0.253

Notes:
* = Regulatory levels for toxicity characteristics are listed in 40 CFR 261.24, 2006
only Site Contaminents of Concern, organochlrorine pesticides, are shown
EPA = Environmentla Protection Agency
HW = Hazardous Waste
mg/L = Milligrams per liter.

Table 6-1: Well Gauging Data for March 2015 Monitoring Event

Well ID # (Well Diameter, in.)	TOC Elevation*	DTW	DTB	Groundwater Surface Elevation	Notes
	ft.	ft.	ft.	ft.	
MW-1 (2)	105.22	26.11	32.80	79.11	
MW-1A (2)	105.33	26.22	36.81	79.11	
MW-2 (2)	98.86	19.88	29.20	78.98	
MW-3 (2)	97.12	18.17	27.32	78.95	
MW-4U (2)	103.51	24.52	32.38	78.99	
MW-5A (2)	96.67	17.73	22.82	78.94	
MW-5D (2)	96.12	17.18	24.88	78.94	
MW-6 (2)	102.25	23.29	51.81	78.96	
MW-7 (2)	98.10	18.69	22.25	79.41	
MW-8 (2)	93.54	14.64	21.96	78.90	
MW-9 ** (2)	NL	NA	NA	NA	
MW-10 (2)	99.83	20.75	30.75	79.08	
MW-11 (2)	100.87	21.37	27.50	79.50	
MW-12 (2)	94.06	15.40	22.53	78.66	
MW-13 (2)	93.55	15.08	22.03	78.47	
MW-14 (2)	102.11	23.00	71.50	79.11	
MW-15 (2)	98.13	19.20	21.51	78.93	
MW-16 (2)	97.15	17.93	23.83	79.22	Bailed water from vault ~ 0.5" above TOC prior to gauging
MW-17 (2)	93.65	14.53	NM	79.12	DTB measured in September 2013 was 60.61 ft.
MW-18 (2)	95.56	16.54	32.83	79.02	
MW-19 (2)	96.6	17.54	32.43	79.06	Bailed water from vault ~1" above TOC prior to gauging
MW-20 (2)	96.57	17.28	32.88	79.29	
MW-21 (2)	97.55	18.19	31.50	79.36	Bailed water from vault ~1" above TOC prior to gauging
MW-22 (2)	98.88	19.60	33.54	79.28	
MW-23 (2)	93.61	14.88	24.00	78.73	
MW-24 (2)	93.07	14.35	22.81	78.72	

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 purging, with the exception of MW-17

*TOC elevations were based on survey conducted by Donaldson, Garrett, & Associates, Inc. in April 2015

** Well Not Located

TOC = Top of Casing

DTW = Depth to Water below TOC

DTB = Depth to Bottom below TOC

NA = Not Applicable

NM = Not Measured

Table 6-2: Chronological Groundwater Quality Field Parameters Summary Table

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	0.72	2.20	4.58
	3/25/2014	19.10	4.07	377.00	0.55	0.00	4.99
	9/4/2014	23.21	3.70	382.00	0.63	4.50	4.99
	3/3/2015	18.94	3.06	354.00	0.51	0.00	2.65
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
	3/25/2014	17.97	4.01	400.00	0.761	0.00	2.26
	9/4/2014	22.15	3.78	372.00	0.818	35.40	3.61
	3/3/2015	20.02	3.17	334.00	0.704	0.00	1.80
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
	3/25/2014	17.33	4.84	295.00	0.065	0.00	4.16
	9/3/2014	18.94	3.86	226.00	0.075	0.00	1.16
	3/2/2015	18.38	4.14	275.00	0.066	0.00	2.58
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
	3/25/2014	19.18	5.57	220.00	0.065	0.00	6.43
	9/4/2014	19.98	4.65	231.00	0.072	17.50	4.97
	3/3/2015	16.34	4.47	665.00	0.077	0.00	7.00
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
	3/25/2014	20.85	4.44	308.00	0.262	0.00	3.76
	9/4/2014	20.30	3.68	309.00	0.198	0.00	4.95
	3/3/2015	17.80	3.48	325.00	0.284	0.00	4.80

Table 6-2: Chronological Groundwater Quality Field Parameters Summary Table

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-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
	3/26/2014	20.00	4.22	260.00	0.608	0.00	3.24
	9/5/2014	23.84	4.03	308.00	0.829	0.00	1.47
	3/5/2015	22.58	3.37	259.00	1.070	0.00	3.37
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
	3/26/2014	18.91	3.53	275.00	1.870	0.00	0.60
	9/3/2014	24.94	3.62	300.00	0.988	0.00	0.71
	3/5/2015	21.45	3.17	286.00	2.040	0.00	1.30
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
	3/26/2014	21.58	5.80	61.00	1.760	15.20	0.71
	9/4/2014	22.84	5.70	65.00	1.870	86.00	0.66
	3/4/2015	22.52	5.67	43.00	1.610	2.70	0.45
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
	3/26/2014	18.95	3.91	284.00	0.541	0.00	1.63
	9/3/2014	24.29	3.45	304.00	0.926	0.00	1.47
	3/4/2015	23.72	7.91	288.00	0.524	0.00	1.25

Table 6-2: Chronological Groundwater Quality Field Parameters Summary Table

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	0.64	0.00	1.31
	3/26/2014	18.72	3.93	274.00	0.734	1.10	3.57
	9/3/2014	27.23	3.41	311.00	0.730	0.00	1.29
	3/5/2015	21.74	3.25	244.00	1.220	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
	3/25/2014	NL	NL	NL	NL	NL	NL
	9/3/2014	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
	3/26/2014	20.16	3.88	320.00	0.823	0.00	1.71
	9/3/2014	23.99	3.63	288.00	0.911	0.00	1.43
	3/5/2015	20.05	3.11	297.00	1.430	0.00	2.08
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
	3/25/2014	18.20	4.19	351.00	0.190	6.70	5.06
	9/3/2014	20.20	3.30	300.00	0.182	0.00	4.85
	3/5/2015	18.46	3.44	320.00	0.181	0.00	4.68

Table 6-2: Chronological Groundwater Quality Field Parameters Summary Table

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-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
	3/26/2014	18.64	5.93	213.00	1.070	0.00	1.38
	9/2/2014	23.31	6.87	117.00	0.619	0.00	0.62
	3/4/2015	22.47	5.89	101.00	0.846	0.00	3.27
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
	3/26/2014	17.75	4.95	77.00	0.42	0.00	0.91
	9/2/2014	22.57	5.93	211.00	0.48	0.00	1.69
	3/5/2015	18.20	4.53	68.00	0.93	0.00	1.45
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
	3/25/2014	18.53	7.40	-146.00	0.267	5.80	0.66
	9/4/2014	22.27	7.51	-163.00	0.290	1.90	0.51
	3/4/2015	21.41	7.67	-180.00	0.250	0.00	2.65
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
	3/26/2014	16.50	4.30	292.00	4.94	0.00	1.32
	9/3/2014	24.75	4.29	250.00	3.77	0.00	1.75
	3/4/2015	21.30	4.51	237.00	2.60	0.00	0.68

Table 6-2: Chronological Groundwater Quality Field Parameters Summary Table

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-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
	3/26/2014	19.59	4.96	236.00	0.030	0.00	4.99
	9/3/2014	28.38	4.75	259.00	0.026	0.00	4.33
	3/3/2015	20.72	4.53	183.00	0.025	0.00	6.34
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
	3/27/2014	19.70	7.50	2.00	0.413	9.60	0.48
	9/2/2014	25.89	7.17	-118.00	0.401	11.10	0.40
	3/3/2015	20.04	6.74	-58.00	0.498	0.00	0.52
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
	3/26/2014	21.36	6.79	124.00	1.880	0.80	1.36
	9/4/2014	25.62	6.27	221.00	1.910	0.80	0.60
	3/4/2015	22.61	6.68	112.00	1.430	7.90	0.68
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
	3/25/2014	20.52	4.31	282.00	1.380	95.00	0.85
	9/3/2014	25.69	4.00	313.00	1.320	13.20	0.63
	3/4/2015	21.20	3.95	331.00	1.130	98.10	0.58

Table 6-2: Chronological Groundwater Quality Field Parameters Summary Table

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-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
	3/27/2014	17.58	4.34	308.00	0.253	0.00	6.49
	9/5/2014	23.44	3.84	304.00	0.394	0.00	6.74
	3/5/2015	17.67	3.72	273.00	0.445	0.00	6.53
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
	3/27/2014	21.74	5.17	194.00	0.222	14.10	3.55
	9/5/2014	25.15	3.83	305.00	0.889	0.00	4.24
	3/5/2015	19.01	3.54	282.00	1.110	0.00	4.09
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
	3/27/2014	18.50	3.86	356.00	0.650	9.90	2.99
	9/5/2014	25.73	3.83	337.00	0.697	0.00	2.90
	3/6/2015	18.55	3.58	295.00	0.742	23.30	2.76

Table 6-2: Chronological Groundwater Quality Field Parameters Summary Table

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-23 (2)	7/8/2014	24.94	3.74	358.00	1.310	0.00	1.34
	9/2/2014	26.47	4.67	154.00	1.040	0.00	0.55
	3/5/2015	23.11	4.47	177.00	1.470	0.00	0.93
MW-24 (2)	3/3/2015	20.86	5.72	189.00	0.214	0.00	2.14

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

Notes:

Field parameters were recorded by EIC from December 2013 to March 2015, 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 6-3: Groundwater Pesticides Data Summary

	Test 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	
Site-Specific RRS Values		**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**	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag
MW-1	4/15/2008	0.010	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	0.051	U	0.051	U	0.51	U
	8/5/2009	**0.095**		**0.113**		0.051	U	**0.065**		0.051	U	0.051	U	0.051	U	**0.00462**	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
	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00722	U	0.00742	U	0.00722	U	0.01320	U	0.0105	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
	3/25/2014	0.003	U	0.00232	U	0.00131	U	0.00169	U	0.00551	U	0.00323	U	0.00142	U	0.00099	U	0.001500	U	0.00598	U	0.00144	U	0.00175	U	0.00298	U	0.00115	U	0.03430	U	0.00176	U	0.00341	U	0.00484	U	0.00326	U	0.00141	U	0.0762	U
	9/4/2014	**0.0343**	J	**0.231**		0.002	U	**0.0362**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	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
	3/3/2015	0.0101	U	0.0023	UF	0.002	UF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
MW-1A	9/1/2001	0.100	U	0.1	U	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	0.010	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	0.051	U	0.051	U	0.51	U
	8/5/2009	**0.092**		**0.158**		0.051	U	**0.063**		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
	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00711	U	0.00731	U	0.00711	U	0.01300	U	0.0104	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
	3/25/2014	0.003	U	0.00237	U	0.00134	U	0.00173	U	0.00562	U	0.00329	U	0.00145	U	0.00101	U	0.001530	U	0.0061	U	0.00147	U	0.00179	U	0.00304	U	0.00117	U	0.03500	U	0.0018	U	0.00347	U	0.00494	U	0.00333	U	0.00144	U	0.0777	U
	9/4/2014	**0.0234**	J	**0.161**		**0.0046**	J	**0.0213**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/3/2015	0.0101	U	**0.0214**	JF	0.002	UF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
MW-2	4/16/2008	0.010	U	**0.0099**	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	0.51	U
	7/14/2011	0.050	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00711	U	0.00731	U	0.00711	U	0.01300	U	0.0104	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	0.01040	U	0.0107	U	0.00822	U	0.00711	U	0.00822	U	0.00731	U	0.00508	U
	3/25/2014	0.003	U	0.00231	U	0.00131	U	0.00168	U	0.00548	U	0.00321	U	0.00142	U	0.00099	U	0.001490	U	0.00595	U	0.00143	U	0.00175	U	0.00269	U	0.00115	U	0.03420	U	0.00176	U	0.00339	U	0.00482	U	0.00324	U	0.00141	U	0.0758	U
	9/3/2014	0.0101	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/2/2015	0.0101	U	0.0023	UF	0.002	UF	0.0016	U	0.00290	U	0.0026	U	0.00208	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.02200	U	0.00450	UF	0.423	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		NS	
	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.009	U	0.00824	U	0.00847	U	0.00824	U	0.01510	U	0.012	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
	3/25/2014	0.003	U	0.00235	U	0.00133	U	0.00171	U	0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.001510	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	U
	9/4/2014	0.0101	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	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
	3/3/2015	0.0101	U	0.0023	UF	0.002	UF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
MW-4U	9/1/2001	0.100	U	0.1	U	**0.1**	U	0.1	U	NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	U
	4/15/2008	0.010	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.52	U
	8/5/2009	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.101	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	U
	3/28/2013	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00788	U	0.008	U	0.00778	U	0.01420	U	0.0113	U	0.00922	U	0.00878	U	0.00050	U	0.009	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
	3/25/2014	0.003	U	0.00235	U	0.00133	U	0.00171	U	0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	U
	9/4/2014	0.0101	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	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
	3/3/2015	0.0101	U	0.0023	UF	0.002	UF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
MW-5A	4/16/2008	**0.120**		**2.4**		**0.63**		**0.04**	J	0.051	U	**0.023**	J	0.051	U	0.051	U	**2.7**		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	**0.14**		0.51	U
	8/4/2009	**0.510**	J	**18**		**2.2**		**0.155**	J	1.01	U	1.01	U	1.01	U	1.01	U	1.70	U	2.02	U	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	1.01	U	**0.340**	J	101	U
	7/15/2011	**0.130**		**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	**0.430**	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	**0.100**		**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	0.010	U	**0.389**		0.002	U	0.0016	U	0.00290	U	**0.0286**	J	**0.236**		0.00240	U	**2.75**	D	0.0035	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	0.009	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
	3/26/2014	**0.239**		0.00232	U	**0.668**		**0.24**		0.00551	U	0.0747	U	0.00142	U	0.00099	U	0.0015	U	0.00598	U	0.00144	U	0.00175	U	0.00298	U	0.00115	U	0.03430	U	0.00176	U	0.00341	U	0.00484	U	0.00326	U	0.244	U	0.0762	U
	9/5/2014	**0.322**		**7.47**	D	**1.01**	D	**0.298**		0.00290	U	**0.0787**		0.00280	U	0.00240	U	**1.99**	D	0.0035	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	**0.235**		0.423	U
	3/3/2015	**0.062**		**1.63**	DF	**0.255**	F	**0.0545**		0.00290	U	**0.0219**		0.00280	U	0.00240	U	**1.80**		0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	**0.070**	J	0.423	U
MW-5D	7/1/2001	**1.000**		**8.7**		**3.7**		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/15/2008	**0.190**		**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	**1.180**	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	**0.500**	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	**0.660**		**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	**0.720**		**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	0.0098	U	0.0049	U	0.0049	U	0.0098	U	0.98	U
	3/26/2013	0.002	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	0.010	U	**0.12**		0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.012	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
	3/26/2014	0.003	U	0.00232	U	0.00131	U	0.00169	U	0.00551	U	0.00323	U	0.00141	U	0.00099	U	0.002	U	0.00598	U	0.00144	U	0.00175	U	0.00298	U	0.00115	U	0.03430	U	0.00176	U	0.00341	U	0.00484	U	0.00326	U	0.00141	U	0.0762	U
	9/3/2014	**0.352**		**18.2**	D	**1.93**	J	**0.383**		0.00287	U	0.00257	U	0.00277	U	0.00238	U	**0.360**		0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.00285	U	0.00851	U	0.00178	U	0.00218	U	**0.0541**	J	0.419	U
	3/5/2015	**0.145**		**4.47**	DF	**1.77**	J	**0.143**		0.00290	U	0.00260	U	0.00280	U	0.00240	U	**0.080**	J	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	**0.0204**	JF	0.423	U

Table 6-3: Groundwater Pesticides Data Summary

	Test 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	
Site-Specific RRS Values		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**	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag
MW-6	9/1/2001	1.840		1.39		2.22		0.31		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/1/2002	1.200		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	1.700		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	2.360		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	2.500		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	1.400		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	1.400	*	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	1.290		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	1.230		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	1.510	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	0.0035	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	1.680		1.67		2.71	DX	0.035		0.0142	U	0.0113	U	0.00922	U	0.00878	U	0.000522	J	0.009	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	0.008	U	0.00556	U
	3/26/2014	0.797		1.16		1.98		0.00173	U	0.00562	U	0.00329	U	0.00145	U	0.00101	U	0.00153	U	0.0061	U	0.00147	U	0.00179	U	0.00304	U	0.00117	U	0.03500	U	0.0018	U	0.00347	U	0.00494	U	0.00333	U	0.00144	U	0.0777	U
	9/8/2014	0.907	D	1.15	D	1.81	D	0.00158	U	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/4/2015	0.348		0.594	F	1.17	DF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
MW-7	9/1/2001	20.510		3.23		1.35		2.66		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	6/1/2002	4.300		1.2		1		1.3		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/14/2008	0.580		0.4		0.021	J	0.032	J	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.52	U
	8/5/2009	0.137		0.564		0.051	U	0.129		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	0.051	U	0.00823	J	0.101	U	5.05	U
	3/27/2013	0.030	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	0.002	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	0.061		0.365		0.002	U	0.0332	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.023		0.31		0.0126	J	0.0487		0.01420	U	0.0113	U	0.00922	U	0.00878	U	0.00184	J	0.009	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	0.008	U	0.00556	U
	3/26/2014	0.018		0.264		0.00133	U	0.034		0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/3/2014	0.0364	J	0.409		0.00198	U	0.0660		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/4/2015	0.0101	U	0.427	F	0.0132	JF	0.0334	J	0.00290	U	0.0026	U	0.00280	U	0.00430	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
MW-8	9/2/2001	0.100	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	0.310		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	0.210		2.1	*	0.28		0.13		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	0.0049	U	0.0097	U	0.0049	U	0.0049	U	0.0097	U	0.97	U
	3/26/2013	0.032	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	0.0026	U	0.00280	U	0.00240	U	0.00961	J	0.0035	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	0.0113	U	0.00922	U	0.00878	U	0.0101	J	0.009	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	0.008	U	0.00556	U
	3/26/2014	0.061		0.829		0.0899		0.0392		0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/8/2014	0.179		1.31	D	0.272		0.145		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.0148	J	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/5/2015	0.013	J	0.542	F	0.0231	JF	0.0108	J	0.00180	U	0.0026	U	0.00280	U	0.00240	U	0.0071	J	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
MW-9	9/1/2001	0.770		5.01		0.82		0.42		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NL	
	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	
	3/25/2014	NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL	
	9/4/2014	NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL	
	3/5/2015	NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL	
MW-10	4/1/2002	1.900		9		3.7		0.86		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	6/3/2002	1.500	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	2.000		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	1.450		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	1.200		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	1.360		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	0.710		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		8.6	D	0.511		0.307		0.346		0.0026	U	0.00280	U	0.00240	U	0.00961	J	0.0035	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		0.064	U	0.051	U	0.04150	U	0.03950	U	0.00725	J	0.0405	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	0.025	U
	3/26/2014	0.315		0.00235	U	0.289		0.147		0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/3/2014	0.443		7.62	D	0.489		0.189		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/5/2015	0.243		4.75	DF	0.294	F	0.111		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
MW-11	4/1/2002	0.100	U	0.1	U	0.1	U	0.1	U	NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/16/2008	0.010	U	0.024	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	0.51	U
	7/14/2011	0.050	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00714	U	0.00735	U	0.00714	U	0.01310	U	0.0104	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	0.0051	U
	3/25/2014	0.003	U	0.027		0.00133	U	0.00171	U	0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.001510	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/3/2014	0.0101	U	0.0181	J	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/2/2015	0.0101	UK	0.0108	JKF	0.002	UKF	0.0016	UK	0.00290	UK	0.0026	UK	0.00280	UK	0.00240	UK	0.00430	UK	0.0035	UK	0.00460	UK	0.00450	UK	0.00370	UK	0.00700	UKF	0.00490	UK	0.0288	UK	0.00860	UKF	0.00180	UK	0.00220	UK	0.00450	UK	0.423	UK

Table 6-3: Groundwater Pesticides Data Summary

	Test 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	
Site-Specific RRS Values		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**	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag
MW-12	4/1/2002	**0.390**		**1.3**		**0.43**		**0.18**		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	6/1/2002	**0.400**		**1.4**		**0.3**		**0.1**		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/15/2008	**0.034**		**0.44**		**0.022**	J	**0.024**	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	0.51	U
	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	**0.750**		**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	**0.710**		**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	0.0049	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	0.002	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	**0.015**	J	**0.847**		0.002	U	**0.00783**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.077	U	**0.601**		0.075	U	0.0729	U	0.13300	U	0.106	U	0.08650	U	0.08230	U	0.00469	U	0.0844	U	0.11800	U	0.09380	U	0.08650	U	0.10100	U	0.11700	U	0.109	U	0.08440	U	0.07290	U	0.08440	U	0.07500	U	0.0521	U
	3/26/2014	**0.010**		**0.539**		**0.00532**		**0.0138**		0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/2/2014	**0.0227**	J	**0.660**		**0.0093**	J	**0.0107**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/4/2015	0.0101	U	**0.086**	F	0.002	UF	**0.0033**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
MW-13	4/1/2002	**0.260**		**8**		**0.6**		**0.16**		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	6/1/2002	**0.400**		**11**		**1.4**		**0.5**		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/14/2008	**0.059**		**9**		**0.12**		**0.045**	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	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.5	U
	8/4/2009	**0.120**	J	**11**		**0.63**	J	1.01	U	1.01	U	1.01	U	1.01	U	1.01	U	2.02	U	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	1.01000	U	2.02	U	101	U
	3/27/2013	0.002	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	**0.052**		**6.36**	D	**0.0849**		**0.0307**	J	**0.454**		0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	
	3/26/2014	**0.022**		**4**		**0.032**		**0.0571**		0.0107	U	0.00627	U	0.00276	U	0.00193	U	0.00290	U	0.0116	U	0.00280	U	0.00193	U	0.00579	U	0.00224	U	0.06670	U	0.00343	U	0.00661	U	0.00941	U	0.00633	U	0.00274	U	0.148	U
	9/2/2014	**0.0319**	J	**3.87**	D	**0.0782**		**0.0517**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/5/2015	**0.0206**	J	**3.29**	DF	**0.101**	F	**0.0507**		0.00290	U	0.0026	U	0.00280	U	0.00430	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
MW-14	4/10/2003	**0.200**		**0.1**		**0.1**	U	0.1	U	0.1	U	0.1	U	0.1	U	0.5	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	NM		NM		NM		2.0	U
	4/14/2008	0.010	U	**0.18**		**0.004**	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	0.51	U
	8/4/2009	0.051	U	**0.028**	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	0.102	U	0.102	U	0.102	U	0.102	U	0.510	U	0.102	U	0.051	U	0.051	U	0.102	U	5.10	U
	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	5.10	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.076	U	0.0718	U	0.0738	U	0.0718	U	0.13100	U	0.105	U	0.08510	U	0.08100	U	0.00462	U	0.0831	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
	3/25/2014	0.003	U	**0.243**		0.00134	U	**0.00702**		0.00562	U	0.00329	U	0.00145	U	0.00101	U	0.00153	U	0.0061	U	0.00147	U	0.00179	U	0.00304	U	0.00117	U	0.03500	U	0.0018	U	0.00347	U	0.00494	U	0.00333	U	0.00144	U	0.0777	U
	9/4/2014	0.0101	U	0.311		0.002	U	**0.0025**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/4/2015	0.0101	U	**0.179**	F	**0.0026**	JF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
MW-15	4/10/2003	**6.800**		**1.1**		**0.7**		**1.3**		0.1	U	0.1	U	0.1	U	0.5	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	NM		NM		NM		2.0	U
	4/16/2008	**0.058**		**0.37**		**0.007**	J	**0.042**	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	0.51	U
	8/5/2009	**0.103**		**0.565**		**0.01**	J	**0.067**		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	0.051	U	0.051	U	0.101	U	5.05	U
	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	**0.080**		**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	DRY
	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	**0.057**		**0.221**		0.002	U	**0.0245**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	DRY
	12/3/2013	DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY	
	3/26/2014	**0.041**		**0.317**		0.00135	U	**0.0458**		0.00568	U	0.00333	U	0.00147	U	0.00102	U	0.00154	U	0.00616	U	0.00149	U	0.00181	U	0.00307	U	0.00119	U	0.03540	U	0.00182	U	0.00351	U	0.00499	U	0.00336	U	0.00146	U	0.0785	U
	9/5/2014	**0.139**		**0.587**		**0.0174**	J	**0.0865**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/4/2015	**0.0496**	J	**0.262**	F	0.00778	JF	**0.0339**	J	0.00293	U	0.0505	U	0.00283	U	0.00242	U	0.00434	U	0.00354	U	0.00465	U	0.00455	U	0.00374	U	0.00707	UF	0.00495	U	0.0291	U	0.00869	U	0.00182	U	0.00222	U	0.00455	U	0.428	U
MW-16	4/10/2003	**11.400**		**0.9**		**0.9**		**2.3**		0.1	U	0.1	U	0.1	U	0.5	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	NM		NM		NM		2.0	U
	4/16/2008	0.010	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	0.051	U	0.051	U	0.51	U
	8/5/2009	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.101	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
	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.076	U	0.0722	U	0.0742	U	0.0722	U	0.13200	U	0.105	U	0.08560	U	0.08140	U	0.00464	U	0.0835	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
	3/26/2014	0.031	U	0.0235	U	0.0133	U	0.0489	U	0.05560	U	0.0326	U	0.01440	U	0.01000	U	0.01510	U	0.0604	U	0.01460	U	0.01770	U	0.03010	U	0.01160	U	0.34700	U	0.0178	U	0.03440	U	0.04890	U	0.03290	U	0.01430	U	0.769	U
	9/3/2014	0.0101	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/3/2015	0.0100	U	0.00228	UF	0.00198	UF	0.00158	U	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	UF	0.00257	U	0.0285	U	0.00851	UF	0.00178	U	0.00218	U	0.00446	U	0.419	U
MW-17	4/16/2008	0.010	U	**0.25**		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	0.051	U	0.51	U
	8/4/2009	**0.017**	J	**0.37**		**0.36**		**0.011**	J	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
	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	**0.010**	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	0.0097	U	0.0049	U	0.0049	U	0.0097	U	0.97	U
	3/26/2013	0.002	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	0.002	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	0.010	U	**0.39**		**0.0162**	J	**0.00748**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.077	U	**0.264**		0.0746	U	0.0725	U	0.13300	U	0.106	U	0.08600	U	0.08190	U	0.00466	U	0.0839	U	0.11700	U	0.09330	U	0.08600	U	0.10100	U	0.11600	U	0.109	U	0.08390	U	0.07250	U	0.08390	U	0.07460	U	0.0518	U
	3/27/2014	0.031	U	**0.159**		0.0133	U	0.0171	U	0.05560	U	0.0326	U	0.01440	U	0.01000	U	0.01510	U	0.0604	U	0.01460	U	0.01770	U	0.03010	U	0.01160	U	0.34700	U	0.0178	U	0.03440	U	0.04890	U	0.03290	U	0.01430	U	0.769	U
	9/2/2014	0.010	U	**0.218**		**0.0105**	J	**0.00287**	J	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/3/2015	0.010	U	**0.357**	F	**0.0849**	F	**0.006**	J	0.00290	U	0.0026	U	0.00280	U	0.00430	U	0.00430	U	0.0035	U	0.00446	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U

Table 6-3: Groundwater Pesticides Data Summary

	Test 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	
Site-Specific RRS Values		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**	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag
MW-18	8/6/2009	0.051	U	**0.375**		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	0.505	U	0.101	U	0.051	U	0.051	U	0.051	U	0.101	U	5.05	U
	7/15/2011	0.050	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	**0.025**	J	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
	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	0.002	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	0.010	U	**0.409**	J	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	**0.00680**	J	0.0035	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	0.076	U	**0.463**		0.0742	U	0.0722	U	0.13200	U	0.105	U	0.08560	U	0.08140	U	0.00464	U	0.0835	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
	3/26/2014	0.030	U	**0.356**		0.0127	U	0.0164	U	0.05350	U	0.0313	U	0.01380	U	0.00963	U	0.01450	U	0.0581	U	0.01400	U	0.01700	U	0.02890	U	0.01120	U	0.33300	U	0.0171	U	0.03310	U	0.04700	U	0.48100	U	0.01370	U	0.74	U
	9/4/2014	0.010	U	**0.102**		0.00198	U	**0.00327**	J	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.004260	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	UX	0.00218	U	0.00446	U	0.419	U
	3/4/2015	0.010	U	**0.111**	F	0.00198	U	0.00158	U	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.004260	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	UF	0.00485	U	0.0285	U	0.00851	UF	0.00178	U	0.00218	U	0.00446	U	0.419	U
MW-19	8/6/2009	**0.009**	J	**0.113**		0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	**0.012**	J	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
	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.076	U	0.0718	U	0.0738	U	0.0718	U	0.13100	U	0.105	U	0.08510	U	0.08100	U	0.00462	U	0.0831	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
	3/27/2014	0.003	U	**0.074**		0.0013	U	**0.0109**		0.00545	U	0.0032	U	0.00141	U	0.00098	U	0.00148	U	0.00592	U	0.00143	U	0.00174	U	0.00295	U	0.00114	U	0.03400	U	0.00175	U	0.00337	U	0.00480	U	0.00323	U	0.00140	U	0.0754	U
	9/4/2014	0.010	U	**0.0762**		**0.00515**	J	**0.00891**	J	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.004260	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	..00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/4/2015	0.010	U	**0.0288**	JF	**0.0175**	JF	0.00784	J	0.00291	U	0.00261	U	0.00281	U	0.00241	U	0.004320	U	0.00352	U	0.00462	U	0.00452	U	0.00372	U	0.00704	UF	0.00492	U	0.0289	U	0.00864	UF	0.00181	U	0.00221	U	0.00452	U	0.425	U
MW-20	8/6/2009	**2.500**	U	**25.7**		**2.5**	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	5.00	U	5	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00	U	25	U	5.00	U	2.5	U	2.5	U	5.00	U	250	U
	7/12/2011	**0.460**	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	0.005	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	0.010	U	**2.21**	D	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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**		**0.148**	U	0.144	U	0.26400	U	0.21	U	0.17100	U	0.16300	U	**0.01880**	J	0.167	U	0.23300	U	0.18600	U	0.17100	U	0.20000	U	0.23100	U	0.216	U	0.16700	U	0.14400	U	0.16700	U	0.14800	U	0.103	U
	3/27/2014	0.031	U	**2.64**		**0.0229**		0.0169	U	0.05510	U	0.0323	U	0.01420	U	0.00991	U	0.01500	U	0.0598	U	0.01440	U	0.01750	U	0.02980	U	0.01150	U	0.34300	U	0.0176	U	0.03410	U	0.04840	U	0.03260	U	0.01410	U	0.762	U
	9/3/2014	**0.0803**		**12.4**	D	**0.469**		**0.074**		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.004260	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/5/2015	**0.0106**	J	**4.71**	DF	**0.0521**	F	**0.0171**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
MW-21	8/6/2009	**0.576**		**7.46**		**0.5**	U	**0.35**	J	0.5	U	0.5	U	0.5	U	0.5	U	1.0	U	1	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	1.00	U	0.5	U	0.5	U	1.00	U	50	U
	7/12/2011	**0.210**	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	0.115	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	1.15	U	0.23	U	0.115	U	0.115	U	0.23	U	11.5	U
	11/21/2012	**0.130**		**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	0.002	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	0.002	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	0.010	U	**0.286**		0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.076	U	**2.53**		0.0742	U	0.0722	U	0.13200	U	0.105	U	0.08560	U	0.08140	U	0.00464	U	0.0835	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
	3/27/2014	0.031	U	**0.856**		0.0133	U	0.0171	U	0.05560	U	0.0326	U	0.01440	U	0.01000	U	0.01510	U	0.0604	U	0.01460	U	0.01770	U	0.03010	U	0.01160	U	0.34700	U	0.0178	U	0.03440	U	0.04890	U	0.03290	U	0.01430	U	0.769	U
	9/5/2014	**0.359**		**5.52**	D	**0.574**		**0.280**		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/5/2015	**0.081**		**3.44**	DF	**0.283**	F	**0.088**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	**0.02090**	J	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
MW-22	4/5/2012	**1.520**	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	**1.300**	*	**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	**1.090**		**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	**1.100**	D	**33.7**	DX	**0.725**		**0.382**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	**0.0521**	J	0.0035	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**		**0.489**		0.2610	U	0.208	U	0.1690	U	0.1610	U	**0.03040**	J	0.165	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
	3/27/2014	**0.284**		**14.3**		**0.212**		**0.166**		0.0535	U	0.0313	U	0.0138	U	0.0096	U	0.01450	U	0.0581	U	0.0140	U	0.0170	U	0.0289	U	0.0112	U	0.3330	U	0.0171	U	0.0331	U	0.0470	U	0.0317	U	0.0137	U	0.7400	
	9/5/2014*[4]	**1.01**	D	**37.098**	D	**22.4**	D	**0.365**		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/6/2015	**0.48**		**21.6**	DF	**9.53**	DF	**0.204**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
MW-23	9/5/2014	**0.0227**	J	**5.17**	D	**0.0174**	J	**0.0517**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/5/2015	**0.0189**	J	**4.63**	DF	**0.0316**	JF	**0.0528**		0.00290	U	0.0026	U	0.00290	U	0.00430	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00460	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
MW-24	3/3/2015	0.0101	U	**0.0041**	JF	0.002	UF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U

Sources: Analytical results from March 2013 to March 2015 are from samples directly collected by EIC. Historical data prior to March 2013 from CH2MHill 2008, 2009, and 2012 Groundwater Reports and Law Engineering 2001-2003 Compliance Status Reports and Addendums

Notes:

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 limit.
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 laboratory QC deficiency was observed in quality control review of data
F = Relative percent difference exceeded lab control limits

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 correlation.
*[4] = Result for beta-BHC was adjusted based on tubing rinsate sample, see Xenco lab report number 492804

Table 6-4: Historical Groundwater Potentiometric Surface Elevation Table

Well ID # (Well Diameter, in.)	Current TOC Elevation (ft.)	Groundwater Potentiometric Surface Elevation (ft.)														MW Min.*	MW Max.*	MW Range*	MW Avg.*	MW Var.*
		Aug-99	Sep-01	Apr-02	Apr-08	Aug-09	Jul-11	Apr-12	Mar-13	Jun-13	Sep-13	Dec-13	Mar-14	Sep-14	Mar-15					
MW-1 (2)	105.22	NM	NM	NM	79.59	78.22	76.32	77.48	79.63	78.07	79.60	78.00	78.77	77.51	79.11	76.32	79.63	3.31	78.39	1.13
MW-1A (2)	105.33	76.54	77.22	77.38	79.57	78.47	76.33	77.48	79.62	78.06	79.58	77.97	79.88	77.50	79.11	76.33	79.88	3.55	78.19	1.42
MW-2 (2)	98.86	76.48	77.13	77.36	79.45	78.16	78.25	NM	79.54	77.97	79.41	77.89	79.83	77.39	78.98	76.48	79.83	3.35	78.30	1.13
MW-3 (2)	97.12	76.42	77.11	77.39	NL	NL	NL	NL	NL	NL	79.20	77.78	79.69	77.28	78.95	76.42	79.69	3.27	77.98	1.35
MW-4U (2)	103.51	NI	77.12	77.3	79.64	78.36	NM	77.51	79.60	78.16	79.59	77.98	79.81	77.55	78.99	77.12	79.81	2.69	78.47	1.02
MW-5A (2)	96.67	NI	NM	NM	78.96	77.91	76.35	77.32	79.12	77.71	79.07	77.71	79.38	77.24	78.94	76.35	79.38	3.03	78.16	0.98
MW-5D (2)	96.12	NI	77.1	77.36	78.40	77.92	76.37	77.36	79.16	77.77	79.10	77.76	79.36	77.31	78.94	76.37	79.36	2.99	77.99	0.86
MW-6 (2)	102.25	NI	77.17	77.7	79.24	78.70	76.40	77.46	79.53	77.87	79.25	77.81	79.59	77.39	78.96	76.40	79.59	3.19	78.24	1.06
MW-7 (2)	98.10	NI	77.09	77.49	79.74	78.50	DRY	77.56	79.67	78.11	79.75	78.19	80.01	77.58	79.41	77.09	80.01	2.92	78.59	1.13
MW-8 (2)	93.54	NI	76.6	77.4	78.75	77.79	76.34	77.25	78.64	77.52	78.88	77.69	79.20	77.22	78.90	76.34	79.20	2.86	77.86	0.86
MW-9 (2)	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NA	NA	NA	NA	NA
MW-10 (2)	99.83	NI	NI	77.45	79.75	78.52	76.33	77.58	79.72	78.10	79.76	78.12	80.07	77.58	79.08	76.33	80.07	3.74	78.51	1.39
MW-11 (2)	100.87	NI	NI	77.46	79.88	76.67	79.57	77.6	79.83	78.16	79.83	78.1	80.1	77.58	79.50	76.67	80.10	3.43	78.69	1.46
MW-12 (2)	94.06	NI	NI	77.35	78.23	77.39	76.25	76.88	78.39	77.06	78.14	77.36	78.51	76.80	78.66	76.25	78.66	2.41	77.59	0.61
MW-13 (2)	93.55	NI	NI	77.38	78.10	77.13	DRY	DRY	78.53	76.98	77.87	76.98	78.31	76.58	78.47	76.58	78.53	1.95	77.63	0.50
MW-14 (2)	102.11	NI	NI	NI	79.30	78.16	76.36	77.45	78.72	76.72	78.97	77.95	78.59	76.86	79.11	76.36	79.30	2.94	78.02	1.07
MW-15 (2)	98.13	NI	NI	NI	78.88	78.01	DRY	77.40	79.24	78.10	79.18	78.10	79.35	77.37	78.93	77.37	79.35	1.98	78.46	0.57
MW-16 (2)	97.15	NI	NI	NI	79.66	78.50	76.45	77.56	79.73	78.18	79.91	78.12	79.99	77.71	79.22	76.45	79.99	3.54	78.64	1.33
MW-17 (2)	93.65	NI	NI	NI	79.03	77.90	76.24	75.26	79.17	77.58	79.04	77.80	79.30	77.25	79.12	75.26	79.30	4.04	77.97	1.78
MW-18 (2)	95.56	NI	NI	NI	NI	78.15	76.43	77.42	79.39	77.91	79.42	77.92	79.56	77.43	79.02	76.43	79.56	3.13	78.27	1.10
MW-19 (2)	96.60	NI	NI	NI	NI	78.07	76.35	77.35	79.40	77.80	79.47	77.89	79.68	77.39	79.06	76.35	79.68	3.33	78.25	1.23
MW-20 (2)	96.57	NI	NI	NI	NI	78.48	76.38	77.49	79.68	78.08	79.73	78.08	79.93	77.57	79.29	76.38	79.93	3.55	78.47	1.37
MW-21 (2)	97.55	NI	NI	NI	NI	78.41	76.34	77.53	79.71	78.05	79.79	78.08	79.98	77.53	79.36	76.34	79.98	3.64	78.48	1.44
MW-22 (2)	98.88	NI	NI	NI	NI	NI	NM	77.47	79.74	78.10	79.75	78.12	79.96	77.57	79.28	77.47	79.96	2.49	78.75	1.08
MW-23 (2)	93.61	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	77.03	78.73	77.03	78.73	1.70	77.88	1.45
MW-24 (2)	93.07	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	78.72	NA	NA	NA	NA	NA
Event Min.*[2]		76.42	76.60	77.30	78.10	76.67	76.24	75.26	78.39	76.72	77.87	76.98	78.31	76.58	78.47	**Global Min.*[3]**		75.26		
Event Max.*[2]		76.54	77.22	77.70	79.88	78.70	79.57	77.60	79.83	78.18	79.91	78.19	80.10	77.71	79.50	**Global Max.*[3]**		80.10		
Event Range*[2]		0.12	0.62	0.40	1.78	2.03	3.33	2.34	1.44	1.46	2.04	1.21	1.79	1.13	1.03	**Global Range*[3]**		4.84		
Event Avg.*[2]		76.48	77.07	77.42	79.19	78.07	76.65	77.32	79.35	77.82	79.32	77.89	79.52	77.34	79.03	**Global Avg.*[3]**		78.03		
Event Var.*[2]		0.00	0.04	0.01	0.31	0.25	0.78	0.26	0.19	0.17	0.27	0.08	0.28	0.08	0.06	**Global Var.*[3]**		1.12		

Notes:

NI - Not Installed

NL - Not Located

NA - Not Applicable

*** = Event Min, Max, Range, Avg., and Var.** - are the minimum, maximum, range, average, and total variance for each respective groundwater gauging event.

***[2] = MW Min., Max., Range, Avg., and Var.** - are the minimum, maximum, range, average, and total variance for each monitoring well throughout all gauging events from March 203 to March 2015 where available.

***[3]= Global Min., Max., Range, Avg., and Var.** - are the minimum, maximum, range, average, and total variance for all monitoring wells throughout all events from March 2013 to March 2015

Groundwater elevations prior to March 2013 are derived from historical groundwater monitoring reports by previous consultants

Top of casing (TOC) elevations are based on the most recent survey by Donaldson Garrett and Associates in April 2015

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

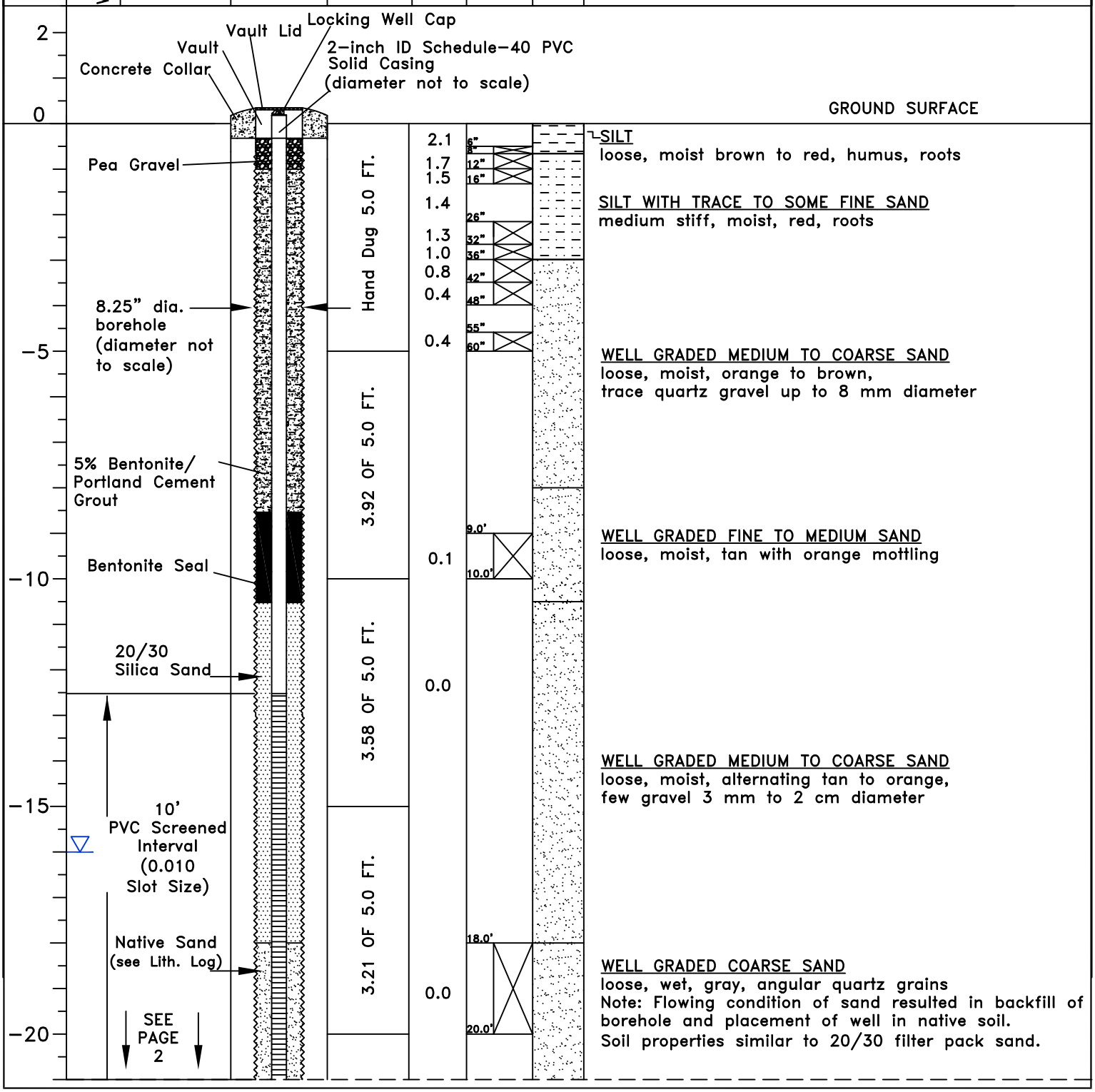
FIFTH VIRP SEMI-ANNUAL PROGRESS REPORT

FIGURES

FIGURE 3-1: MONITORING WELL MW-24

ENVIRONMENTAL INT'L CORP.
161 KIMBALL BRIDGE ROAD
ALPHARETTA, GEORGIA, 30009 USA
PHONE: 770-772-7100
FAX: 770-772-0555
http://www.eicusa.com

WELL ID MW-24	DRILLING COMPANY EM SERVICES
PROJECT GPA BAINBRIDGE TERMINAL	DATE INSTALLED 12/03/2014
LOCATION BAINBRIDGE GA	SURFACE ELEVATION 92.90 FT. NAVD 88
PROJECT NUMBER 400007-4.2	TOTAL BORING DEPTH 24.00 FT. BGS
GEOLOGIST ALAN SANDERS	TOP OF BEDROCK N/A
DRILL METHOD 6620DT GEOPROBE WITH HOLLOW STEM AUGER	INITIAL WATER LEVEL ~ 16.0 FT. BGS

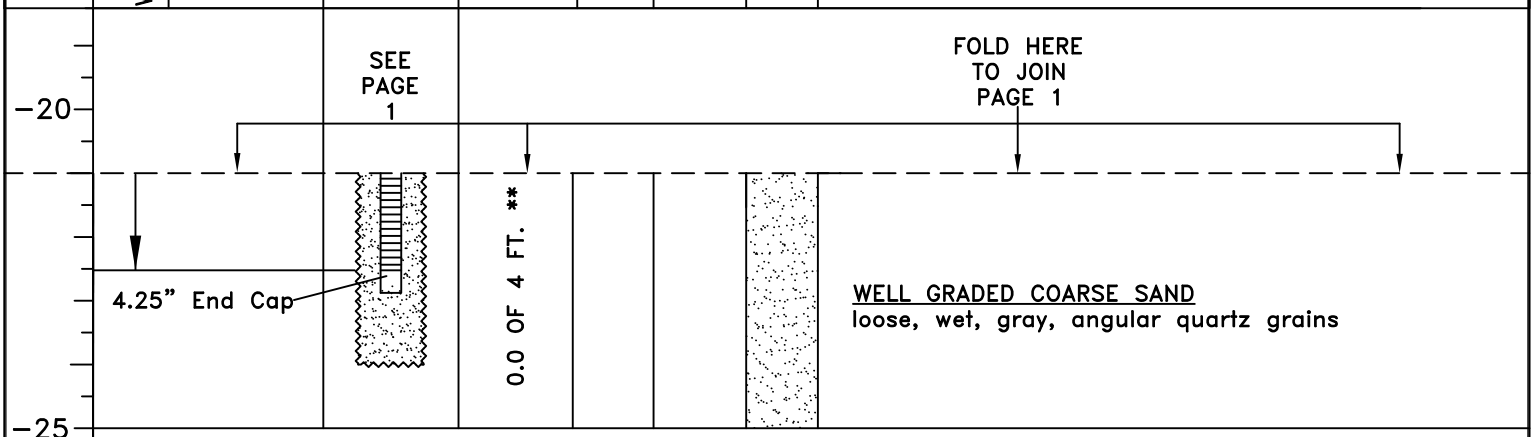


ENVIRONMENTAL INT'L CORP.
161 KIMBALL BRIDGE ROAD
ALPHARETTA, GEORGIA, 30009 USA
PHONE: 770-772-7100
FAX: 770-772-0555
http://www.eicusa.com

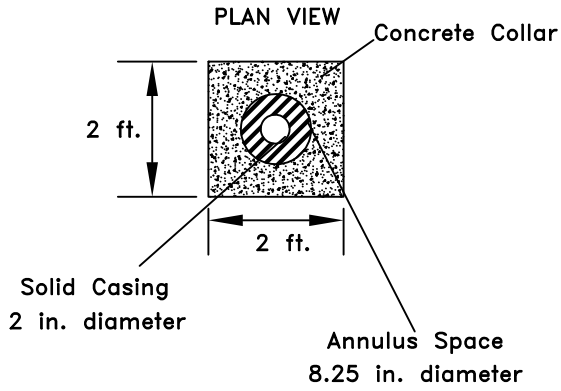
FIGURE 3-1: MONITORING WELL MW-24

WELL ID MW-24	DRILLING COMPANY EM SERVICES
PROJECT GPA BAINBRIDGE TERMINAL	DATE INSTALLED 12/03/2014
LOCATION BAINBRIDGE GA	SURFACE ELEVATION 92.90 FT. NAVD 88
PROJECT NUMBER 400007-4.2	TOTAL BORING DEPTH 24.00 FT. BGS
GEOLOGIST ALAN SANDERS	TOP OF BEDROCK N/A
DRILL METHOD 6620DT GEOPROBE WITH HOLLOW STEM AUGER	INITIAL WATER LEVEL ~ 16.0 FT. BGS

DEPTH (ft bgs) | INITIAL WATER LVL. | WELL CONST. DIAGRAM | RECOVERY LENGTH | PID (ppm) | SAMPLE INTERVAL | LITH. LOG | DESCRIPTION & REMARKS



Notes:
* = PID values were recorded as soil samples were removed from sampling tube and no PID values were observed obove background readings. Background readings decreased from 2.1 to 0.0 ppm over the course of sampling.
** = Drilling crew was unable to retrieve a soil core within the 20 to 24 foot core interval as flowing sand conditions filled the boring. Soil was characterized within this interval and samples were collected from the auger.



-30
-35
-40

RSW Island N*

SB-01	0'-0.5'
alpha-BHC	0.0126
beta-BHC	0.0286
delta-BHC	0.00304J
gamma-BHC	0.0023J

WH3 S3	0'-2'	3'-5'
alpha-BHC	**0.478**	< 0.000215
beta-BHC	**0.612**	**0.00759**
delta-BHC	**0.00511**	< 0.000184
gamma-BHC	**0.0152**	< 0.000221

SB-02	0'-0.5'
alpha-BHC	**0.016J**
beta-BHC	**0.11J**
delta-BHC	<0.0186
gamma-BHC	<0.0165

WH3 N3	0'-2'	3'-5'
alpha-BHC	**0.00343**	< 0.000153
beta-BHC	**0.140**	**0.00959**
delta-BHC	**0.00276**	< 0.000131
gamma-BHC	**0.00265**	< 0.000157

WH3 N2	0'-2'	3'-5'
alpha-BHC	< 0.000161	< 0.000154
beta-BHC	**0.00641**	< 0.000201
delta-BHC	< 0.000138	< 0.000132
gamma-BHC	< 0.000166	< 0.000158

WH3 S2	0'-2'	3'-5'
alpha-BHC	< 0.00016	< 0.000151
beta-BHC	**0.0722**	< 0.000197
delta-BHC	< 0.000137	< 0.000129
gamma-BHC	< 0.000164	< 0.000155

WH3 S4	0'-2'	3'-5'
alpha-BHC	**0.00136 J**	< 0.000159
beta-BHC	**0.00626**	**0.00154 J**
delta-BHC	< 0.000138	< 0.000136
gamma-BHC	< 0.000165	< 0.000164

WH3 N4*

NW-SB-12	0'-2'	3'-5'
alpha-BHC	**52.1**	**0.182**
beta-BHC	**8.62J**	**0.114**
delta-BHC	**4.33J**	0.0455
gamma-BHC	**9.43**	**0.0324**

WH3 E1

WH3 E1	0'-2'	3'-5'
alpha-BHC	**0.000221J**	<0.0000926
beta-BHC	**0.000800J**	**0.000259J**
delta-BHC	<0.000204	<0.000206
gamma-BHC	<0.0000978	<0.0000987

RSW Island S	0'-2'	3'-5'
alpha-BHC	**0.00183 J**	**0.503**
beta-BHC	**0.00757**	**0.186**
delta-BHC	< 0.000138	0.0536
gamma-BHC	< 0.000166	**0.0636**

NW-SB-11	0'-2'	3'-5'
alpha-BHC	**0.192**	< 0.0112
beta-BHC	**7.19**	< 0.0242
delta-BHC	0.0369J	< 0.0149
gamma-BHC	**0.0967**	< 0.0132

WH3 E2

WH3 E2	0'-2'	3'-5'
alpha-BHC	**0.00241**	<0.0000942
beta-BHC	**0.0151**	**0.000321J**
delta-BHC	**0.00851J**	<0.000209
gamma-BHC	**0.00112J**	<0.000100

WH3 N1	0'-2'	3'-5'
alpha-BHC	< 0.000164	< 0.000156
beta-BHC	**0.0477**	< 0.000205
delta-BHC	0.0112	< 0.000134
gamma-BHC	< 0.000169	< 0.000161

NW-SB-10	0'-2'	3'-5'
alpha-BHC	**1.69**	**0.166J**
beta-BHC	**10.7**	**4.83**
delta-BHC	**1.67**	**0.136J**
gamma-BHC	0.429J	**0.0663J**

WH3 E3

WH3 S1	0'-2'	3'-5'
alpha-BHC	**0.0047**	< 0.000155
beta-BHC	0.732	< 0.000203
delta-BHC	**0.00417**	< 0.000133
gamma-BHC	< 0.000168	< 0.000160

NW-SB-01	0'-2'	3'-5'
alpha-BHC	**3.26**	**0.00258J**
beta-BHC	2.72	**0.0696**
delta-BHC	0.0235J	< 0.00336
gamma-BHC	**0.0888**	< 0.00298

NW-SB-09	0'-2'	3'-5'
alpha-BHC	**23.9**	**0.261**
beta-BHC	**4.06J**	**0.348**
delta-BHC	**0.374J**	0.0587
gamma-BHC	0.761J	**0.152**

WH3 E3	0'-2'	3'-5'
alpha-BHC	**0.00288**	<0.0000937
beta-BHC	**0.0199**	<0.000186
delta-BHC	**0.00160J**	<0.000208
gamma-BHC	**0.00211**	<0.0001000

W.H.3

NW-SB-02	0'-2'	3'-5'
alpha-BHC	**0.0143J**	**0.0199J**
beta-BHC	< 0.0058	**0.00907J**
delta-BHC	< 0.00356	**0.00354**
gamma-BHC	< 0.00316	**0.00476J**

MW-14

MW-6

NW-SB-03	0'-2'	3'-5'
alpha-BHC	**16.1**	**0.127**
beta-BHC	**7.54**	**0.0593**
delta-BHC	< 0.183	0.0372
gamma-BHC	**0.533J**	**0.083**

WH3 E4

WH3 E4	0'-2'	3'-5'
alpha-BHC	**0.00134J**	<0.000109
beta-BHC	**0.00852**	**0.000611J**
delta-BHC	**0.000565J**	<0.000243
gamma-BHC	**0.00191J**	<0.000117

NW-SB-04	0'-2'	3'-5'
alpha-BHC	**0.568**	**0.233**
beta-BHC	**0.312**	**0.0269J**
delta-BHC	**0.112**	**0.106**
gamma-BHC	**0.365**	**0.389**

NW-SB-07	0'-2'	3'-5'
alpha-BHC	< 0.0106	< 0.0106
beta-BHC	< 0.0229	< 0.023
delta-BHC	< 0.0141	< 0.0141
gamma-BHC	< 0.0125	< 0.0125

NW-SB-08	0'-2'	3'-5'
alpha-BHC	< 0.0544	**0.0237**
beta-BHC	**5.28**	0.0804
delta-BHC	< 0.0725	< 0.00359
gamma-BHC	< 0.0643	**0.00341J**

NW-SB-06	0'-2'	3'-5'
alpha-BHC	**7.7**	**0.0846**
beta-BHC	**6.24**	**0.017J**
delta-BHC	**0.164J**	< 0.00359
gamma-BHC	1.27	**0.0628**

NW-SB-05	0'-2'	3'-5'
alpha-BHC	**6170**	**0.209**
beta-BHC	**815**	**0.161**
delta-BHC	**74.9**	**0.577**
gamma-BHC	**1430**	0.884

AOC 2

AOC 3

W.H.2

OFFICE

LEGEND:

- GPA PROPERTY LINE
- R.S.W. — ROCK SALT WAREHOUSE
- W.H.3 — WAREHOUSE 3
- AOC–2
- AOC–3
- EIC SOIL BORINGS, JUNE 2013
- PRE–VIRP SOIL BORINGS
- EIC SOIL BORINGS, DECEMBER 2014

NOTE: ALL CONCENTRATIONS REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg). VALUES IN BOLD INDICATE RESULTS ABOVE DETECTION LIMITS. ALL DECEMBER 2014 SOIL BORING LOCATIONS HAD SAMPLES TAKEN AT 0–2' and 3–5'.

* = SAMPLES NOT ANALYZED

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

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. Post–VIRP June 2013 sample locations based on survey by Donaldson Garret & Associates on 6/5/2013. **December 2014 soil sample locations were estimated based on field measurements by EIC.**

N

20 0 20 40 60 80

GRAPHICAL SCALE IN FEET (APPROXIMATE)

FIGURE 4–1: LOCATION OF SOIL BORINGS AND SOIL SAMPLE RESULTS IN AOC–2

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

SEAL:

NO.	DATE

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	12/22/14	400007–4.2 – GPA BAINBRIDGE	



Legend

- MONITORING WELL
- STILLING WELL
- MW-18 MONITORING WELL ID
- N.L. NOT LOCATED

SITE FEATURES

- BULKHEAD
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.
WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400

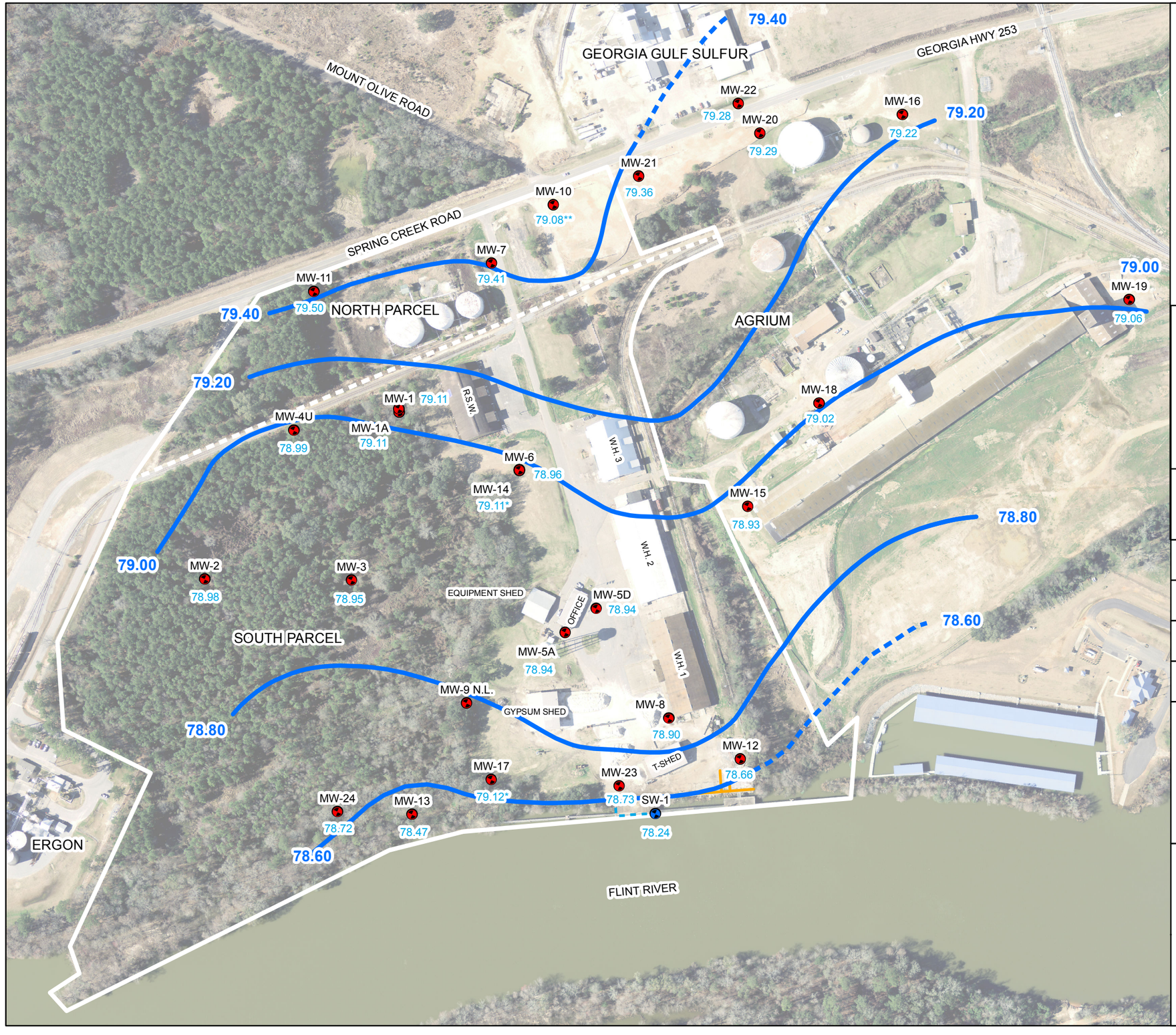
Feet

DESIGNED BY: W.G.	REVISIONS NO.	REVISIONS DATE	DATE: 4/17/2015
DRAWN BY: W.G.			SCALE: SEE BAR SCALE
			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 6-1: SITE MAP

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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



Legend

MONITORING WELL

STILLING WELL

MW-18 MONITORING WELL ID

N.L. NOT LOCATED

SITE FEATURES

BULKHEAD

NORTH AND SOUTH PARCEL DIVISION

BAINBRIDGE PARCEL LINES

PIER

GROUNDWATER CONTOURS

CONTOUR (0.2 FT.)

ESTIMATED CONTOUR

78.40 GROUNDWATER CONTOUR ELEVATION (FT., NAVD 88)

78.94 GROUNDWATER ELEVATION (FT., NAVD 88)

* GROUNDWATER ELEVATION NOT CONSIDERED AS WELL IS SCREENED GREATER THAN 50 FEET BELOW GROUND SURFACE

** GROUNDWATER ELEVATION NOT CONSIDERED DUE TO ANOMALY

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.
WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400

Feet

DESIGNED BY: W.G.	REVISIONS NO.	REVISIONS DATE	DATE: 4/22/2015
DRAWN BY: W.G.			SCALE: SEE BAR SCALE
			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 6-2: MARCH 2015 GROUNDWATER POTENTIOMETRIC SURFACE MAP

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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



Legend

MONITORING WELL
STILLING WELL
MW-18 MONITORING WELL ID
N.L. NOT LOCATED

SITE FEATURES

BULKHEAD
NORTH AND SOUTH PARCEL DIVISION
BAINBRIDGE PARCEL LINES
PIER

ALPHA-BHC CONCENTRATIONS CONTOURS

DELINIATION CRITERION OF 0.1 µg/L
RRS TYPE 4 OF 0.5 µg/L

CONCENTRATIONS

<0.160 CONCENTRATION IN µg/L
<0.0101* CONCENTRATION NOT CONSIDERED IN CONTOURS FOR DEEP WELLS (SCREENED BELOW 50 FT BGS)
J CONCENTRATION BELOW QUANTITATION LIMIT AND ABOVE DETECTION LIMIT
K SAMPLE ANALYZED 23 HOURS AFTER RECOMMENDED HOLD TIME

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.
WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400 Feet

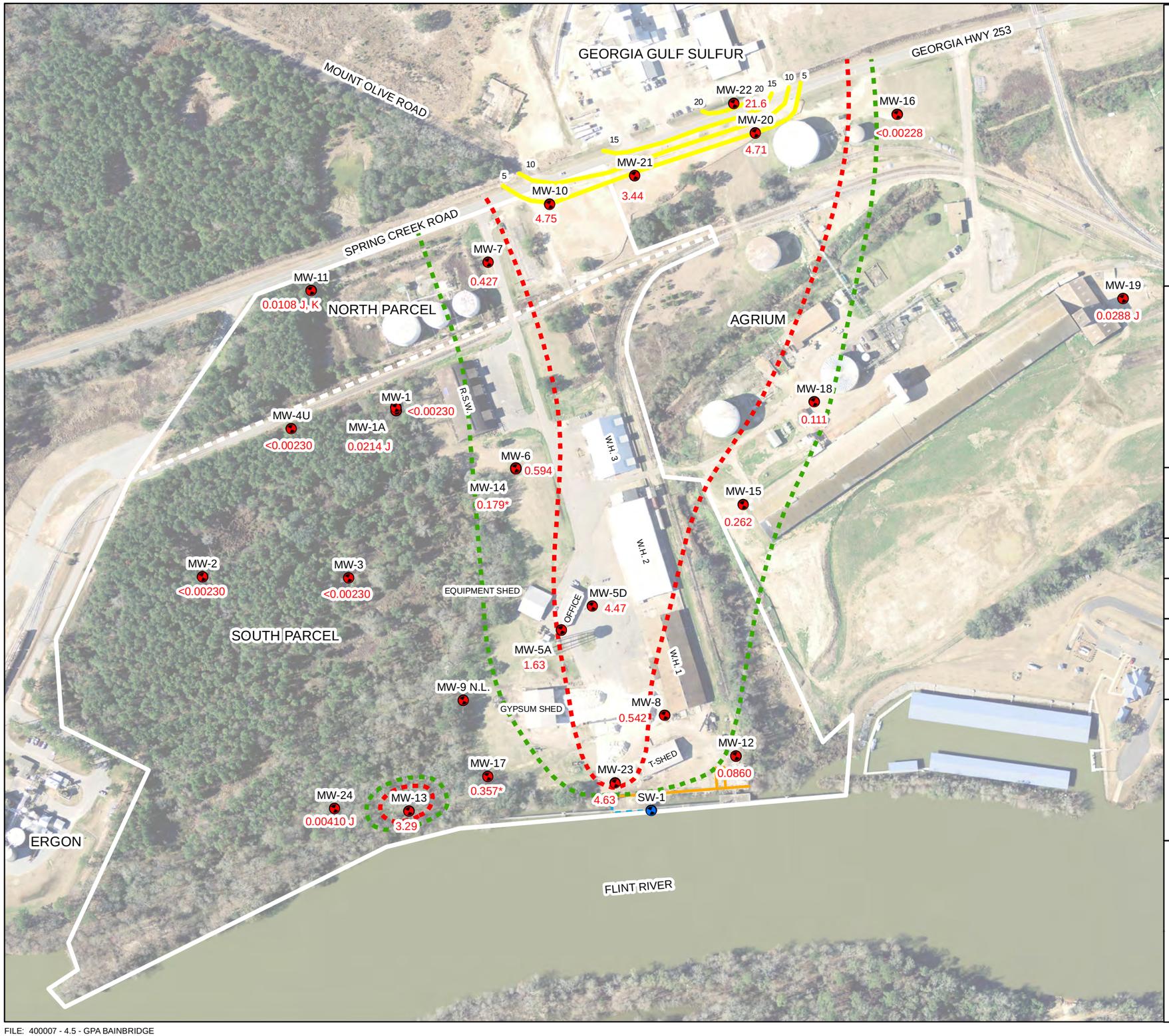
DESIGNED BY: W.G.	REVISIONS NO.	REVISIONS DATE	DATE: 4/16/2015
DRAWN BY: S.F.H.			SCALE: SEE BAR SCALE
			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 6-3: MARCH 2015 ALPHA-BHC ISOCONCENTRATION MAP

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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

FILE: 400007 - 4.5 - GPA BAINBRIDGE



Legend

- MONITORING WELL
- STILLING WELL
- MW-18 — MONITORING WELL ID
- N.L. — NOT LOCATED

SITE FEATURES

- BULKHEAD
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER

BETA-BHC CONCENTRATIONS

CONTOURS

- DELINIATION CRITERION OF 0.1 µg/L
- RRS TYPE 4 OF 1.6 µg/L
- BETA BHC CONTOURS (5 µg/L INTERVAL)

CONCENTRATIONS

- 0.542 — CONCENTRATION IN µg/L
- 0.179* — CONCENTRATION NOT CONSIDERED IN CONTOURS FOR DEEP WELLS (SCREENED BELOW 50 FT BGS)
- J — CONCENTRATION BELOW QUANTITATION LIMIT AND ABOVE DETECTION LIMIT
- K — SAMPLE ANALYZED 23 HOURS AFTER RECOMMENDED HOLD TIME

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.
WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400 Feet

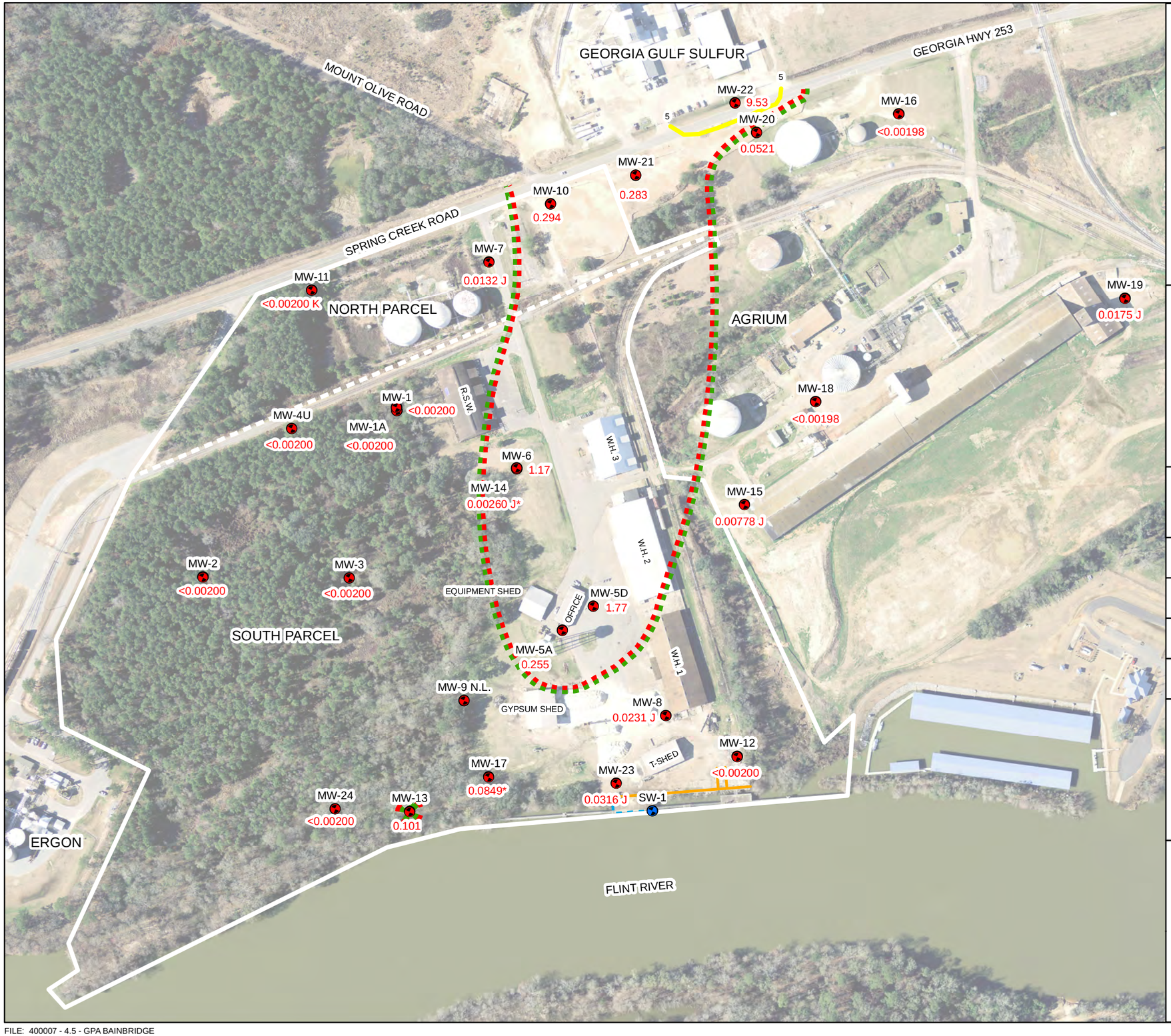
DESIGNED BY: W.G.	REVISIONS NO.	REVISIONS DATE	DATE: 4/16/2015
DRAWN BY: S.F.H.			SCALE: SEE BAR SCALE
CHECKED BY: A.S.			SHEET NO.: 1 OF 1
APPROVED BY: R.M.			

FIGURE 6-4: MARCH 2015 BETA-BHC ISOCONCENTRATION MAP

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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

FILE: 400007 - 4.5 - GPA BAINBRIDGE



Legend

MONITORING WELL

STILLING WELL

MW-18 MONITORING WELL ID

N.L. NOT LOCATED

SITE FEATURES

BULKHEAD

NORTH AND SOUTH PARCEL DIVISION

BAINBRIDGE PARCEL LINES

PIER

DELTA-BHC CONCENTRATIONS

CONTOURS

DELINIATION CRITERION OF 0.1 µg/L

RRS TYPE 4 OF 0.1 µg/L

DELTA BHC CONTOURS (5 µg/L INTERVAL)

CONCENTRATIONS

1.17 CONCENTRATION IN µg/L

0.0849* CONCENTRATION NOT CONSIDERED IN CONTOURS FOR DEEP WELLS (SCREENED BELOW 50 FT BGS)

J CONCENTRATION BELOW QUANTITATION LIMIT AND ABOVE DETECTION LIMIT

K SAMPLE ANALYZED 23 HOURS AFTER RECOMMENDED HOLD TIME

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY. WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400

Feet

DESIGNED BY: W.G.	REVISIONS NO.	REVISIONS DATE	DATE: 4/16/2015
DRAWN BY: S.F.H.			SCALE: SEE BAR SCALE
			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 6-5: MARCH 2015 DELTA-BHC ISOCONCENTRATION MAP

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

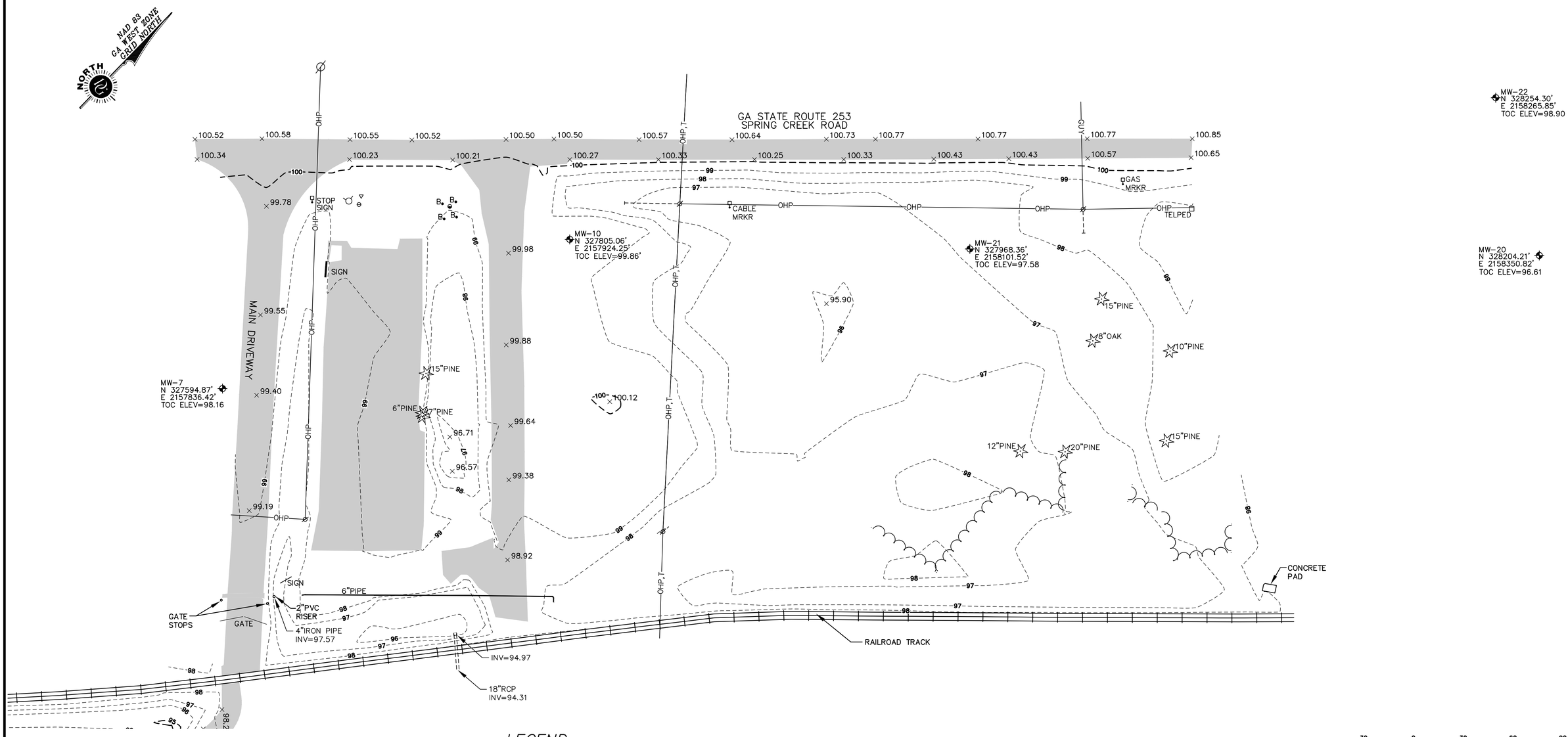
ENVIRONMENTAL INTERNATIONAL CORP.
161 KIMBALL BRIDGE RD.
ALPHARETTA, GEORGIA 30009

FILE: 400007 - 4.5 - GPA BAINBRIDGE

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

FIFTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT A1 DECEMBER 2014 SURVEY REPORT



NOTES

1. DONALDSON, GARRETT AND ASSOCIATES, INC. AND THE LAND SURVEYOR WHOSE SEAL IS AFFIXED HEREON DO NOT GUARANTEE THAT ALL EASEMENTS WHICH MAY AFFECT THIS PROPERTY ARE SHOWN.
2. THIS DRAWING HAS BEEN GENERATED ELECTRONICALLY. THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT UNLESS IT HAS BEEN PROPERLY SEALED AND ORIGINALLY SIGNED BY A REGISTERED LAND SURVEYOR OF DONALDSON, GARRETT AND ASSOCIATES, INC. AUTHORITY OF O.C.G.A. 43-15-22.
3. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. UNDERGROUND UTILITIES NOT OBSERVED OR LOCATED MAY EXIST BUT MAY NOT BE SHOWN, AND MAY BE FOUND UPON EXCAVATION. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. INFORMATION REGARDING MATERIAL AND SIZE OF UTILITIES IS BASED ON RECORDS ACQUIRED FROM THE UTILITY OWNERS. VERIFICATION OF THE UTILITIES SHOULD BE MADE PRIOR TO ANY CONSTRUCTION.
4. ELEVATIONS SHOWN ARE BASED ON MEAN SEA LEVEL DATUM, NAVD88, AND WERE DERIVED FROM GPS OBSERVATIONS USING A LEICA SYSTEM 1200 GPS RECEIVER.

LEGEND

CONTOUR LINE	100
OVERHEAD POWER LINE	OHP
OVERHEAD TELEPHONE LINE	OHT
TELEPHONE PEDESTAL	TELPED
POWER POLE W/GUY	
MONITORING WELL	MW-10
TOP OF CASING	TOC
BOLLARD	
SIGN	
FIRE HYDRANT	
WATER VALVE	
WATER METER	
GAS VALVE AND METER	
SPOT ELEVATION	98.92
TREE (SIZE AND TYPE NOTED)	
ASPHALT PAVEMENT	
TREE LINE	

30 0 30 60 90

GRAPHIC SCALE IN FEET

GEORGIA REGISTERED No. 3122 LAND SURVEYOR DAVID G. BENNETT

TOPOGRAPHIC SURVEY

FOR

ENVIRONMENTAL INTERNATIONAL CORPORATION

OF

GEORGIA PORT AUTHORITY

BAINBRIDGE TERMINAL

DECATUR COUNTY BAINBRIDGE GEORGIA

10/20/09 – ADDED TOPO AREA	R.L.S. NO. 3122	DSGN: N/A
06/28/13 – ADDED MW'S	DATE: 9/30/09	DRWN: MH
07/11/14 – REVISED MW-10 LOCATION	CHKD: DB	FIELD FILE: B186;B346
01/06/15 – ADDED SB'S TO SHEET 2	SCALE: 1"=30'	DRAWING NO. 2931-09-D
	PROJ. NO.: 2070-001-D1	SHEET 1 OF 2
	FIELD BOOK: EDC	

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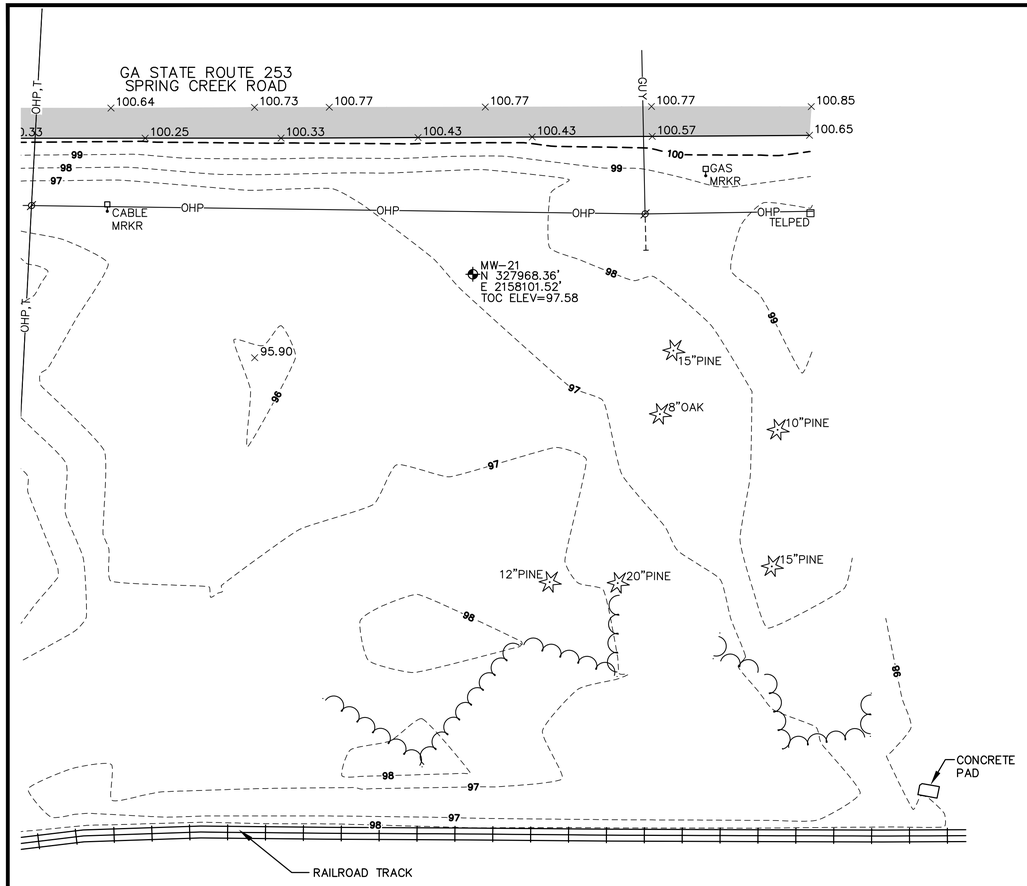
B346.DWG/30 PLOT DATE: 06/17/2013 BY: david



MW-22
N 328254.30'
E 2158265.85'
TOC ELEV=98.90

MW-20
N 328204.21'
E 2158350.82'
TOC ELEV=96.61

MW-16
N 328405.109'
E 2158679.02'
TOC ELEV=97.17



LEGEND

CONTOUR LINE	100
OVERHEAD POWER LINE	OHP
OVERHEAD TELEPHONE LINE	OHT
TELEPHONE PEDESTAL	TELPED
POWER POLE W/GUY	
MONITORING WELL	MW-10
SOIL BORING	WH3 N1
BOLLARD	
SIGN	
FIRE HYDRANT	
WATER VALVE	
WATER METER	
GAS VALVE AND METER	
SPOT ELEVATION	95.90
TREE (SIZE AND TYPE NOTED)	
ASPHALT PAVEMENT	
TREE LINE	

NOTES

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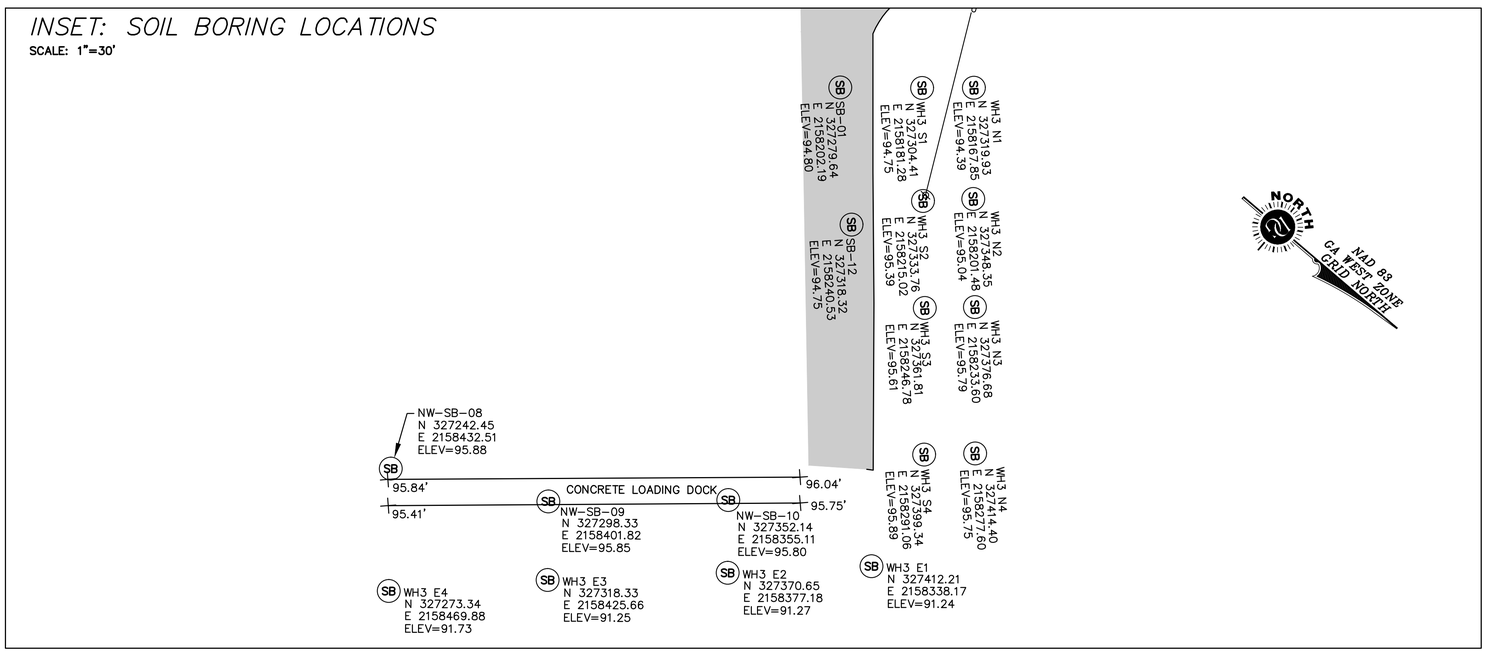
4. ELEVATIONS SHOWN ARE BASED ON MEAN SEA LEVEL DATUM, NAVD88, AND WERE DERIVED FROM GPS OBSERVATIONS USING A LEICA SYSTEM 1200 GPS RECEIVER.

INSET: SOIL BORING LOCATIONS

SCALE: 1"=30'



30 0 30 60 90

GRAPHIC SCALE IN FEET

GEORGIA REGISTERED No. 3122 LAND SURVEYOR DAVID G. BENNETT

TOPOGRAPHIC SURVEY

FOR

ENVIRONMENTAL INTERNATIONAL CORPORATION
OF
GEORGIA PORT AUTHORITY
BAINBRIDGE TERMINAL

DECATUR COUNTY BAINBRIDGE GEORGIA

10/20/09 – ADDED TOPO AREA	R.L.S. NO. 3122	DSGN: N/A
06/28/13 – ADDED MW'S, SB'S AND	DATE: 9/30/09	DRWN: MH
PROPOSED FENCE LOCATION	CHKD: DB	FIELD FILE: B186;B346
01/06/15 – ADDED SB'S	SCALE: 1"=30'	DRAWING NO. 2931-09-D
	PROJ. NO.: 1684-031-D1	SHEET 2 OF 2
	FIELD BOOK: EDC	

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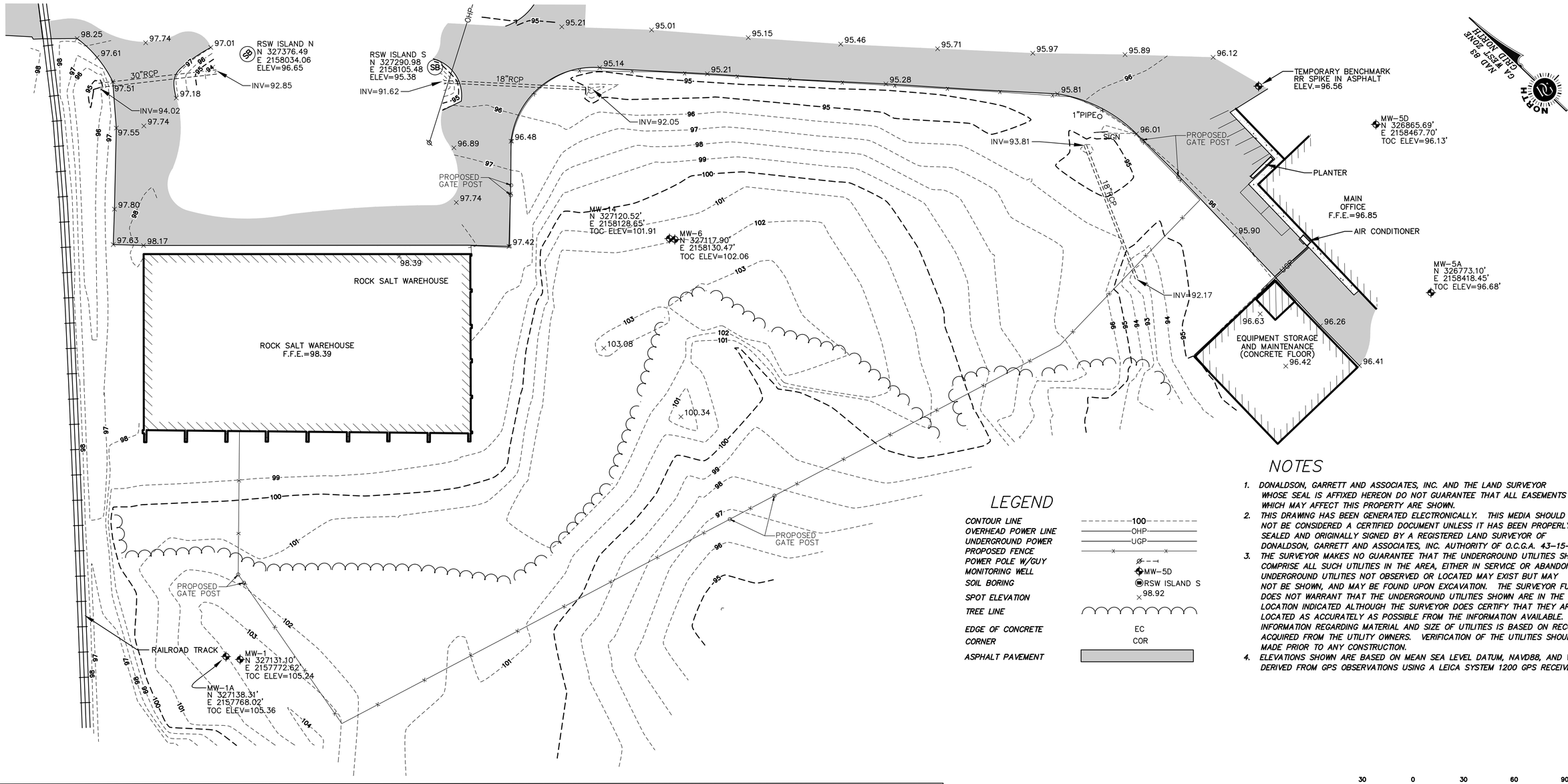
B346.DWG/30 PLOT DATE: 06/17/2013 BY: david



LEGEND

CONTOUR LINE	100
OVERHEAD POWER LINE	OHP
UNDERGROUND POWER	UGP
PROPOSED FENCE	
POWER POLE W/GUY	
MONITORING WELL	MW-5D
SOIL BORING	RSW ISLAND S
SPOT ELEVATION	98.92
TREE LINE	
EDGE OF CONCRETE	EC
CORNER	COR
ASPHALT PAVEMENT	

NOTES

1. DONALDSON, GARRETT AND ASSOCIATES, INC. AND THE LAND SURVEYOR WHOSE SEAL IS AFFIXED HEREON DO NOT GUARANTEE THAT ALL EASEMENTS WHICH MAY AFFECT THIS PROPERTY ARE SHOWN.
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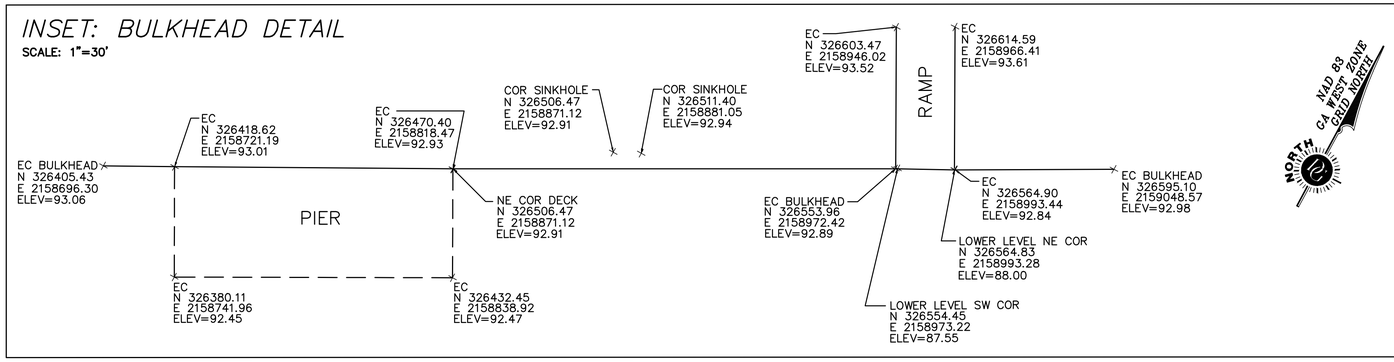
4. ELEVATIONS SHOWN ARE BASED ON MEAN SEA LEVEL DATUM, NAVD88, AND WERE DERIVED FROM GPS OBSERVATIONS USING A LEICA SYSTEM 1200 GPS RECEIVER.

INSET: BULKHEAD DETAIL

SCALE: 1"=30'



30 0 30 60 90

GRAPHIC SCALE IN FEET

GEORGIA REGISTERED No. 3122 LAND SURVEYOR DAVID G. BENNETT

TOPOGRAPHIC SURVEY

FOR

ENVIRONMENTAL INTERNATIONAL CORPORATION

OF

GEORGIA PORT AUTHORITY
BAINBRIDGE TERMINAL

DECATUR COUNTY BAINBRIDGE GEORGIA

6-23-10 ADDED TOPO NW OF ROCK SALT WAREHOUSE	R.L.S. NO. 3122	DSGN: N/A
6-28-13 ADDED SB'S, BULKHEAD DETAIL, AND	DATE: 10/21/09	DRWN: MH;DB
PROPOSED FENCE LOCATION	CHKD: DB	FIELD FILE: B186;B346
10-14-13 CHANGED LINETYPE ON PIER AND BULKHEAD	SCALE: 1"=30'	DRAWING NO. 2934-09-D
7-11-14 ADDED SHEET 2	PROJ. NO.: 1684-031-D1	SHEET 1 OF 3
1-6-15 ADDED SHEET 3, MW'S 5A & 5D	FIELD BOOK: EDC	

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B346.DWG/30 PLOT DATE: 06/17/2013 BY: david



MW-15
N 327281.17'
E 2158725.83'
TOC ELEV=98.13'

LEGEND

CONTOUR LINE	100
OVERHEAD POWER LINE	OHP
UNDERGROUND POWER	UGP
PROPOSED FENCE	x x
POWER POLE W/GUY	
MONITORING WELL	MW-5D
SOIL BORING	RSW ISLAND S
SPOT ELEVATION	98.92
TREE LINE	
EDGE OF CONCRETE	EC
CORNER	COR
ASPHALT PAVEMENT	

NOTES

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4. ELEVATIONS SHOWN ARE BASED ON MEAN SEA LEVEL DATUM, NAVD88, AND WERE DERIVED FROM GPS OBSERVATIONS USING A LEICA SYSTEM 1200 GPS RECEIVER.

MW-8
N 326675.94'
E 2158764.50'
TOC ELEV=93.54'

MW-17
N 326333.22'
E 2158397.18'
TOC ELEV=93.64'

MW-12
N 326654.23'
E 2158983.46'
TOC ELEV=94.08'

MW-24
N 326087.36'
E 2158056.83'
TOC ELEV=93.08'

MW-13
N 326161.84'
E 2158241.78'
TOC ELEV=93.55'

MW-23
N 326456.46'
E 2158717.38'
TOC ELEV=93.63'

RAMP

PIER

STILLING WELL
N 326428.59'
E 2158835.60'
TOC ELEV=91.68'

50 0 50 100 150
GRAPHIC SCALE IN FEET

GEORGIA REGISTERED No. 3122 LAND SURVEYOR DAVID G. BENNETT

TOPOGRAPHIC SURVEY

FOR

ENVIRONMENTAL INTERNATIONAL CORPORATION
OF
GEORGIA PORT AUTHORITY
BAINBRIDGE TERMINAL

DECATUR COUNTY BAINBRIDGE GEORGIA

7-11-14 REVISED MW-17 & MW-15 LOCATIONS	R.L.S. NO. 3122	DSGN: N/A
& ADDED MW-23 AND STILLING WELL	DATE: 10/21/09	DRWN: MH;DB
1-6-15 ADDED SHEET 3, MW'S 8, 12, 13, & 24	CHKD: DB	FIELD FILE: B186;B346
	SCALE: 1"=30'	DRAWING NO. 2934-09-D
	PROJ. NO.: 1684-031-D1	SHEET 2 OF 3
	FIELD BOOK: EDC	

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MW-4U
N 326972.01'
E 2157534.67'
TOC ELEV=103.54

MW-3
N 326668.71'
E 2157839.22'
TOC ELEV=97.13

MW-2
N 326511.26'
E 2157479.07'
TOC ELEV=98.87'

LEGEND

CONTOUR LINE	---------100---------
OVERHEAD POWER LINE	----------OHP----------
UNDERGROUND POWER	----------UGP----------
PROPOSED FENCE	-x----------x-
POWER POLE W/GUY	⌀---→
MONITORING WELL	MW-5D
SOIL BORING	RSW ISLAND S
SPOT ELEVATION	98.92
TREE LINE	
EDGE OF CONCRETE	EC
CORNER	COR
ASPHALT PAVEMENT	

NOTES

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4. ELEVATIONS SHOWN ARE BASED ON MEAN SEA LEVEL DATUM, NAVD88, AND WERE DERIVED FROM GPS OBSERVATIONS USING A LEICA SYSTEM 1200 GPS RECEIVER.

30 0 30 60 90
GRAPHIC SCALE IN FEET

GEORGIA REGISTERED No. 3122 LAND SURVEYOR DAVID G. BENNETT

TOPOGRAPHIC SURVEY

FOR

ENVIRONMENTAL INTERNATIONAL CORPORATION
OF
GEORGIA PORT AUTHORITY
BAINBRIDGE TERMINAL

DECATUR COUNTY BAINBRIDGE GEORGIA

6-23-10 ADDED TOPO NW OF ROCK SALT WAREHOUSE	R.L.S. NO. 3122	DSGN: N/A
6-28-13 ADDED SB'S, BULKHEAD DETAIL, AND PROPOSED FENCE LOCATION	DATE: 10/21/09	DRWN: MH;DB
10-14-13 CHANGED LINETYPE ON PIER AND BULKHEAD	CHKD: DB	FIELD FILE: B186;B346
7-11-14 ADDED SHEET 2	SCALE: 1"=30'	DRAWING NO. 2934-09-D
1-6-15 ADDED SHEET 3 & MW-2	PROJ. NO.: 1684-031-D1	SHEET 3 OF 3
	FIELD BOOK: EDC	

DONALDSON, GARRETT, & ASSOCIATES, INC.
MACON • CHARLOTTE
4875 RIVERSIDE DRIVE P.O. BOX 7306
MACON, GA 31210
(478)474-5350 Fax: (478) 477-2534
http://www.dg-a.com

THESE DOCUMENTS, AS INSTRUMENTS OF SERVICE, REMAIN THE PROPERTY OF D, G & A AND NO PART THEREOF MAY BE USED OR REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION.

ENVIRONMENTAL INTERNATIONAL CORP
GA PORT AUTHORITY-BAINBRIDGE TERMINAL
SOIL BORING & MONITORING WELL SURVEY DATA
PREPARED BY DONALDSON, GARRETT, & ASSOC, INC.
January 6, 2015
FIELD WORK PERFORMED: December 30, 2014

ID	NORTHING	EASTING	ELEVATION	
			GROUND	TOC
DOCK	327367.81	2158329.74	96.04	
DOCK	327374.52	2158337.47	95.75	
DOCK	327251.23	2158444.28	95.41	
DOCK	327244.38	2158436.47	95.84	
NW-SB-08	327242.45	2158432.51	95.88	
NW-SB-09	327298.33	2158401.82	95.85	
NW-SB-10	327352.14	2158355.11	95.80	
WH3 E1	327412.21	2158338.17	91.24	
WH3 E2	327370.65	2158377.18	91.27	
WH3 E3	327318.33	2158425.66	91.25	
WH3 E4	327273.34	2158469.88	91.73	
MW-2	326511.26	2157479.07	96.10	98.87
MW-5D	326865.69	2158467.70	96.20	96.13
MW-5A	326773.10	2158418.45	96.90	96.68
MW-8	326675.94	2158764.50	93.80	93.54
MW-12	326654.23	2158983.46	94.20	94.08
MW-13	326161.84	2158241.78	93.70	93.55
MW-24	326087.36	2158056.83	92.90	93.08

NOTE: COORDINATES SHOWN ARE GA STATE PLANE GRID, WEST ZONE, NAD83. ELEVATIONS ARE NAVD 88 DATUM.

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

FIFTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT A2
APRIL 2015 SURVEY REPORT

ENVIRONMENTAL INTERNATIONAL CORP
GA PORT AUTHORITY-BAINBRIDGE TERMINAL
MONITORING WELL TOC ELEVATION REVISIONS
PREPARED BY DONALDSON, GARRETT, & ASSOC, INC.
April 22, 2015

ID	NORTHING	EASTING	TOC ELEVATION
MW-1	327131.10	2157772.62	105.22
MW-1A	327138.31	2157768.02	105.33
MW-2	326511.26	2157479.07	98.86
MW-3	326668.71	2157839.22	97.12
MW-4U	326972.01	2157534.67	103.51
MW-5A	326773.10	2158418.45	96.67
MW-5D	326865.69	2158467.70	96.12
MW-6	327117.90	2158130.47	102.25
MW-7	327594.87	2157836.42	98.10
MW-8	326675.94	2158764.50	93.54
MW-10	327805.10	2157924.22	99.83
MW-11	327332.22	2157432.75	100.87
MW-12	326654.23	2158983.46	94.06
MW-13	326161.84	2158241.78	93.55
MW-14	327120.52	2158128.65	102.11
MW-15	327281.17	2158725.83	98.13
MW-16	328405.11	2158679.02	97.15
MW-17	326333.22	2158397.18	93.65
MW-18	327609.42	2158789.13	95.56
MW-19	328200.29	2159434.47	96.60
MW-20	328204.21	2158350.82	96.57
MW-21	327968.36	2158101.52	97.55
MW-22	328254.30	2158265.85	98.88
MW-23	326456.46	2158717.38	93.61
MW-24	326087.36	2158056.83	93.07
STILLING WELL	326428.590	2158835.60	91.66

NOTES: COORDINATES SHOWN ARE GA STATE PLANE GRID, WEST ZONE, NAD83. ELEVATIONS ARE NAVD 88 DATUM. BOTH WERE COMPUTED FROM STATIC GPS OBSERVATIONS AND NGS OPUS USING GEOID 03.

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

FIFTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT B
AOC-2 SOIL AND DECEMBER 2014 IDW CHARACTERIZATION ANALYTICAL RESULTS

Analytical Report 498334

for

Environmental International Corporation

Project Manager: Alan Sanders

GPA - Bainbridge

400007

23-DEC-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 (T104704215-14-18), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

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)

23-DEC-14

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

Reference: XENCO Report No(s): **498334**
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) 498334. 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. 498334 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

Sample Cross Reference 498334

Environmental International Corporation, Alpharetta, GA

GPA - Bainbridge

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-24 Liquid IDW	W	12-04-14 08:32		498334-001
MW-24 Soil 1&2 IDW (Lab Composite)	S	12-04-14 08:59		498334-002
MW-24 Soil Rinsate	W	12-04-14 09:43		498334-004
WH3-E1-0'-2'	S	12-04-14 14:24	0 - 2 ft	498334-005
WH3-E1-3'-5'	S	12-04-14 14:51	3 - 5 ft	498334-006
WH3-E2-0'-2'	S	12-04-14 15:20	0 - 2 ft	498334-007
WH3-E2-3'-5'	S	12-04-14 15:52	3 - 5 ft	498334-008
WH3-E3-0'-2'	S	12-04-14 16:31	0 - 2 ft	498334-009
WH3-E3-3'-5'	S	12-04-14 17:00	3 - 5 ft	498334-010
WH3-E4-0'-2'	S	12-04-14 17:57	0 - 2 ft	498334-011
WH3-E4-3'-5'	S	12-04-14 19:30	3 - 5 ft	498334-012
WH3-Auger Rinsate	W	12-04-14 20:07		498334-013
MW-24 Soil 2 IDW	S	12-04-14 09:26		Not Analyzed

Sample receipt non conformances and comments:

Samples 498334-002 MW-24 Soil 1 IDW & 498334-003 MW-24 Soil 2 IDW composited at lab for TCLP Pesticide analysis.
All Samples for Pesticide Analysis subjected to sulphur clean up by SW846 3660B.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-957355 Organochlorine Pesticides by SW-846 8081B
Surrogate Decachlorobiphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 498334-009.

Aldrin RPD was outside laboratory control limits.
Samples affected are: 498334-005, -009, -011, -006, -010, -012, -007, -008

Hits Summary 498334

Environmental International Corporation, Alpharetta, GA

GPA - Bainbridge

Sample Id : **MW-24 Liquid IDW** Matrix : Liquid % Moisture :
Lab Sample Id : 498334-001 Date Collected : 12.04.14 08.32
Date Received : 12.05.14 16.45

Analytical Method : Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C
Seq Number 957359 Date Prep: 12.09.14 12.50

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Delta-BHC	319-86-8	0.00246	ug/L	12.10.14 14.31	J	1

Sample Id : **WH3-E1-0'-2'** Matrix : Soil % Moisture : 5.42
Lab Sample Id : 498334-005 Date Collected : 12.04.14 14.24 Basis : Dry Weight
Sample Depth : 0 - 2 ft Date Received : 12.05.14 16.45

Analytical Method : Organochlorine Pesticides by SW-846 8081B Prep Method: SW3545
Seq Number 957355 Date Prep: 12.09.14 14.30

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.000221	mg/kg	12.10.14 17.13	J	1
Beta-BHC	319-85-7	0.000800	mg/kg	12.10.14 17.13	J	1
4,4-DDE	72-55-9	0.000726	mg/kg	12.10.14 17.13	J	1
Endosulfan II	33213-65-9	0.000239	mg/kg	12.10.14 17.13	J	1
Endosulfan Sulfate	1031-07-8	0.000253	mg/kg	12.10.14 17.13	J	1
4,4-DDT	50-29-3	0.00255	mg/kg	12.10.14 17.13	J	1
Endrin Aldehyde	7421-93-4	0.000319	mg/kg	12.10.14 17.13	J	1

Sample Id : **WH3-E1-3'-5'** Matrix : Soil % Moisture : 6.02
Lab Sample Id : 498334-006 Date Collected : 12.04.14 14.51 Basis : Dry Weight
Sample Depth : 3 - 5 ft Date Received : 12.05.14 16.45

Analytical Method : Organochlorine Pesticides by SW-846 8081B Prep Method: SW3545
Seq Number 957355 Date Prep: 12.09.14 14.30

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Beta-BHC	319-85-7	0.000259	mg/kg	12.10.14 18.14	J	1

Hits Summary 498334

Environmental International Corporation, Alpharetta, GA

GPA - Bainbridge

Sample Id : **WH3-E2-0'-2'** Matrix : Soil % Moisture : 6.9
Lab Sample Id : 498334-007 Date Collected : 12.04.14 15.20 Basis : Dry Weight
Sample Depth : 0 - 2 ft Date Received : 12.05.14 16.45

Analytical Method : Organochlorine Pesticides by SW-846 8081B Prep Method: SW3545
Seq Number 957355 Date Prep: 12.09.14 14.30

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.00241	mg/kg	12.10.14 19.14		1
Beta-BHC	319-85-7	0.0151	mg/kg	12.10.14 19.14		1
Delta-BHC	319-86-8	0.000851	mg/kg	12.10.14 19.14	J	1
Gamma-BHC (Lindane)	58-89-9	0.00112	mg/kg	12.10.14 19.14	J	1
4,4-DDE	72-55-9	0.00210	mg/kg	12.10.14 19.14	J	1
4,4-DDD	72-54-8	0.000629	mg/kg	12.10.14 19.14	J	1
Endosulfan Sulfate	1031-07-8	0.000472	mg/kg	12.10.14 19.14	J	1
4,4-DDT	50-29-3	0.0120	mg/kg	12.10.14 19.14		1

Sample Id : **WH3-E2-3'-5'** Matrix : Soil % Moisture : 7.58
Lab Sample Id : 498334-008 Date Collected : 12.04.14 15.52 Basis : Dry Weight
Sample Depth : 3 - 5 ft Date Received : 12.05.14 16.45

Analytical Method : Organochlorine Pesticides by SW-846 8081B Prep Method: SW3545
Seq Number 957355 Date Prep: 12.09.14 14.30

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Beta-BHC	319-85-7	0.000321	mg/kg	12.10.14 19.34	J	1

Sample Id : **WH3-E3-0'-2'** Matrix : Soil % Moisture : 10.68
Lab Sample Id : 498334-009 Date Collected : 12.04.14 16.31 Basis : Dry Weight
Sample Depth : 0 - 2 ft Date Received : 12.05.14 16.45

Analytical Method : Organochlorine Pesticides by SW-846 8081B Prep Method: SW3545
Seq Number 957355 Date Prep: 12.09.14 14.30

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.00288	mg/kg	12.10.14 19.55		1
Beta-BHC	319-85-7	0.0199	mg/kg	12.10.14 19.55		1
Delta-BHC	319-86-8	0.00160	mg/kg	12.10.14 19.55	J	1
Gamma-BHC (Lindane)	58-89-9	0.00211	mg/kg	12.10.14 19.55		1
4,4-DDE	72-55-9	0.00488	mg/kg	12.10.14 19.55		1
4,4-DDD	72-54-8	0.00103	mg/kg	12.10.14 19.55	J	1
4,4-DDT	50-29-3	0.0230	mg/kg	12.10.14 19.55		1

Hits Summary 498334

Environmental International Corporation, Alpharetta, GA

GPA - Bainbridge

Sample Id : **WH3-E4-0'-2'**
Lab Sample Id : 498334-011
Sample Depth : 0 - 2 ft

Matrix : Soil
Date Collected : 12.04.14 17.57
Date Received : 12.05.14 16.45

% Moisture : 15.2
Basis : Dry Weight

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 957355

Prep Method: SW3545
Date Prep: 12.09.14 14.30

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	0.00134	mg/kg	12.10.14 20.35	J	1
Beta-BHC	319-85-7	0.00852	mg/kg	12.10.14 20.35		1
Delta-BHC	319-86-8	0.000565	mg/kg	12.10.14 20.35	J	1
Gamma-BHC (Lindane)	58-89-9	0.00191	mg/kg	12.10.14 20.35	J	1
4,4-DDE	72-55-9	0.000898	mg/kg	12.10.14 20.35	J	1
Endosulfan II	33213-65-9	0.000745	mg/kg	12.10.14 20.35	J	1
4,4-DDT	50-29-3	0.00416	mg/kg	12.10.14 20.35		1
Endrin Ketone	53494-70-5	0.00109	mg/kg	12.10.14 20.35	J	1

Sample Id : **WH3-E4-3'-5'**
Lab Sample Id : 498334-012
Sample Depth : 3 - 5 ft

Matrix : Soil
Date Collected : 12.04.14 19.30
Date Received : 12.05.14 16.45

% Moisture : 20.4
Basis : Dry Weight

Analytical Method : Organochlorine Pesticides by SW-846 8081B
Seq Number 957355

Prep Method: SW3545
Date Prep: 12.09.14 14.30

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Beta-BHC	319-85-7	0.000611	mg/kg	12.10.14 20.55	J	1

Certificate of Analytical Results 498334

Environmental International Corporation, Alpharetta, GA

GPA - Bainbridge

Sample Id: **MW-24 Liquid IDW** Matrix: Liquid Date Received:12.05.14 16.45

Lab Sample Id: 498334-001 Date Collected: 12.04.14 08.32

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 12.09.14 12.50

Seq Number: 957359

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.103	0.00379	ug/L	12.10.14 14.31	U	1
4,4-DDE	72-55-9	U	0.103	0.00359	ug/L	12.10.14 14.31	U	1
4,4-DDT	50-29-3	U	0.103	0.00503	ug/L	12.10.14 14.31	U	1
Aldrin	309-00-2	U	0.0513	0.00267	ug/L	12.10.14 14.31	U	1
Alpha-BHC	319-84-6	U	0.0513	0.0104	ug/L	12.10.14 14.31	U	1
Alpha-Chlordane	5103-71-9	U	0.0513	0.00226	ug/L	12.10.14 14.31	U	1
Beta-BHC	319-85-7	U	0.0513	0.00236	ug/L	12.10.14 14.31	U	1
Delta-BHC	319-86-8	**0.00246**	0.0513	0.00205	ug/L	12.10.14 14.31	J	1
Dieldrin	60-57-1	U	0.103	0.00441	ug/L	12.10.14 14.31	U	1
Endosulfan I	959-98-8	U	0.0513	0.00246	ug/L	12.10.14 14.31	U	1
Endosulfan II	33213-65-9	U	0.103	0.00462	ug/L	12.10.14 14.31	U	1
Endosulfan Sulfate	1031-07-8	U	0.103	0.00718	ug/L	12.10.14 14.31	U	1
Endrin	72-20-8	U	0.103	0.00472	ug/L	12.10.14 14.31	U	1
Endrin Aldehyde	7421-93-4	U	0.103	0.00882	ug/L	12.10.14 14.31	U	1
Endrin Ketone	53494-70-5	U	0.103	0.00462	ug/L	12.10.14 14.31	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0513	0.00164	ug/L	12.10.14 14.31	U	1
Gamma-Chlordane	5103-74-2	U	0.0513	0.00185	ug/L	12.10.14 14.31	U	1
Heptachlor	76-44-8	U	0.0513	0.00297	ug/L	12.10.14 14.31	U	1
Heptachlor Epoxide	1024-57-3	U	0.0513	0.00287	ug/L	12.10.14 14.31	U	1
Methoxychlor	72-43-5	U	0.513	0.0295	ug/L	12.10.14 14.31	U	1
Chlordane	12789-03-6	U	0.513	0.0988	ug/L	12.10.14 14.31	U	1
Toxaphene	8001-35-2	U	2.56	0.434	ug/L	12.10.14 14.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	83	%	27-135	12.10.14 14.31	
Decachlorobiphenyl	2051-24-3	97	%	26-154	12.10.14 14.31	

Certificate of Analytical Results 498334

Environmental International Corporation, Alpharetta, GA

GPA - Bainbridge

Sample Id: **MW-24 Soil 1&2 IDW (Lab Composite)** Matrix: Solid Date Received:12.05.14 16.45

Lab Sample Id: 498334-002 Date Collected: 12.04.14 08.59

Analytical Method: TCLP Pesticides by SW-846 1311/8081B Prep Method: SW3510C

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 12.09.14 12.50

Seq Number: 957359

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gamma-BHC (Lindane)	58-89-9	U	0.500	0.0160	ug/L	12.10.14 14.52	U	1
Heptachlor	76-44-8	U	0.500	0.0290	ug/L	12.10.14 14.52	U	1
Heptachlor Epoxide	1024-57-3	U	0.500	0.0280	ug/L	12.10.14 14.52	U	1
Endrin	72-20-8	U	1.00	0.0460	ug/L	12.10.14 14.52	U	1
Methoxychlor	72-43-5	U	5.00	0.288	ug/L	12.10.14 14.52	U	1
Chlordane	12789-03-6	U	5.00	0.963	ug/L	12.10.14 14.52	U	1
Toxaphene	8001-35-2	U	20.0	4.23	ug/L	12.10.14 14.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	84	%	27-135	12.10.14 14.52	
Decachlorobiphenyl	2051-24-3	97	%	26-154	12.10.14 14.52	

Certificate of Analytical Results 498334

Environmental International Corporation, Alpharetta, GA

GPA - Bainbridge

Sample Id: **MW-24 Soil Rinsate** Matrix: Water Date Received:12.05.14 16.45
Lab Sample Id: 498334-004 Date Collected: 12.04.14 09.43

Analytical Method: Organochlorine Pesticides by SW-846 8081B Prep Method: SW3510C
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 12.09.14 12.50
Seq Number: 957359

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0980	0.00363	ug/L	12.10.14 15.12	U	1
4,4-DDE	72-55-9	U	0.0980	0.00343	ug/L	12.10.14 15.12	U	1
4,4-DDT	50-29-3	U	0.0980	0.00480	ug/L	12.10.14 15.12	U	1
Aldrin	309-00-2	U	0.0490	0.00255	ug/L	12.10.14 15.12	U	1
Alpha-BHC	319-84-6	U	0.0490	0.00990	ug/L	12.10.14 15.12	U	1
Alpha-Chlordane	5103-71-9	U	0.0490	0.00216	ug/L	12.10.14 15.12	U	1
Beta-BHC	319-85-7	U	0.0490	0.00225	ug/L	12.10.14 15.12	U	1
Delta-BHC	319-86-8	U	0.0490	0.00196	ug/L	12.10.14 15.12	U	1
Dieldrin	60-57-1	U	0.0980	0.00422	ug/L	12.10.14 15.12	U	1
Endosulfan I	959-98-8	U	0.0490	0.00235	ug/L	12.10.14 15.12	U	1
Endosulfan II	33213-65-9	U	0.0980	0.00441	ug/L	12.10.14 15.12	U	1
Endosulfan Sulfate	1031-07-8	U	0.0980	0.00686	ug/L	12.10.14 15.12	U	1
Endrin	72-20-8	U	0.0980	0.00451	ug/L	12.10.14 15.12	U	1
Endrin Aldehyde	7421-93-4	U	0.0980	0.00843	ug/L	12.10.14 15.12	U	1
Endrin Ketone	53494-70-5	U	0.0980	0.00441	ug/L	12.10.14 15.12	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0490	0.00157	ug/L	12.10.14 15.12	U	1
Gamma-Chlordane	5103-74-2	U	0.0490	0.00176	ug/L	12.10.14 15.12	U	1
Heptachlor	76-44-8	U	0.0490	0.00284	ug/L	12.10.14 15.12	U	1
Heptachlor Epoxide	1024-57-3	U	0.0490	0.00275	ug/L	12.10.14 15.12	U	1
Methoxychlor	72-43-5	U	0.490	0.0282	ug/L	12.10.14 15.12	U	1
Chlordane	12789-03-6	U	0.490	0.0944	ug/L	12.10.14 15.12	U	1
Toxaphene	8001-35-2	U	2.45	0.415	ug/L	12.10.14 15.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	86	%	27-135	12.10.14 15.12	
Decachlorobiphenyl	2051-24-3	102	%	26-154	12.10.14 15.12	

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Sample Id:	**WH3-E1-0'-2'**	Matrix:	Soil	Date Received:	12.05.14 16.45
Lab Sample Id:	498334-005	Date Collected:	12.04.14 14.24	Sample Depth:	0 - 2 ft

Analytical Method:	Organochlorine Pesticides by SW-846 8081B			Prep Method:	SW3545
Tech:	VBR			% Moisture:	5.42
Analyst:	CLAR	Date Prep:	12.09.14 14.30	Basis:	Dry Weight
Seq Number:	957355				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	**0.000221**	0.00175	0.0000917	mg/kg	12.10.14 17.13	J	1
Beta-BHC	319-85-7	**0.000800**	0.00175	0.000182	mg/kg	12.10.14 17.13	J	1
Delta-BHC	319-86-8	U	0.00175	0.000204	mg/kg	12.10.14 17.13	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.00175	0.0000978	mg/kg	12.10.14 17.13	U	1
Heptachlor	76-44-8	U	0.00175	0.000202	mg/kg	12.10.14 17.13	U	1
Aldrin	309-00-2	U	0.00175	0.000110	mg/kg	12.10.14 17.13	UF	1
Heptachlor Epoxide	1024-57-3	U	0.00175	0.0000976	mg/kg	12.10.14 17.13	U	1
Endosulfan I	959-98-8	U	0.00175	0.000143	mg/kg	12.10.14 17.13	U	1
Dieldrin	60-57-1	U	0.00351	0.000176	mg/kg	12.10.14 17.13	U	1
4,4-DDE	72-55-9	**0.000726**	0.00351	0.000191	mg/kg	12.10.14 17.13	J	1
Endrin	72-20-8	U	0.00351	0.000177	mg/kg	12.10.14 17.13	U	1
Endosulfan II	33213-65-9	**0.000239**	0.00351	0.000179	mg/kg	12.10.14 17.13	J	1
4,4-DDD	72-54-8	U	0.00351	0.000193	mg/kg	12.10.14 17.13	U	1
Endosulfan Sulfate	1031-07-8	**0.000253**	0.00351	0.000233	mg/kg	12.10.14 17.13	J	1
4,4-DDT	50-29-3	**0.00255**	0.00351	0.000312	mg/kg	12.10.14 17.13	J	1
Methoxychlor	72-43-5	U	0.0175	0.00119	mg/kg	12.10.14 17.13	U	1
Endrin Ketone	53494-70-5	U	0.00351	0.000198	mg/kg	12.10.14 17.13	U	1
Endrin Aldehyde	7421-93-4	**0.000319**	0.00351	0.000244	mg/kg	12.10.14 17.13	J	1
Alpha-Chlordane	5103-71-9	U	0.00175	0.000151	mg/kg	12.10.14 17.13	U	1
Gamma-Chlordane	5103-74-2	U	0.00175	0.000296	mg/kg	12.10.14 17.13	U	1
Chlordane	12789-03-6	U	0.0175	0.00489	mg/kg	12.10.14 17.13	U	1
Toxaphene	8001-35-2	U	0.0702	0.0149	mg/kg	12.10.14 17.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	73	%	27-130	12.10.14 17.13	
Decachlorobiphenyl	2051-24-3	102	%	65-149	12.10.14 17.13	

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Sample Id:	**WH3-E1-3'-5'**	Matrix:	Soil	Date Received:	12.05.14 16.45
Lab Sample Id:	498334-006	Date Collected:	12.04.14 14.51	Sample Depth:	3 - 5 ft

Analytical Method:	Organochlorine Pesticides by SW-846 8081B			Prep Method:	SW3545
Tech:	VBR			% Moisture:	6.02
Analyst:	CLAR	Date Prep:	12.09.14 14.30	Basis:	Dry Weight
Seq Number:	957355				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	U	0.00177	0.0000926	mg/kg	12.10.14 18.14	U	1
Beta-BHC	319-85-7	**0.000259**	0.00177	0.000184	mg/kg	12.10.14 18.14	J	1
Delta-BHC	319-86-8	U	0.00177	0.000206	mg/kg	12.10.14 18.14	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.00177	0.0000987	mg/kg	12.10.14 18.14	U	1
Heptachlor	76-44-8	U	0.00177	0.000204	mg/kg	12.10.14 18.14	U	1
Aldrin	309-00-2	U	0.00177	0.000111	mg/kg	12.10.14 18.14	UF	1
Heptachlor Epoxide	1024-57-3	U	0.00177	0.0000985	mg/kg	12.10.14 18.14	U	1
Endosulfan I	959-98-8	U	0.00177	0.000144	mg/kg	12.10.14 18.14	U	1
Dieldrin	60-57-1	U	0.00354	0.000178	mg/kg	12.10.14 18.14	U	1
4,4-DDE	72-55-9	U	0.00354	0.000193	mg/kg	12.10.14 18.14	U	1
Endrin	72-20-8	U	0.00354	0.000179	mg/kg	12.10.14 18.14	U	1
Endosulfan II	33213-65-9	U	0.00354	0.000180	mg/kg	12.10.14 18.14	U	1
4,4-DDD	72-54-8	U	0.00354	0.000195	mg/kg	12.10.14 18.14	U	1
Endosulfan Sulfate	1031-07-8	U	0.00354	0.000235	mg/kg	12.10.14 18.14	U	1
4,4-DDT	50-29-3	U	0.00354	0.000315	mg/kg	12.10.14 18.14	U	1
Methoxychlor	72-43-5	U	0.0177	0.00120	mg/kg	12.10.14 18.14	U	1
Endrin Ketone	53494-70-5	U	0.00354	0.000200	mg/kg	12.10.14 18.14	U	1
Endrin Aldehyde	7421-93-4	U	0.00354	0.000247	mg/kg	12.10.14 18.14	U	1
Alpha-Chlordane	5103-71-9	U	0.00177	0.000152	mg/kg	12.10.14 18.14	U	1
Gamma-Chlordane	5103-74-2	U	0.00177	0.000299	mg/kg	12.10.14 18.14	U	1
Chlordane	12789-03-6	U	0.0177	0.00494	mg/kg	12.10.14 18.14	U	1
Toxaphene	8001-35-2	U	0.0708	0.0150	mg/kg	12.10.14 18.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	53	%	27-130	12.10.14 18.14	
Decachlorobiphenyl	2051-24-3	94	%	65-149	12.10.14 18.14	

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Sample Id:	**WH3-E2-0'-2'**	Matrix:	Soil	Date Received:	12.05.14 16.45
Lab Sample Id:	498334-007	Date Collected:	12.04.14 15.20	Sample Depth:	0 - 2 ft

Analytical Method:	Organochlorine Pesticides by SW-846 8081B			Prep Method:	SW3545
Tech:	VBR			% Moisture:	6.9
Analyst:	CLAR	Date Prep:	12.09.14 14.30	Basis:	Dry Weight
Seq Number:	957355				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	**0.00241**	0.00179	0.0000934	mg/kg	12.10.14 19.14		1
Beta-BHC	319-85-7	**0.0151**	0.00179	0.000186	mg/kg	12.10.14 19.14		1
Delta-BHC	319-86-8	**0.000851**	0.00179	0.000207	mg/kg	12.10.14 19.14	J	1
Gamma-BHC (Lindane)	58-89-9	**0.00112**	0.00179	0.0000996	mg/kg	12.10.14 19.14	J	1
Heptachlor	76-44-8	U	0.00179	0.000206	mg/kg	12.10.14 19.14	U	1
Aldrin	309-00-2	U	0.00179	0.000112	mg/kg	12.10.14 19.14	UF	1
Heptachlor Epoxide	1024-57-3	U	0.00179	0.0000994	mg/kg	12.10.14 19.14	U	1
Endosulfan I	959-98-8	U	0.00179	0.000146	mg/kg	12.10.14 19.14	U	1
Dieldrin	60-57-1	U	0.00357	0.000180	mg/kg	12.10.14 19.14	U	1
4,4-DDE	72-55-9	**0.00210**	0.00357	0.000195	mg/kg	12.10.14 19.14	J	1
Endrin	72-20-8	U	0.00357	0.000180	mg/kg	12.10.14 19.14	U	1
Endosulfan II	33213-65-9	U	0.00357	0.000182	mg/kg	12.10.14 19.14	U	1
4,4-DDD	72-54-8	**0.000629**	0.00357	0.000197	mg/kg	12.10.14 19.14	J	1
Endosulfan Sulfate	1031-07-8	**0.000472**	0.00357	0.000238	mg/kg	12.10.14 19.14	J	1
4,4-DDT	50-29-3	**0.0120**	0.00357	0.000318	mg/kg	12.10.14 19.14		1
Methoxychlor	72-43-5	U	0.0179	0.00121	mg/kg	12.10.14 19.14	U	1
Endrin Ketone	53494-70-5	U	0.00357	0.000202	mg/kg	12.10.14 19.14	U	1
Endrin Aldehyde	7421-93-4	U	0.00357	0.000249	mg/kg	12.10.14 19.14	U	1
Alpha-Chlordane	5103-71-9	U	0.00179	0.000154	mg/kg	12.10.14 19.14	U	1
Gamma-Chlordane	5103-74-2	U	0.00179	0.000302	mg/kg	12.10.14 19.14	U	1
Chlordane	12789-03-6	U	0.0179	0.00498	mg/kg	12.10.14 19.14	U	1
Toxaphene	8001-35-2	U	0.0715	0.0151	mg/kg	12.10.14 19.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	66	%	27-130	12.10.14 19.14	
Decachlorobiphenyl	2051-24-3	104	%	65-149	12.10.14 19.14	

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Sample Id:	**WH3-E2-3'-5'**	Matrix:	Soil	Date Received:	12.05.14 16.45
Lab Sample Id:	498334-008	Date Collected:	12.04.14 15.52	Sample Depth:	3 - 5 ft

Analytical Method:	Organochlorine Pesticides by SW-846 8081B			Prep Method:	SW3545
Tech:	VBR			% Moisture:	7.58
Analyst:	CLAR	Date Prep:	12.09.14 14.30	Basis:	Dry Weight
Seq Number:	957355				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	U	0.00180	0.0000942	mg/kg	12.10.14 19.34	U	1
Beta-BHC	319-85-7	**0.000321**	0.00180	0.000187	mg/kg	12.10.14 19.34	J	1
Delta-BHC	319-86-8	U	0.00180	0.000209	mg/kg	12.10.14 19.34	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.00180	0.000100	mg/kg	12.10.14 19.34	U	1
Heptachlor	76-44-8	U	0.00180	0.000207	mg/kg	12.10.14 19.34	U	1
Aldrin	309-00-2	U	0.00180	0.000113	mg/kg	12.10.14 19.34	UF	1
Heptachlor Epoxide	1024-57-3	U	0.00180	0.000100	mg/kg	12.10.14 19.34	U	1
Endosulfan I	959-98-8	U	0.00180	0.000147	mg/kg	12.10.14 19.34	U	1
Dieldrin	60-57-1	U	0.00361	0.000181	mg/kg	12.10.14 19.34	U	1
4,4-DDE	72-55-9	U	0.00361	0.000196	mg/kg	12.10.14 19.34	U	1
Endrin	72-20-8	U	0.00361	0.000182	mg/kg	12.10.14 19.34	U	1
Endosulfan II	33213-65-9	U	0.00361	0.000183	mg/kg	12.10.14 19.34	U	1
4,4-DDD	72-54-8	U	0.00361	0.000198	mg/kg	12.10.14 19.34	U	1
Endosulfan Sulfate	1031-07-8	U	0.00361	0.000240	mg/kg	12.10.14 19.34	U	1
4,4-DDT	50-29-3	U	0.00361	0.000321	mg/kg	12.10.14 19.34	U	1
Methoxychlor	72-43-5	U	0.0180	0.00122	mg/kg	12.10.14 19.34	U	1
Endrin Ketone	53494-70-5	U	0.00361	0.000203	mg/kg	12.10.14 19.34	U	1
Endrin Aldehyde	7421-93-4	U	0.00361	0.000251	mg/kg	12.10.14 19.34	U	1
Alpha-Chlordane	5103-71-9	U	0.00180	0.000155	mg/kg	12.10.14 19.34	U	1
Gamma-Chlordane	5103-74-2	U	0.00180	0.000304	mg/kg	12.10.14 19.34	U	1
Chlordane	12789-03-6	U	0.0180	0.00503	mg/kg	12.10.14 19.34	U	1
Toxaphene	8001-35-2	U	0.0721	0.0153	mg/kg	12.10.14 19.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	70	%	27-130	12.10.14 19.34	
Decachlorobiphenyl	2051-24-3	101	%	65-149	12.10.14 19.34	

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Sample Id:	**WH3-E3-0'-2'**	Matrix:	Soil	Date Received:	12.05.14 16.45
Lab Sample Id:	498334-009	Date Collected:	12.04.14 16.31	Sample Depth:	0 - 2 ft

Analytical Method:	Organochlorine Pesticides by SW-846 8081B			Prep Method:	SW3545
Tech:	VBR			% Moisture:	10.68
Analyst:	CLAR	Date Prep:	12.09.14 14.30	Basis:	Dry Weight
Seq Number:	957355				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	**0.00288**	0.00186	0.0000972	mg/kg	12.10.14 19.55		1
Beta-BHC	319-85-7	**0.0199**	0.00186	0.000193	mg/kg	12.10.14 19.55		1
Delta-BHC	319-86-8	**0.00160**	0.00186	0.000216	mg/kg	12.10.14 19.55	J	1
Gamma-BHC (Lindane)	58-89-9	**0.00211**	0.00186	0.000104	mg/kg	12.10.14 19.55		1
Heptachlor	76-44-8	U	0.00186	0.000214	mg/kg	12.10.14 19.55	U	1
Aldrin	309-00-2	U	0.00186	0.000117	mg/kg	12.10.14 19.55	UF	1
Heptachlor Epoxide	1024-57-3	U	0.00186	0.000103	mg/kg	12.10.14 19.55	U	1
Endosulfan I	959-98-8	U	0.00186	0.000152	mg/kg	12.10.14 19.55	U	1
Dieldrin	60-57-1	U	0.00372	0.000187	mg/kg	12.10.14 19.55	U	1
4,4-DDE	72-55-9	**0.00488**	0.00372	0.000202	mg/kg	12.10.14 19.55		1
Endrin	72-20-8	U	0.00372	0.000187	mg/kg	12.10.14 19.55	U	1
Endosulfan II	33213-65-9	U	0.00372	0.000189	mg/kg	12.10.14 19.55	U	1
4,4-DDD	72-54-8	**0.00103**	0.00372	0.000205	mg/kg	12.10.14 19.55	J	1
Endosulfan Sulfate	1031-07-8	U	0.00372	0.000247	mg/kg	12.10.14 19.55	U	1
4,4-DDT	50-29-3	**0.0230**	0.00372	0.000331	mg/kg	12.10.14 19.55		1
Methoxychlor	72-43-5	U	0.0186	0.00126	mg/kg	12.10.14 19.55	U	1
Endrin Ketone	53494-70-5	U	0.00372	0.000210	mg/kg	12.10.14 19.55	U	1
Endrin Aldehyde	7421-93-4	U	0.00372	0.000259	mg/kg	12.10.14 19.55	U	1
Alpha-Chlordane	5103-71-9	U	0.00186	0.000160	mg/kg	12.10.14 19.55	U	1
Gamma-Chlordane	5103-74-2	U	0.00186	0.000314	mg/kg	12.10.14 19.55	U	1
Chlordane	12789-03-6	U	0.0186	0.00519	mg/kg	12.10.14 19.55	U	1
Toxaphene	8001-35-2	U	0.0744	0.0157	mg/kg	12.10.14 19.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	109	%	27-130	12.10.14 19.55	
Decachlorobiphenyl	2051-24-3	158	%	65-149	12.10.14 19.55	**

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Sample Id:	**WH3-E3-3'-5'**	Matrix:	Soil	Date Received:	12.05.14 16.45
Lab Sample Id:	498334-010	Date Collected:	12.04.14 17.00	Sample Depth:	3 - 5 ft

Analytical Method:	Organochlorine Pesticides by SW-846 8081B			Prep Method:	SW3545
Tech:	VBR			% Moisture:	7.52
Analyst:	CLAR	Date Prep:	12.09.14 14.30	Basis:	Dry Weight
Seq Number:	957355				

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6		U	0.00179	0.0000937	mg/kg	12.10.14 20.15	U	1
Beta-BHC	319-85-7		U	0.00179	0.000186	mg/kg	12.10.14 20.15	U	1
Delta-BHC	319-86-8		U	0.00179	0.000208	mg/kg	12.10.14 20.15	U	1
Gamma-BHC (Lindane)	58-89-9		U	0.00179	0.0001000	mg/kg	12.10.14 20.15	U	1
Heptachlor	76-44-8		U	0.00179	0.000206	mg/kg	12.10.14 20.15	U	1
Aldrin	309-00-2		U	0.00179	0.000113	mg/kg	12.10.14 20.15	UF	1
Heptachlor Epoxide	1024-57-3		U	0.00179	0.0000997	mg/kg	12.10.14 20.15	U	1
Endosulfan I	959-98-8		U	0.00179	0.000146	mg/kg	12.10.14 20.15	U	1
Dieldrin	60-57-1		U	0.00359	0.000180	mg/kg	12.10.14 20.15	U	1
4,4-DDE	72-55-9		U	0.00359	0.000195	mg/kg	12.10.14 20.15	U	1
Endrin	72-20-8		U	0.00359	0.000181	mg/kg	12.10.14 20.15	U	1
Endosulfan II	33213-65-9		U	0.00359	0.000182	mg/kg	12.10.14 20.15	U	1
4,4-DDD	72-54-8		U	0.00359	0.000197	mg/kg	12.10.14 20.15	U	1
Endosulfan Sulfate	1031-07-8		U	0.00359	0.000238	mg/kg	12.10.14 20.15	U	1
4,4-DDT	50-29-3		U	0.00359	0.000319	mg/kg	12.10.14 20.15	U	1
Methoxychlor	72-43-5		U	0.0179	0.00122	mg/kg	12.10.14 20.15	U	1
Endrin Ketone	53494-70-5		U	0.00359	0.000202	mg/kg	12.10.14 20.15	U	1
Endrin Aldehyde	7421-93-4		U	0.00359	0.000250	mg/kg	12.10.14 20.15	U	1
Alpha-Chlordane	5103-71-9		U	0.00179	0.000154	mg/kg	12.10.14 20.15	U	1
Gamma-Chlordane	5103-74-2		U	0.00179	0.000303	mg/kg	12.10.14 20.15	U	1
Chlordane	12789-03-6		U	0.0179	0.00500	mg/kg	12.10.14 20.15	U	1
Toxaphene	8001-35-2		U	0.0717	0.0152	mg/kg	12.10.14 20.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	57	%	27-130	12.10.14 20.15	
Decachlorobiphenyl	2051-24-3	95	%	65-149	12.10.14 20.15	

Certificate of Analytical Results 498334

Environmental International Corporation, Alpharetta, GA

GPA - Bainbridge

Sample Id:	**WH3-E4-0'-2'**	Matrix:	Soil	Date Received:	12.05.14 16.45
Lab Sample Id:	498334-011	Date Collected:	12.04.14 17.57	Sample Depth:	0 - 2 ft

Analytical Method:	Organochlorine Pesticides by SW-846 8081B			Prep Method:	SW3545
Tech:	VBR			% Moisture:	15.2
Analyst:	CLAR	Date Prep:	12.09.14 14.30	Basis:	Dry Weight
Seq Number:	957355				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	**0.00134**	0.00196	0.000102	mg/kg	12.10.14 20.35	J	1
Beta-BHC	319-85-7	**0.00852**	0.00196	0.000204	mg/kg	12.10.14 20.35		1
Delta-BHC	319-86-8	**0.000565**	0.00196	0.000228	mg/kg	12.10.14 20.35	J	1
Gamma-BHC (Lindane)	58-89-9	**0.00191**	0.00196	0.000109	mg/kg	12.10.14 20.35	J	1
Heptachlor	76-44-8	U	0.00196	0.000226	mg/kg	12.10.14 20.35	U	1
Aldrin	309-00-2	U	0.00196	0.000123	mg/kg	12.10.14 20.35	UF	1
Heptachlor Epoxide	1024-57-3	U	0.00196	0.000109	mg/kg	12.10.14 20.35	U	1
Endosulfan I	959-98-8	U	0.00196	0.000160	mg/kg	12.10.14 20.35	U	1
Dieldrin	60-57-1	U	0.00392	0.000197	mg/kg	12.10.14 20.35	U	1
4,4-DDE	72-55-9	**0.000898**	0.00392	0.000213	mg/kg	12.10.14 20.35	J	1
Endrin	72-20-8	U	0.00392	0.000198	mg/kg	12.10.14 20.35	U	1
Endosulfan II	33213-65-9	**0.000745**	0.00392	0.000200	mg/kg	12.10.14 20.35	J	1
4,4-DDD	72-54-8	U	0.00392	0.000216	mg/kg	12.10.14 20.35	U	1
Endosulfan Sulfate	1031-07-8	U	0.00392	0.000261	mg/kg	12.10.14 20.35	U	1
4,4-DDT	50-29-3	**0.00416**	0.00392	0.000349	mg/kg	12.10.14 20.35		1
Methoxychlor	72-43-5	U	0.0196	0.00133	mg/kg	12.10.14 20.35	U	1
Endrin Ketone	53494-70-5	**0.00109**	0.00392	0.000221	mg/kg	12.10.14 20.35	J	1
Endrin Aldehyde	7421-93-4	U	0.00392	0.000273	mg/kg	12.10.14 20.35	U	1
Alpha-Chlordane	5103-71-9	U	0.00196	0.000169	mg/kg	12.10.14 20.35	U	1
Gamma-Chlordane	5103-74-2	U	0.00196	0.000331	mg/kg	12.10.14 20.35	U	1
Chlordane	12789-03-6	U	0.0196	0.00547	mg/kg	12.10.14 20.35	U	1
Toxaphene	8001-35-2	U	0.0784	0.0166	mg/kg	12.10.14 20.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	111	%	27-130	12.10.14 20.35	
Decachlorobiphenyl	2051-24-3	147	%	65-149	12.10.14 20.35	

Certificate of Analytical Results 498334

Environmental International Corporation, Alpharetta, GA

GPA - Bainbridge

Sample Id:	**WH3-E4-3'-5'**	Matrix:	Soil	Date Received:	12.05.14 16.45
Lab Sample Id:	498334-012	Date Collected:	12.04.14 19.30	Sample Depth:	3 - 5 ft

Analytical Method:	Organochlorine Pesticides by SW-846 8081B			Prep Method:	SW3545
Tech:	VBR			% Moisture:	20.4
Analyst:	CLAR	Date Prep:	12.09.14 14.30	Basis:	Dry Weight
Seq Number:	957355				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Alpha-BHC	319-84-6	U	0.00209	0.000109	mg/kg	12.10.14 20.55	U	1
Beta-BHC	319-85-7	**0.000611**	0.00209	0.000217	mg/kg	12.10.14 20.55	J	1
Delta-BHC	319-86-8	U	0.00209	0.000243	mg/kg	12.10.14 20.55	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.00209	0.000117	mg/kg	12.10.14 20.55	U	1
Heptachlor	76-44-8	U	0.00209	0.000241	mg/kg	12.10.14 20.55	U	1
Aldrin	309-00-2	U	0.00209	0.000132	mg/kg	12.10.14 20.55	UF	1
Heptachlor Epoxide	1024-57-3	U	0.00209	0.000116	mg/kg	12.10.14 20.55	U	1
Endosulfan I	959-98-8	U	0.00209	0.000171	mg/kg	12.10.14 20.55	U	1
Dieldrin	60-57-1	U	0.00419	0.000210	mg/kg	12.10.14 20.55	U	1
4,4-DDE	72-55-9	U	0.00419	0.000228	mg/kg	12.10.14 20.55	U	1
Endrin	72-20-8	U	0.00419	0.000211	mg/kg	12.10.14 20.55	U	1
Endosulfan II	33213-65-9	U	0.00419	0.000213	mg/kg	12.10.14 20.55	U	1
4,4-DDD	72-54-8	U	0.00419	0.000230	mg/kg	12.10.14 20.55	U	1
Endosulfan Sulfate	1031-07-8	U	0.00419	0.000278	mg/kg	12.10.14 20.55	U	1
4,4-DDT	50-29-3	U	0.00419	0.000372	mg/kg	12.10.14 20.55	U	1
Methoxychlor	72-43-5	U	0.0209	0.00142	mg/kg	12.10.14 20.55	U	1
Endrin Ketone	53494-70-5	U	0.00419	0.000236	mg/kg	12.10.14 20.55	U	1
Endrin Aldehyde	7421-93-4	U	0.00419	0.000291	mg/kg	12.10.14 20.55	U	1
Alpha-Chlordane	5103-71-9	U	0.00209	0.000180	mg/kg	12.10.14 20.55	U	1
Gamma-Chlordane	5103-74-2	U	0.00209	0.000353	mg/kg	12.10.14 20.55	U	1
Chlordane	12789-03-6	U	0.0209	0.00584	mg/kg	12.10.14 20.55	U	1
Toxaphene	8001-35-2	U	0.0837	0.0177	mg/kg	12.10.14 20.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	63	%	27-130	12.10.14 20.55	
Decachlorobiphenyl	2051-24-3	99	%	65-149	12.10.14 20.55	

Certificate of Analytical Results 498334

Environmental International Corporation, Alpharetta, GA

GPA - Bainbridge

Sample Id: **WH3-Auger Rinsate** Matrix: Water Date Received:12.05.14 16.45

Lab Sample Id: 498334-013 Date Collected: 12.04.14 20.07

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

Tech: BRO % Moisture:

Analyst: CLAR Date Prep: 12.09.14 12.50

Seq Number: 957359

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0980	0.00363	ug/L	12.10.14 15.32	U	1
4,4-DDE	72-55-9	U	0.0980	0.00343	ug/L	12.10.14 15.32	U	1
4,4-DDT	50-29-3	U	0.0980	0.00480	ug/L	12.10.14 15.32	U	1
Aldrin	309-00-2	U	0.0490	0.00255	ug/L	12.10.14 15.32	U	1
Alpha-BHC	319-84-6	U	0.0490	0.00990	ug/L	12.10.14 15.32	U	1
Alpha-Chlordane	5103-71-9	U	0.0490	0.00216	ug/L	12.10.14 15.32	U	1
Beta-BHC	319-85-7	U	0.0490	0.00225	ug/L	12.10.14 15.32	U	1
Delta-BHC	319-86-8	U	0.0490	0.00196	ug/L	12.10.14 15.32	U	1
Dieldrin	60-57-1	U	0.0980	0.00422	ug/L	12.10.14 15.32	U	1
Endosulfan I	959-98-8	U	0.0490	0.00235	ug/L	12.10.14 15.32	U	1
Endosulfan II	33213-65-9	U	0.0980	0.00441	ug/L	12.10.14 15.32	U	1
Endosulfan Sulfate	1031-07-8	U	0.0980	0.00686	ug/L	12.10.14 15.32	U	1
Endrin	72-20-8	U	0.0980	0.00451	ug/L	12.10.14 15.32	U	1
Endrin Aldehyde	7421-93-4	U	0.0980	0.00843	ug/L	12.10.14 15.32	U	1
Endrin Ketone	53494-70-5	U	0.0980	0.00441	ug/L	12.10.14 15.32	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0490	0.00157	ug/L	12.10.14 15.32	U	1
Gamma-Chlordane	5103-74-2	U	0.0490	0.00176	ug/L	12.10.14 15.32	U	1
Heptachlor	76-44-8	U	0.0490	0.00284	ug/L	12.10.14 15.32	U	1
Heptachlor Epoxide	1024-57-3	U	0.0490	0.00275	ug/L	12.10.14 15.32	U	1
Methoxychlor	72-43-5	U	0.490	0.0282	ug/L	12.10.14 15.32	U	1
Chlordane	12789-03-6	U	0.490	0.0944	ug/L	12.10.14 15.32	U	1
Toxaphene	8001-35-2	U	2.45	0.415	ug/L	12.10.14 15.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	75	%	27-135	12.10.14 15.32	
Decachlorobiphenyl	2051-24-3	99	%	26-154	12.10.14 15.32	

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

QC Summary 498334

Environmental International Corporation

GPA - Bainbridge

Analytical Method: **Percent Moisture**
Seq Number: 956987 Matrix: Soil
Parent Sample Id: 498233-001 MD Sample Id: 498233-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	31.8	31.8	0	20	%	12.05.14 16:00	

Analytical Method: **Percent Moisture**
Seq Number: 956987 Matrix: Soil
Parent Sample Id: 498334-009 MD Sample Id: 498334-009 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	10.7	10.8	1	20	%	12.05.14 16:00	

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3545
Seq Number: 957355 Matrix: Solid Date Prep: 12.09.14
MB Sample Id: 665627-1-BLK LCS Sample Id: 665627-1-BKS LCSD Sample Id: 665627-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Alpha-BHC	<0.0000871	0.0167	0.0119	71	0.0145	87	43-156	20	30	mg/kg	12.10.14 16:33	
Beta-BHC	<0.000173	0.0167	0.0112	67	0.0129	77	43-155	14	30	mg/kg	12.10.14 16:33	
Delta-BHC	<0.000194	0.0167	0.0130	78	0.0144	86	56-170	10	30	mg/kg	12.10.14 16:33	
Gamma-BHC (Lindane)	<0.0000929	0.0167	0.0118	71	0.0142	85	43-159	18	30	mg/kg	12.10.14 16:33	
Heptachlor	<0.000192	0.0167	0.0116	69	0.0144	86	45-170	22	30	mg/kg	12.10.14 16:33	
Aldrin	<0.000105	0.0167	0.00965	58	0.0137	82	45-151	35	30	mg/kg	12.10.14 16:33	F
Heptachlor Epoxide	<0.0000927	0.0167	0.0122	73	0.0139	83	33-163	13	30	mg/kg	12.10.14 16:33	
Endosulfan I	<0.000136	0.0167	0.0100	60	0.0112	67	57-176	11	30	mg/kg	12.10.14 16:33	
Dieldrin	<0.000168	0.0167	0.0134	80	0.0145	87	48-163	8	30	mg/kg	12.10.14 16:33	
4,4-DDE	<0.000181	0.0167	0.0121	72	0.0132	79	45-187	9	30	mg/kg	12.10.14 16:33	
Endrin	<0.000168	0.0167	0.0147	88	0.0159	95	19-181	8	30	mg/kg	12.10.14 16:33	
Endosulfan II	<0.000170	0.0167	0.0125	75	0.0126	75	58-159	1	30	mg/kg	12.10.14 16:33	
4,4-DDD	<0.000183	0.0167	0.0130	78	0.0129	77	40-176	1	30	mg/kg	12.10.14 16:33	
Endosulfan Sulfate	<0.000222	0.0167	0.0150	90	0.0151	90	29-163	1	30	mg/kg	12.10.14 16:33	
4,4-DDT	<0.000297	0.0167	0.0143	86	0.0146	87	32-178	2	30	mg/kg	12.10.14 16:33	
Methoxychlor	<0.00113	0.0167	0.0164	98	0.0163	98	50-196	1	30	mg/kg	12.10.14 16:33	
Endrin Ketone	<0.000188	0.0167	0.0147	88	0.0147	88	55-185	0	30	mg/kg	12.10.14 16:33	
Endrin Aldehyde	<0.000232	0.0167	0.0133	80	0.0139	83	35-155	4	30	mg/kg	12.10.14 16:33	
Alpha-Chlordane	<0.000143	0.0167	0.0125	75	0.0142	85	66-192	13	30	mg/kg	12.10.14 16:33	
Gamma-Chlordane	<0.000281	0.0167	0.0125	75	0.0142	85	27-138	13	30	mg/kg	12.10.14 16:33	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	98		70		90		27-130	%	12.10.14 16:33
Decachlorobiphenyl	103		100		101		65-149	%	12.10.14 16:33

QC Summary 498334

Environmental International Corporation

GPA - Bainbridge

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3545

Seq Number: 957355 Matrix: Soil Date Prep: 12.09.14

Parent Sample Id: 498334-005 MS Sample Id: 498334-005 S MSD Sample Id: 498334-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Alpha-BHC	0.000221	0.0176	0.0134	75	0.0140	78	43-156	4	30	mg/kg	12.10.14 17:33	
Beta-BHC	0.000800	0.0176	0.0160	86	0.0157	85	43-155	2	30	mg/kg	12.10.14 17:33	
Delta-BHC	<0.000204	0.0176	0.0154	88	0.0172	98	56-170	11	30	mg/kg	12.10.14 17:33	
Gamma-BHC (Lindane)	<0.0000981	0.0176	0.0131	74	0.0146	83	43-159	11	30	mg/kg	12.10.14 17:33	
Heptachlor	<0.000203	0.0176	0.0127	72	0.0128	73	45-170	1	30	mg/kg	12.10.14 17:33	
Aldrin	<0.000111	0.0176	0.0127	72	0.0125	71	45-151	2	30	mg/kg	12.10.14 17:33	
Heptachlor Epoxide	<0.0000979	0.0176	0.0135	77	0.0135	77	33-163	0	30	mg/kg	12.10.14 17:33	
Endosulfan I	<0.000144	0.0176	0.0110	63	0.0109	62	57-176	1	30	mg/kg	12.10.14 17:33	
Dieldrin	<0.000177	0.0176	0.0146	83	0.0144	82	48-163	1	30	mg/kg	12.10.14 17:33	
4,4-DDE	0.000726	0.0176	0.0155	84	0.0147	79	45-187	5	30	mg/kg	12.10.14 17:33	
Endrin	<0.000177	0.0176	0.0171	97	0.0167	95	19-181	2	30	mg/kg	12.10.14 17:33	
Endosulfan II	0.000214	0.0176	0.0131	73	0.0128	72	58-159	2	30	mg/kg	12.10.14 17:33	
4,4-DDD	<0.000194	0.0176	0.0150	85	0.0143	81	40-176	5	30	mg/kg	12.10.14 17:33	
Endosulfan Sulfate	0.000253	0.0176	0.0150	84	0.0152	85	29-163	1	30	mg/kg	12.10.14 17:33	
4,4-DDT	0.00255	0.0176	0.0191	94	0.0174	84	32-178	9	30	mg/kg	12.10.14 17:33	
Methoxychlor	<0.00119	0.0176	0.0256	145	0.0198	113	50-196	26	30	mg/kg	12.10.14 17:33	
Endrin Ketone	<0.000199	0.0176	0.0150	85	0.0148	84	55-185	1	30	mg/kg	12.10.14 17:33	
Endrin Aldehyde	0.000319	0.0176	0.0145	81	0.0142	79	35-155	2	30	mg/kg	12.10.14 17:33	
Alpha-Chlordane	<0.000151	0.0176	0.0146	83	0.0143	81	66-192	2	30	mg/kg	12.10.14 17:33	
Gamma-Chlordane	<0.000297	0.0176	0.0145	82	0.0143	81	27-138	1	30	mg/kg	12.10.14 17:33	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	75		74		11-114	%	12.10.14 17:33
Decachlorobiphenyl	97		96		32-145	%	12.10.14 17:33

QC Summary 498334

Environmental International Corporation

GPA - Bainbridge

Analytical Method: **TCLP Pesticides by SW-846 1311/8081B** Prep Method: SW3510C
Seq Number: 957359 Matrix: Water Date Prep: 12.09.14
MB Sample Id: 665578-1-BLK LCS Sample Id: 665578-1-BKS LCSD Sample Id: 665578-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Alpha-BHC	<0.0101	0.500	0.341	68	0.400	80	24-141	16	30	ug/L	12.10.14 13:51	
Beta-BHC	<0.00230	0.500	0.362	72	0.413	83	12-162	13	30	ug/L	12.10.14 13:51	
Delta-BHC	<0.00200	0.500	0.422	84	0.468	94	19-147	10	30	ug/L	12.10.14 13:51	
Gamma-BHC (Lindane)	<0.00160	0.500	0.362	72	0.432	86	23-143	18	30	ug/L	12.10.14 13:51	
Heptachlor	<0.00290	0.500	0.365	73	0.424	85	20-142	15	30	ug/L	12.10.14 13:51	
Aldrin	<0.00260	0.500	0.360	72	0.418	84	11-131	15	30	ug/L	12.10.14 13:51	
Heptachlor Epoxide	<0.00280	0.500	0.382	76	0.425	85	32-134	11	30	ug/L	12.10.14 13:51	
Endosulfan I	<0.00240	0.500	0.318	64	0.347	69	20-135	9	30	ug/L	12.10.14 13:51	
Dieldrin	<0.00430	0.500	0.413	83	0.443	89	35-140	7	30	ug/L	12.10.14 13:51	
4,4-DDE	<0.00350	0.500	0.409	82	0.435	87	18-147	6	30	ug/L	12.10.14 13:51	
Endrin	<0.00460	0.500	0.467	93	0.497	99	36-158	6	30	ug/L	12.10.14 13:51	
Endosulfan II	<0.00450	0.500	0.366	73	0.376	75	34-122	3	30	ug/L	12.10.14 13:51	
4,4-DDD	<0.00370	0.500	0.404	81	0.410	82	20-152	1	30	ug/L	12.10.14 13:51	
Endosulfan Sulfate	<0.00700	0.500	0.428	86	0.430	86	41-145	0	30	ug/L	12.10.14 13:51	
4,4-DDT	<0.00490	0.500	0.449	90	0.455	91	18-164	1	30	ug/L	12.10.14 13:51	
Methoxychlor	<0.0288	0.500	0.480	96	0.476	95	36-169	1	30	ug/L	12.10.14 13:51	
Endrin Ketone	<0.00450	0.500	0.427	85	0.426	85	42-134	0	30	ug/L	12.10.14 13:51	
Endrin Aldehyde	<0.00860	0.500	0.390	78	0.389	78	28-135	0	30	ug/L	12.10.14 13:51	
Alpha-Chlordane	<0.00220	0.500	0.412	82	0.450	90	37-135	9	30	ug/L	12.10.14 13:51	
Gamma-Chlordane	<0.00180	0.500	0.411	82	0.451	90	25-112	9	30	ug/L	12.10.14 13:51	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	100		63		69		27-135	%	12.10.14 13:51
Decachlorobiphenyl	99		100		99		26-154	%	12.10.14 13:51

XENCO LABORATORIES

XENCO LABORATORIES
CHAIN OF CUSTODY

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Environmental International Corp.	Receiver's Initials/Temp: [signature] / 5.4
Address: 161 Kimball Bridge Rd.	Custody Seal(s): [signature] Y (N) Lab Work Order # 498334
Results Sent to: asanders@eicusa.com	P.O.# (if required):
Email address: Alan Sanders	Field Comments / Lab Precautions:
Contact Phone #: 770-772-7100 ~~Cell#:~~ ext. 225	
Project Name (Site): GPA - Bainbridge	
Project Number (ID): (a.d.) 400007	Container Type: GA GC GC
Regulatory Program: VRP	Chemical Preservation Code:
Sampler(s): (signature) Alan Sanders	Sampler(s): (printed) Alan Sanders

Analysis Requested

Line No.	Sample ID # (a.d.) Liquid IDW / Soil 1 IDW / Soil 2 IDW	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	8081B/3660B	1311/8081B/3660B	8081B/3660B
1	MW-24 ~~Soil 1 IDW~~	N/A	12/4/14 8:32	L		X	1	X		
2	MW-24 (a.d.) ~~Soil 2 IDW~~	N/A	12/4/14 8:59	SD	X	~~X~~ (a.d.)			X	~~[illegible]~~ (a.d.)
3	MW-24 (a.d.) ~~Liquid IDW~~	N/A	12/4/14 9:26	SD	X	~~X~~ (a.d.)			X	
4	MW-24 Soil Rinsate	N/A	12/4/14 9:43	W		X	1	X		
5	WH3-E1-0'-2'	0'-2'	12/4/14 14:24	S		X	1			X
6	WH3-E1-3'-5'	3'-5'	12/4/14 14:51	S		X	1			X
7	WH3-E2-0'-2'	0'-2'	12/4/14 15:20	S		X	1			X
8	WH3-E2-3'-5'	3'-5'	12/4/14 15:52	S		X	1			X
9	WH3-E3-0'-2'	0'-2'	12/4/14 16:31	S		X	1			X
10	WH3-E3-3'-5'	3'-5'	12/4/14 17:00	S		X	1			X

Note: composite samples Soil 1 IDW and Soil 2 IDW before running analysis

1) Relinquished By: [signature] Date / Time 12/5/14 (as) 15:09	2) Received By: [signature] Date / Time 12/5/14 (15:10)	Delivered by: (Circle One) Fed Ex / UPS / Courier / Lab Pickup / Hand / Other
3) Relinquished By: [signature] Date / Time 12/5/14 1645	4) Received By: [signature] Date / Time 12/05/14 16:45	Turnaround ~~Time (business days)~~ TAT Starts when samples are rec'd by 2PM
5) Relinquished By: Date / Time	6) Received By: Date / Time	X 10 Days ; ___5-7 Days; ___3 Days ___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)

Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH

Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

XENCO LABORATORIES
CHAIN OF CUSTODY

XENCO LABORATORIES
6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Environmental International Corp.	Receiver's Initials/Temp: CH / 5.7
Address: 161 Kimball Bridge Rd.	Custody Seal(s): (Y) (N) Lab Work Order # 498334
Results Sent to: Alan Sanders	P.O.# (if required):
Email address: asanders@eicusa.com	Field Comments / Lab Precautions:
Contact Phone #: 770-772-7100, ext. 225 Cell#:	
Project Name (Site): GPA - Bainbridge	**Analysis Requested**
Project Number (ID): 400007	Container Type: GA GC
Regulatory Program: VRP	Chemical Preservation Code:

Sampler(s): (signature)	Sampler(s): (printed)
Alan Sanders	Alan Sanders

Line No.	Sample ID # (Unique)	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	8081B/3660B	8081B/3660B
1	WH3-E4-0'-2'	0'-2'	12/4/14 17:57	S		X	1		X
2	WH3-E4-3'-5'	3'-5'	12/4/14 19:30	S		X	1		X
3	WH3-Angle Rinsate	N/A	12/4/14 20:07	W		X	1	X	
4									
5									
6									
7									
8									
9									
10									

1) Relinquished By: Alan Sanders	Date / Time 12/5/2014 15:09	2) Received By:	Date / Time 12/5/14 1510
3) Relinquished By:	Date / Time 12/5/2014 1645	4) Received By:	Date / Time 12/05/14 16:45
5) Relinquished By:	Date / Time	6) Received By:	Date / Time

Delivered by: (Circle One)
Fed Ex / UPS / Courier / Lab Pickup / Hand / Other

Turnaround Time (business days)
TAT Starts when samples are rec'd by 2PM
X 10 Days ; ___5-7 Days; ___3 Days
___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)

Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH

Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Florida Testing Services, LLC

Client: Environmental International Corporation

Date/ Time Received: 12/05/2014 04:45:00 PM

Work Order #: 498334

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)?	5.4
#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**
#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? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	**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#:

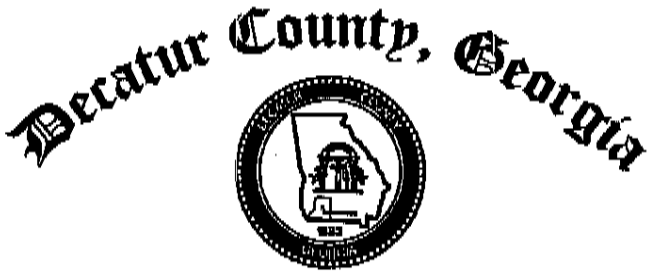
Checklist completed by: Dario Lagunas Date: 12/05/2014

Checklist reviewed by: Eben Buchanan Date: 12/05/2014

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

FIFTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT C1
WASTE ACCEPTANCE AND AGREEMENT FORM



COMMISSIONERS OF DECATUR COUNTY
P.O. Box 726
Bainbridge, Georgia 39818-0726
229-248-3030 Fax 246-2062

TO: Raj Mahadevaiah

FROM: Suzanne Brandt, Decatur County, GA

DATE: 11/26/13

FAX #: 770-772-0555

Account No. _____
(Assigned by Landfill)

Decatur County Solid Waste Disposal Facility
P.O. Box 726
Bainbridge, Georgia 39818
Solid Waste Director: John Simmons
Email: john.simmons@bellsouth.net
Phone: (229) 248-3030 **Fax:** (229) 246-2062

WASTE ACCEPTANCE APPLICATION AND AGREEMENT

The Decatur County Solid Waste Disposal Facility accepts only non-hazardous waste

This Waste Acceptance Application and Agreement is entered into this 20th day of November, 2013, by and between Georgia Ports Authority (hereinafter "Generator") and Decatur County Solid Waste Disposal Facility (hereinafter the "Landfill").

For and in consideration of the mutual promises and covenants set forth herein, the receipt and adequacy of which is hereby acknowledged, the parties hereto agree as follows.

1. Project "Working" Name: GPA Non-Hazardous Waste Disposal
Generator's Contact Person: Natalie Dawn
Address: Georgia Ports Authority P.O. Box 2406, Savannah GA 31402
Telephone: 912-963-5595 Fax: 912-964-3918 E-Mail: _____

2. Agent or Consultant Arranging for Disposal (If other than Generator):
Environmental International Corporation
Contact Person: Raj Mahadevaiah
Address: 161 Kimball Bridge Rd., Alpharetta GA 30009
Telephone: 770-772-7100 Fax: 770-772-0555 E-Mail: RajMahadevaiah@eicusa.com

3. Description of Waste: Non-Hazardous Soil
Source / Location of Waste: Georgia Ports Authority, Bainbridge Terminal
Estimated Quantity of Waste: 10 Tons or _____ Cubic Yards
Frequency of Disposal: Regular [ ] One-Time [✓] Other _____
Delivery Method: Bulk [✓] Drum [ ] Other _____
Note: All material must be able to pass the standard paint filter test for free liquid content.

4. This Application and Agreement must have attached all necessary laboratory test results to demonstrate any waste material proposed for disposal is classified as non-hazardous by U.S. Environmental Protection Agency (EPA) and the Georgia Environmental Protection Division (EPD). An adequate number of representative samples shall be tested to demonstrate the entire quantity to be disposed has been effectively evaluated. Updated analysis of the material is required only if the associated test data is older than two (2) years. For **petroleum contaminated soil**, the test report should at a minimum provide analysis results for TPH and/or BTEX. If leaded fuels are a probability, a TCLP for Lead may be asked for. For **all other materials**, the

GENERATOR'S CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. To the best of my knowledge, the material described above is classified as non-hazardous waste under current state and federal laws and regulations, and I agree to notify the Landfill if such classification changes. The attached information provided is true and accurate to the best of my knowledge."

GENERATOR or AGENT

By: _____

Name Printed: Christopher B. Novack, P.E.

Title: Director, Engineering & Facilities Ma

Date: 11/20/13

DECATUR COUNTY SOLID WASTE DISPOSAL FACILITY

By: _____

Name Printed: SUZANNE H. BRANDT

Title: Director of Environmental and Public Svcs.

Date: 11/26/2013

To be completed by Landfill Staff.

Tipping Fee (Dollars Per Ton): $18 Suitable for Daily Cover? Yes No X

Material received: _____ Begin Ticket: _____ Last Ticket: _____

Placed in Cell: _____ Lift: _____

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

FIFTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT C2
IDW SOIL MANIFEST

Decatur County, GA Non-Hazardous Manifest

Please print or type

1. Generator's US EPA ID No.	2. Manifest Document Number

3. Generator's Name and Mailing Address
GPA 1321 SPRING CREEK RD, BAINBRIDGE, GA 39817

4. Generator's Phone 229-248-2402

State Generator's ID Number

5. Transporter Company Name	6. US EPA ID Number
State Transporter ID Number	Transporter Phone

7. Designated Facility Name and Site Address	8. State Facility's ID
Decatur County Solid Waste Facility	9. US EPA ID Number
Highway 27 South	10. Facility's Phone
Attapulgus, GA	229-465-3188

11. Description of Waste Materials	12. Containers Number	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	Misc. Notes
NON-hazardous Soil	1	roll off	2.04 Tons		~4.5 tons

Additional Descriptions for Materials Listed Above
Landfill ✓ Solidification _____
Bio Remediation _____

Disposal Location
Cell 3 Level 7
Grid _____

15. Special Handling Instructions and Additional Information
CONTACT:
Purchase Order # Emergency Contact:

16. GENERATOR'S CERTIFICATION: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Printed/Typed Name	Signature "On Behalf Of"	Mo/Day/Year
KENNETH SLATER	Kenneth Slater	1-14-15

17. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo/Day/Year
Chris Taylor		1-14-15

18. Certificate of Final Treatment/Disposal: I certify, on behalf of the above-listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on dates listed above.

19. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed/Typed Name	Signature	Mo/Day/Year
		1-14-15

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

FIFTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT C3
IDW SOIL LANDFILL WEIGHT TICKET

DECATUR COUNTY LANDFILL
BOARD OF COMMISSIONERS
P.O. BOX 726
BAINBRIDGE GA,39818

TICKET#: 192479
ORIGINAL
OPERATOR: Bill
IN: 09:56:02 AM

1/14/2015

HAULER: TAYLOR WASTE
TRUCK: ROLLOFF
CUSTOMER: CASH CUSTOMER
CASH

GROSS Lbs: 36,880.00
TARE Lbs: 32,800.00
NET Lbs: 4,080.00
MANUAL
Cash

MATERIAL CODE/DESCRIPTION	QUANTITY	MEASURE	RATE	AMOUNT
54 - contaminated soil	2.04	TONS	$18.00	$36.72

INFO: 1 load
1-14-15

Product Total: $36.72
Total Fees: $0.00
Total Taxes: $0.00
Total Cost: $36.75

Have a nice day. The Landfill speed limit is 10 mph at all times.
PLEASE TARP YOUR LOAD BEFORE COMING TO THE LANDFILL. decaturcolf@tds.net
Office (229)-465-3188 Fax (229)-465-3194

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

FIFTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT D1
IDW WATER MANIFEST

Aqua-Terra
Recycling and Treatment

710 Moore Street • P.O. Box 98
Oxford, Georgia 30054
Phone: (678) 625-4025
Fax: (678) 625-4944

NON-HAZARDOUS WASTE MANIFEST

N 8351

Section I GENERATOR (Generator completes all of Section 1)

a. Generator Name: GPA
b. Address: 1321 Spring Creek Road
Bainbridge, GA 39817
c. Phone No.:
If owner generating facility differs from the generator, provide:
d. Owner's Name:
e. Description of Waste: Ground Water

g. Generating Location:
h. Address:
i. Phone No.:
j. Owner's Phone No.:

Quantity	Gallons	Type
~~400~~ 483 DCB	☒	T

TYPE
DM - METAL DRUM
DP - PLASTIC DRUM
T - TRUCK

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

KENNETH SLATER — Generator Authorized Agent Name
[signature] — Signature
011415 — Shipping Date

Section II TRANSPORTER (Generator completes a-d: Transporter I completes e-g: Transporter II completes h-n)

a. Name: **Aqua-Terra**
b. Address: **710 Moore Street**
Oxford, Georgia 30054
c. Drive Name/Title: Troy Womack
d. Phone No.: (678) 625-4025 e: Truck No.: TK1
f. Vehicle License No/State:
Acknowledgment of Receipt of Materials.
g. [signature] — Driver Signature
011415 — Shipping Date

h. Name:
i. Address:
j. Drive Name/Title:
k. Phone No.: l: Truck No.:
m. Vehicle License No/State:
Acknowledgment of Receipt of Materials.
n. — Driver Signature
Shipping Date

Section III DESTINATION

a. Site Name: **Aqua-Terra**
b. Physical Address: **710 Moore Street**
Oxford, Georgia 30054
c. Phone No.: (678) 625-4025
d. Mailing Address:. **P.O. Box 98**
Oxford, Georgia 30054
e. Discrepancy Indication Space:

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

David C. Bellah — Name of Authorized Agent
[signature] — Signature
011415 — Shipping Date

WHITE - DESTINATION YELLOW - TRANSPORTERS

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

FIFTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT D2
IDW WATER CERTIFICATE OF TREATMENT

Aqua-Terra
Recycling and Treatment

CERTIFICATE OF TREATMENT AND DISPOSAL

The following non-hazardous wastewater was received at Aqua-Terra Recycling & Treatment's facility in Oxford, Georgia on January 14, 2015.

Four Hundred Eighty Three (483) gallons of petroleum contact water was treated from:

Generator location: 1321 Spring Creek Road in Bainbridge, Georgia

The water was treated by a six step process that includes air stripping and biological degradation. Treated water was discharged to the Newton County sanitary sewer system in accordance with Aqua-Terra Recycling & Treatment's Industrial Wastewater Discharge Permit No. 006.

Tammy Neal
CEO

1/14/2015
Date

aquaterrarecycling.com • P.O. Box 98 • Oxford Georgia 30054
Office: 678-625-4025 • Cell: 770-823-2382 • Fax: 678-625-4944

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

FIFTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT E1
IDW DRUMS MANIFEST

Aqua-Terra
Recycling and Treatment

710 Moore Street • P.O. Box 98
Oxford, Georgia 30054
Phone: (678) 625-4025
Fax: (678) 625-4944

NON-HAZARDOUS WASTE MANIFEST

No. 8352

Section I — GENERATOR (Generator completes all of Section 1)

a. Generator Name: GPA
b. Address: 1321 Spring Creek Road
Bainbridge, GA 39817
c. Phone No.:
If owner generating facility differs from the generator, provide:
d. Owner's Name:
e. Description of Waste: Empty metal Drums

g. Generating Location:
h. Address:
i. Phone No.:
j. Owner's Phone No.:

Quantity	Gallons	Type
10		DM

TYPE
DM - METAL DRUM
DP - PLASTIC DRUM
T - TRUCK

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

KENNETH SLATER — Generator Authorized Agent Name
Signature
01/14/15 — Shipping Date

Section II — TRANSPORTER (Generator completes a-d: Transporter I completes e-g: Transporter II completes h-n)

a. Name: **Aqua-Terra**
b. Address: **710 Moore Street**
Oxford, Georgia 30054
c. Drive Name/Title: Stacy Taylor
d. Phone No.: (678) 625-4025 e: Truck No.: TK2
f. Vehicle License No/State:
Acknowledgment of Receipt of Materials.
g. S. T. — Driver Signature
01/14/15 — Shipping Date

h. Name:
i. Address:
j. Drive Name/Title:
k. Phone No.: l: Truck No.:
m. Vehicle License No/State:
Acknowledgment of Receipt of Materials.
n. Driver Signature
Shipping Date

Section III — DESTINATION

a. Site Name: **Aqua-Terra**
b. Physical Address: **710 Moore Street**
Oxford, Georgia 30054
e. Discrepancy Indication Space:

c. Phone No.: (678) 625-4025
d. Mailing Address: **P.O. Box 98**
Oxford, Georgia 30054

I hereby certify that the above material has been accepted and to the best of my knowledge the foregoing is true and accurate.

David C. Bellah — Name of Authorized Agent
Signature
01/14/15 — Shipping Date

TK2

WHITE - DESTINATION YELLOW - TRANSPORTERS

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

FIFTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT E2
IDW DRUMS CERTIFICATE OF DESTRUCTION

LB Recycling & Waste Services
8194 Washington St SW
Covington, GA 30014
770-786-5119

Aqua-Terra Recycling
PO Box 98
Oxford, GA 30054
678-625-4025

January 14, 2015

RE: Letter of Destruction

This letter is a written guarantee that 520 lbs of scrap 55-gallon drums were delivered to our facility from Aqua-Terra Recycling. Our only purpose is to separate the various types of materials to recover the best value based solely on their scrap metal content. The scrap metal is all that we deal in. Our company does not engage in selling equipment whole or partial to any third party. We also do not allow any person or company to inspect, sketch or photograph the equipment once it leaves your facility.

We processed the scrap metal within 72 hours of collection.

Anthony J. Maddox
LB Recycling & Waste Services

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

FIFTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT F
MARCH 2015 WELL PURGING AND SAMPLING FIELD LOGS

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

PAGE 1 OF 1

WELL/SAMPLE NO: MW-1

DATE: 3-3-15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: 70°F Clear light 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): 26.11 FT. | TIME: 10:12 | BTOC WELL SCREEN INTERVAL: 22.01 FT. to 32.01 FT.

MEASURED TOTAL WELL DEPTH (BGS): 32.51 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 32.80 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

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.)
10:28	0	18.97	3.28	318	0.424	0.0	3.98	26.12	Clear
10:33	740	18.72	3.25	324	0.449	0.0	3.49	26.12	
10:38	1360	18.69	3.19	336	0.462	0.0	3.27	26.12	
10:44	2260	18.75	3.19	340	0.547	0.0	3.00	26.12	
10:49	2820	18.77	3.19	343	0.510	0.0	2.85	26.12	
10:54	3520	18.87	3.13	348	0.505	0.0	2.70	26.12	
10:59	3900	18.94	3.06	354	0.508	0.0	2.65	26.12	

620
10:54
1700

COMMENTS:

SAMPLE COLLECTION TIME: 11:03

PREPARED BY: SHCuy

* 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.)	33
Initial tubing depth (ft.) BTOC	29
Final tubing depth (ft.) BTOC	29.
Initial pump speed	5.08
Time pump speed was initialized	10:21
Pump speed at flow into cylinder	5.04
Started new roll of tubing at	—
Three well volume (mL)	—

~~30~~ + 2

2,000 mL volume poured into bucket:

Time	9:43								
Cummulative Volume (mL)	2200								

Additional remarks:

0.041

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-1A

DATE: 3-3-15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: 75°F Clear Low 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): 26.22 FT. | TIME: 11:25 | BTOC WELL SCREEN INTERVAL: 25.85 FT. to 35.85 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 33.96 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 36.81 ✓ 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

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.)
11:44	0	21.07	3.12	326	0.842	4.5	2.57	26.22	
11:49	660	20.18	3.13	331	0.805	0.0	1.85	26.22	
11:54	1300	20.14	3.13	332	0.747	0.0	1.81	26.22	
11:59	2100	20.06	3.14	336	0.714	0.0	1.83	26.22	
12:04	2700	20.02	3.15	334	0.714	0.0	1.80	26.22	

COMMENTS:

SAMPLE COLLECTION TIME: 12:07

PREPARED BY: SWelmig

* 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.)	36
Initial tubing depth (ft.) BTOC	32
Final tubing depth (ft.) BTOC	32
Initial pump speed	5.02
Time pump speed was initialized	11:39
Pump speed at flow into cylinder	5.02
Started new roll of tubing at	—
Three well volume (mL)	—

32

2,000 mL volume poured into bucket:

Time	12:00								
Cummulative Volume (mL)	2200								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-2

DATE: 3/2/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Cloudy 75°F

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): 14.88 FT. | TIME: 15:40 | BTOC WELL SCREEN INTERVAL: 15.85 FT. to 25.85 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): FT. | MEASURED TOTAL WELL DEPTH (BTOC) 29.2 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

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.)
16:10	0	19.45	6.17	160	0.068	0.0	4.43	19.98	
16:15	1680	18.54	3.83	271	0.057	0.0	3.66	19.98	
16:20	3360	18.43	3.98	272	0.060	0.0	3.04	19.98	
16:25	4800	18.43	4.19	265	0.062	0.0	3.30	19.98	
16:30	6480	18.44	4.17	270	0.063	0.0	2.75	19.98	
16:35	8000	18.38	4.14	275	0.066	0.0	2.58	19.98	

COMMENTS:

SAMPLE COLLECTION TIME: 16:37

PREPARED BY: David Vargas

* 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	9.1
Time pump speed was initialized	16:08
Pump speed at flow into cylinder	9.1
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	16:16	16:22	16:28	16:34					
Cummulative Volume (mL)	2000	4000	6000	8000					

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-3

DATE: 7-7-15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: 62°F Foggy Mostly

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): 19.13 FT. | TIME: 8:09 | BTOC WELL SCREEN INTERVAL: 17.83 FT. to 27.83 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 25.0 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 27.32 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

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.)
8:26	0	14.86	4.53	250	0.075	0.0	8.15	18.18	Clear
8:31	800	15.94	4.50	256	0.074	0.0	7.23	18.17	
8:36	1600	16.12	4.50	663	0.075	0.0	6.98	18.17	
8:41	2500	16.31	4.49	665	0.077	0.0	7.00	18.17	

COMMENTS: | SAMPLE COLLECTION TIME: 8:44

PREPARED BY: S Heimly

* 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.)	27.5
Initial tubing depth (ft.) BTOC	23.5
Final tubing depth (ft.) BTOC	23.5
Initial pump speed	5.05
Time pump speed was initialized	8:21
Pump speed at flow into cylinder	5.05
Started new roll of tubing at	—
Three well volume (mL)	—

+ 2 feet

2,000 mL volume poured into bucket:

Time	8:39								
Cummulative Volume (mL)	2200								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

DATE: 3-3-15	PROJECT NAME: GPA Bainbridge	WELL/SAMPLE NO: MW-4U
WEATHER CONDITIONS: 65°F Clear Normal		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: 16.00 FT. to 31.00 FT.

INITIAL WATER LEVEL (BTOC): 24.52 FT. TIME: 9:10 — BTOC WELL SCREEN INTERVAL: 18.05 FT. to 33.05 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 33.05 FT. — MEASURED TOTAL WELL DEPTH (BTOC) 32.38 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

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.)
9:26	0	16.80	3.60	297	0.284	0.0	5.95	24.52	
9:31	640	17.44	3.55	313	0.292	0.0	5.20	24.48	24.52 sl
9:36	1280	17.70	3.52	321	0.285	0.0	4.87	24.52	
9:41	1760	17.84	3.48	325	0.289	0.0	4.80	24.52	

COMMENTS:

SAMPLE COLLECTION TIME: 9:45

PREPARED BY: S HIPsley

* 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.)	33
Initial tubing depth (ft.) BTOC	29
Final tubing depth (ft.) BTOC	29
Initial pump speed	5.08
Time pump speed was initialized	9:20
Pump speed at flow into cylinder	5.03
Started new roll of tubing at	—
Three well volume (mL)	—

12

2,000 mL volume poured into bucket:

Time	9:42								
Cummulative Volume (mL)	2000								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-5A

DATE: 3-5-15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Cloudy, light wind with gusts, 48°F

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): 17.73 FT. | TIME: 11:24 | BTOC WELL SCREEN INTERVAL: 16.20 FT. to 26.20 FT.

MEASURED TOTAL WELL DEPTH (BGS): 27.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 27.82 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

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.)
11:39	0	23.71	3.37	228	1.51	0.0	2.45	17.74	
11:40	900	23.26	3.30	245	1.57	0.0	1.27	17.74	
11:45	1720	23.16	3.26	251	1.52	0.0	1.22	17.74	
11:50	2380	23.37	3.49	239	1.43	0.0	1.02	17.74	
11:56	3360	22.75	3.36	250	1.17	0.0	2.95	17.72	
12:01	4040	22.63	3.58	230	1.10	0.0	3.17	17.73	
12:05	4980	22.69	3.44	241	1.09	0.0	3.33	17.72	
12:12	5780	22.73	3.25	261	1.02	0.0	3.25	17.72	
12:17	6920	22.69	3.51	247	1.07	0.0	3.41	17.73	
12:22	8000	22.64	3.37	252	1.07	0.0	3.57	17.73	
12:29	9540	22.72	3.25	264	1.06	0.0	3.57	17.74	
12:34	10980	22.65	3.42	255	1.07	0.0	3.29	17.74	
12:39	12,540	22.62	3.56	247	1.07	0.0	3.35	17.74	
12:44	14,020	22.58	3.51	248	1.07	0.0	3.34	17.74	
12:49	15,440	22.57	3.25	266	1.07	0.0	3.53	17.74	V= 15,040
12:54	17060	22.51	3.33	251	1.07	0.0	3.37	17.74	

1780

COMMENTS:

SAMPLE COLLECTION TIME: 12:57

PREPARED BY: Sherry

* 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.)	24.5
Initial tubing depth (ft.) BTOC	22.5
Final tubing depth (ft.) BTOC	22.5
Initial pump speed	5.01
Time pump speed was initialized	11:31
Pump speed at flow into cylinder	5.12
Started new roll of tubing at	—
Three well volume (mL)	~17,000

+2

Increase pump speed to 7.16 at 12:12

Brown Sm on Horiba

Increase pump speed to 9.02 at 12:30

2,000 mL volume poured into bucket:

Time	11:47	12:00	12:13	12:22	12:30	12:37	12:44	12:50	
Cummulative Volume (mL)	2000	4000	6000	8000	10,000	12000	14000	16000	

Additional remarks: Sample Collected with 3 well volume reading

Bolt Plant broken, one stripped + need new VAM th

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-5D

DATE: 3/5/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: 65°F Rainy

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): 17.18 FT. | TIME: 14:25 | BTOC WELL SCREEN INTERVAL: 14.80 FT. to 24.80 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 25.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 24.88 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

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.)
14:37	0	22.87	3.38	266	1.82	0.0	4.91	17.18	
14:41	800	22.23	3.30	274	2.00	0.0	1.70	17.19	
14:47	1640	21.84	3.23	279	2.01	0.0	1.30	17.18	
14:52	2540	21.60	3.17	284	2.03	0.0	1.25	17.18	
14:57	3340	21.45	3.17	286	2.04	0.0	1.30	17.18	

COMMENTS:

SAMPLE COLLECTION TIME: 15:20

PREPARED BY: David Vargas

* 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	~~25~~ 21
Final tubing depth (ft.) BTOC	21
Initial pump speed	5.04
Time pump speed was initialized	14:33
Pump speed at flow into cylinder	5.04
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	14:44								
Cummulative Volume (mL)	2000								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-6

DATE: 3-4-15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: 78°F Mostly clear, NO 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): 23.29 FT. | TIME: 1715 | BTOC WELL SCREEN INTERVAL: 46.80 FT. to 51.80 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 52.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 51.81 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

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.)
16:10	0	25.83	6.64	-15	1.24	54.0	1.65	23.83	black, particulate
16:15	680	24.52	6.02	14	1.32	23.9	1.00	24.05	
16:20	1360	23.85	5.71	33	1.40	5.2	0.82	24.12	bubbly
16:25	2100	23.32	5.98	14	1.47	15.9	0.60	24.16	
16:30	2720	23.22	5.94	16	1.51	16.7	0.61	24.16	
16:35	3460	23.04	5.73	30	1.55	15.3	0.56	24.16	
16:40	4020	22.68	5.82	23	1.57	20.4	0.51	24.16	
16:45	4700	22.54	5.82	28	1.58	22.5	0.51	24.16	
16:50	5340	22.71	5.64	41	1.59	25.8	0.49	24.14	
16:55	5206	22.56	5.60	46	1.61	31.8	0.46	24.14	
17:00	6600	22.52	5.69	43	1.61	2.7	0.45	24.14	

COMMENTS:

SAMPLE COLLECTION TIME: 17:02

PREPARED BY: Shelly

* 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	5.09
Time pump speed was initialized	16:05
Pump speed at flow into cylinder	5.11
Started new roll of tubing at	Yes
Three well volume (mL)	—

+2

22 feet leftover
Stored for future use

2,000 mL volume poured into bucket:

Time	16:24	16:39	16:56						
Cummulative Volume (mL)	2000	4000	6200						

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-7

DATE: 3/4/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: 70°F Partly Cloudy

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): 18.69 FT. | TIME: 13:04 | BTOC WELL SCREEN INTERVAL: 14.50 FT. to 25.50 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 22.14 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 22.25 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

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.)
13:17	0	24.97	3.95	261	0.507	0.0	1.92	18.71	some particulate
13:22	720	24.67	3.90	291	0.513	0.0	1.34	18.71	in first pail
13:27	1460	24.30	7.89	286	0.517	0.0	1.25	18.71	
13:32	2200	23.72	7.91	288	0.529	0.0	1.25	18.71	

COMMENTS:

SAMPLE COLLECTION TIME: 13:26

PREPARED BY: S Hickey

* 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.)	~~20.5~~ +2 22.5 +2
Initial tubing depth (ft.) BTOC	~~18.5~~ 20.5
Final tubing depth (ft.) BTOC	2
Initial pump speed	5.02
Time pump speed was initialized	13:13
Pump speed at flow into cylinder	4.98
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	13:39								
Cummulative Volume (mL)	2000								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

DATE: 3-5-15	PROJECT NAME: GPA Bainbridge	WELL/SAMPLE NO: MW-8
WEATHER CONDITIONS: Overcast light wind 65°F		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): 14.64 FT. TIME: 9:45 — BTOC WELL SCREEN INTERVAL: 11.70 FT. to 22.70 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 23.00 FT. — MEASURED TOTAL WELL DEPTH (BTOC) 21.96 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

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.)
9:57	0	20.73	3.27	201	1.21	0.0	3.42	14.54	
10:02	800	21.14	3.30	226	1.23	0.0	1.92	14.64	
10:07	1600	21.50	3.29	236	1.22	0.0	1.48	14.64	
10:12	2400	21.74	3.25	244	1.22	0.0	1.31	14.64	

COMMENTS:

SAMPLE COLLECTION TIME: 10:15

PREPARED BY: SHelmy

* 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.)	23 +1
Initial tubing depth (ft.) BTOC	19
Final tubing depth (ft.) BTOC	19
Initial pump speed	501
Time pump speed was initialized	9:54
Pump speed at flow into cylinder	501
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	10:09								
Cummulative Volume (mL)	2000								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

DATE: 3/5/15	PROJECT NAME: GPA Bainbridge	WELL/SAMPLE NO: MW-10
WEATHER CONDITIONS: 65°F little/no rain, cloudy		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: 20.00 FT. to 30.00 FT.

INITIAL WATER LEVEL (BTOC): 20.75 FT. TIME: 15:20 — BTOC WELL SCREEN INTERVAL: 20.10 FT. to 30.10 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 30.00 FT. — MEASURED TOTAL WELL DEPTH (BTOC) 30.75 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

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.)
15:33	0	19.94	2.95	295	1.40	0.0	4.25	20.78	
15:38	920	19.95	3.13	292	1.46	0.0	2.75	20.84	
15:43	1700	20.04	3.16	292	1.44	0.0	2.26	20.86	
15:48	2400	20.05	3.11	297	1.43	0.0	2.03	20.89	

COMMENTS: — SAMPLE COLLECTION TIME: 15:56 w/ duplicate sample

PREPARED BY: Dawn Vargo

* 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.)	29.5
Initial tubing depth (ft.) BTOC	25.5
Final tubing depth (ft.) BTOC	25.5
Initial pump speed	5.04
Time pump speed was initialized	15:28
Pump speed at flow into cylinder	5.04
Started new roll of tubing at	—
Three well volume (mL)	—

+1

2,000 mL volume poured into bucket:

Time	15:55								
Cummulative Volume (mL)	2000								

Additional remarks: Collected duplicate sample

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-11

DATE: 3/2/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Cloudy ~75° F ~~MOIST~~ Humid

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): 21.37 FT. | TIME: 17:24 | BTOC WELL SCREEN INTERVAL: 16.70 FT. to 26.70 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 30.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 27.5 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

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.)
17:43	0	18.70	3.46	300	0.182	0.0	5.42	21.71	
17:48	760	18.49	3.44	313	0.186	0.0	5.00	21.71	
17:53	1520	18.48	3.40	320	0.182	0.0	4.80	21.71	
17:58	2240	18.46	3.44	320	0.181	0.0	4.68	21.71	

COMMENTS:

SAMPLE COLLECTION TIME: 18:03

PREPARED BY: David Vargas

* 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.)	27.5
Initial tubing depth (ft.) BTOC	25.5
Final tubing depth (ft.) BTOC	25.5
Initial pump speed	5.05
Time pump speed was initialized	17:38
Pump speed at flow into cylinder	5.05
Started new roll of tubing at	—
Three well volume (mL)	—

42

2,000 mL volume poured into bucket:

Time	17:56								
Cummulative Volume (mL)	2000								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

DATE: 3-4-15	PROJECT NAME: GPA Bainbridge	WELL/SAMPLE NO: MW-12
WEATHER CONDITIONS: 68°F	rain when	Partly Cloudy
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 22.00 FT.

INITIAL WATER LEVEL (BTOC): 15.40 FT. TIME: 17:43

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

MEASURED TOTAL WELL DEPTH (**BGS**): 22.00 FT. MEASURED TOTAL WELL DEPTH (BTOC) 22.53 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

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.)
17:55	0	24.51	6.13	79	0.790	0.0	2.63	15.41	
18:00	880	23.46	5.97	89	0.821	0.0	2.75	15.41	
18:05	1660	22.85	5.89	94	0.834	0.0	2.92	15.41	
18:10	2320	22.87	5.89	101	0.845	0.0	3.27	15.41	

COMMENTS:

SAMPLE COLLECTION TIME: 18:13

PREPARED BY: SHelvey

* 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.)	22
Initial tubing depth (ft.) BTOC	18.5
Final tubing depth (ft.) BTOC	18.5
Initial pump speed	5.10
Time pump speed was initialized	17:51
Pump speed at flow into cylinder	5.10
Started new roll of tubing at	—
Three well volume (mL)	—

+2 feet from new roll

— used up old roll extras

2,000 mL volume poured into bucket:

Time	18:08								
Cummulative Volume (mL)	2300								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-13

DATE: 3-5-15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: overcast low wind 65°F

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): 15.08 FT. | TIME: 7:57 | BTOC WELL SCREEN INTERVAL: 11.70 FT. to 21.70 FT.

MEASURED TOTAL WELL DEPTH (BGS): 21.75 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 22.03 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

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.)
8:07	0	21.10	6.29	178	0.924	0.0	3.50	15.09	Clear, bubbly
8:13	960	19.26	4.41	235	0.933	0.0	2.23	15.09	
8:18	1880	18.94	4.12	257	0.932	0.0	1.98	15.09	
8:23	2640	19.27	4.46	235	0.929	0.0	1.91	15.09	
8:28	3540	18.67	4.22	229	0.926	0.0	1.89	15.09	
8:33	4390	18.62	4.43	175	0.924	0.0	1.93	15.09	
8:38	5220	18.53	4.26	163	0.924	0.0	1.87	15.09	
8:43	6180	18.37	4.47	120	0.928	0.0	1.77	15.09	
8:49	7120	18.26	4.27	125	0.932	0.0	1.69	15.09	
8:54	8080	18.26	4.40	111	0.928	0.0	1.63	15.08	
8:59	9760	18.32	4.31	96	0.929	0.0	1.59	15.09	
9:04	10,640	18.33	4.49	94	0.926	0.0	1.50	15.09	
9:09	12000	18.11	4.19	91	0.928	0.0	1.53	15.09	
9:14	13060	18.20	4.34	84	0.929	0.0	1.48	15.08	
9:19	14,580	18.20	4.53	68	0.924	0.0	1.45	15.09	

COMMENTS:

SAMPLE COLLECTION TIME: 9:22

PREPARED BY: S Helms

* 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.)	205 +2
Initial tubing depth (ft.) BTOC	13.5
Final tubing depth (ft.) BTOC	13.5
Initial pump speed	5.09
Time pump speed was initialized	8:04
Pump speed at flow into cylinder	5.05
Started new roll of tubing at	—
Three well volume (mL)	~13,000

8:50 increase pump speed to 7.12

2,000 mL volume poured into bucket:

Time	8:14	8:30	8:42	8:53	9:01	9:09	9:17		
Cummulative Volume (mL)	2,000	4000	6000	8,000	10,000	12000	14000		

Additional remarks: Sampled with 3 well volume reached

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

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WELL/SAMPLE NO: MW-14

DATE: 3-4-15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Mostly cloudy low wind 80° F

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): 23.01 FT. | TIME: 13:58 | BTOC WELL SCREEN INTERVAL: 66.85 FT. to 71.85 FT.

MEASURED TOTAL WELL DEPTH (BGS): 72.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 71.50 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

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.)
14:18	0	23.20	7.82	160	0.286	13.8	3.25	23.51	tan, tint in cylinder
14:18	820	21.59	9.65	58	0.327	13.5	1.92	23.81	Yellow
14:23	1620	21.50	9.30	30	0.317	9.1	1.30	23.88	
14:28	2220	21.42	9.18	-2	0.293	5.6	0.86	23.93	
14:33	2940	21.56	9.36	-37	0.280	2.5	0.80	23.94	
14:38	3640	21.41	8.75	-23	0.272	1.7	0.70	23.94	
14:43	4360	21.52	8.97	-66	0.268	0.0	0.58	23.96	
14:48	5120	21.37	8.41	-35	0.263	0.2	0.55	23.96	
14:53	5850	21.22	8.03	-51	0.262	0.0	0.61	23.98	
14:58	6500	21.16	8.32	-154	0.261	0.0	0.61	23.96	
15:03	7200	21.21	8.12	-173	0.260	0.0	1.37	23.96	
15:08	7900	21.37	7.65	-165	0.259	0.0	2.16	23.96	
15:13	8600	21.32	8.05	-196	0.258	0.0	2.58	23.96	
15:18	9300	21.32	7.76	-184	0.256	0.0	2.81	23.96	
15:25	10,300	21.32	~~7.76~~	-182	0.252	0.0	2.77	23.96	PH = 7.77
15:30	11,080	21.41	7.67	-180	0.250	0.0	2.65	23.96	

1100

COMMENTS:

SAMPLE COLLECTION TIME: 15:34

PREPARED BY: S Yelling

* 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.)	71
Initial tubing depth (ft.) BTOC	69
Final tubing depth (ft.) BTOC	69
Initial pump speed	5.07
Time pump speed was initialized	14.08
Pump speed at flow into cylinder	5.07
Started new roll of tubing at	—
Three well volume (mL)	—

+2

2,000 mL volume poured into bucket:

Time	14:26	14:40	14:56	15:10	1524				
Cummulative Volume (mL)	2000	4000	6200	8200	10,200				

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-15

DATE: 3/4/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: 70°F Partly cloudy ≤5 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): 19.20 FT. | TIME: 10:53 | BTOC WELL SCREEN INTERVAL: 13.00 FT. to 23.00 FT.

MEASURED TOTAL WELL DEPTH (BGS): 21.51 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 21.51 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

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.)
11:05	0	22.82	5.11	157	2.55	2.2	1.69	19.26	
11:10	880	21.25	4.52	223	2.63	0.0	0.99	19.26	
11:15	1600	21.17	4.42	238	2.60	0.0	0.80	19.26	
11:20	2420	21.30	4.51	237	2.60	0.0	0.68	19.26	

COMMENTS:

SAMPLE COLLECTION TIME: 11:24

PREPARED BY: David Vargas

* 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.)	22.5
Initial tubing depth (ft.) BTOC	20.5
Final tubing depth (ft.) BTOC	20.5
Initial pump speed	5.06
Time pump speed was initialized	11:01
Pump speed at flow into cylinder	5.06
Started new roll of tubing at	—
Three well volume (mL)	—

x2

2,000 mL volume poured into bucket:

Time	11:17								
Cummulative Volume (mL)	2000								

Additional remarks: Area around Dad overgrown

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-16

DATE: 3/3/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: 70°F Sunny light wind/breeze (~5 mph N 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): 17.93 FT. | TIME: 17:31 | BTOC WELL SCREEN INTERVAL: 13.80 FT. to 23.80 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 24.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 23.83 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

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.)
17:43	0	21.92	6.37	49	0.027	0.0	6.90	17.95	
17:48	760	21.91	4.80	104	0.025	0.0	6.24	17.95	
17:53	1580	21.35	4.53	100	0.025	0.0	6.03	17.95	
17:58	2400	20.97	4.61	168	0.025	0.0	6.36	17.95	
18:03	3210	20.72	4.53	183	0.025	0.0	6.34	17.95	

COMMENTS:

SAMPLE COLLECTION TIME: 18:06

PREPARED BY: David Vargas

* 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.)	23 ft
Initial tubing depth (ft.) BTOC	21
Final tubing depth (ft.) BTOC	21
Initial pump speed	5.07
Time pump speed was initialized	17:35
Pump speed at flow into cylinder	5:07
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	17:55								
Cummulative Volume (mL)	2000								

Additional remarks: Bailed water out of vault. cleaned gasket

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-17

DATE: 3-3-15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: 72°F Partly cloudy, [illegible]

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): 14.53 FT. | TIME: 15:20 | 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

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.)
15:32	0	22.99	5.84	77	0.135	0.0	5.12	14.55	Tan plug in FT32 pull
15:37	980	21.67	6.09	-21	0.263	0.0	1.48	14.56	
15:42	1960	21.27	5.96	-1	0.439	0.0	1.09	14.55	Tan tint in cylinder
15:47	2780	20.10	6.52	-32	0.489	0.0	0.94	14.56	
15:52	3720	19.97	6.58	-38	0.494	0.0	0.84	14.55	
15:58	4780	20.09	6.64	-43	0.493	0.0	0.74	14.55	
16:03	5720	20.12	6.53	-38	0.493	0.0	0.71	14.55	
16:09	6880	20.13	6.66	-48	0.493	0.0	0.67	14.55	
16:14	7640	20.11	6.48	-38	0.494	0.0	0.65	14.55	
16:19	8660	20.11	6.71	-53	0.496	0.0	0.62	14.55	
16:24	9600	20.12	6.48	-40	0.497	0.0	0.61	14.55	
16:29	10200	20.15	6.73	-56	0.496	0.0	0.58	14.55	
16:34	11020	20.12	6.66	-53	0.495	0.0	0.54	14.55	
16:40	12000	20.09	6.74	-58	0.498	0.0	0.52	14.55	

1640

100

COMMENTS:

SAMPLE COLLECTION TIME: 16:42

PREPARED BY: S. Helmly

* 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	5.03
Time pump speed was initialized	15:28
Pump speed at flow into cylinder	5.05
Started new roll of tubing at	—
Three well volume (mL)	—

+2

2,000 mL volume poured into bucket:

Time	15:42	15:54	16:04	16:16	16:28	16:40			
Cummulative Volume (mL)	2000	4000	6000	8000	10000	12000			

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-18

DATE: 3/4/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: 70°F ~5 mph wind Sunny / partly cloudy

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): 16.57 FT. | TIME: 9:39 | BTOC WELL SCREEN INTERVAL: 21.60 FT. to 31.60 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 32.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 32.83 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

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.)
9:50	0	20.74	6.15	188	1.42	16.9	2.29	16.56	
9:55	980	21.86	6.69	143	1.44	37.6	1.80	16.56	
10:00	1760	22.17	6.54	137	1.44	32.7	1.44	16.56	
10:05	2800	22.30	6.72	117	1.44	26.4	1.26	16.56	
10:10	3480	22.40	6.60	122	1.43	14.0	1.13	16.56	
10:15	4280	22.52	6.69	110	1.43	14.6	1.04	16.56	
10:20	5100	22.61	6.68	112	1.43	7.9	0.68	16.56	

COMMENTS: | SAMPLE COLLECTION TIME: 10:30 | PREPARED BY: David Vargas

* 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.)	28.5
Initial tubing depth (ft.) BTOC	26.5
Final tubing depth (ft.) BTOC	26.5
Initial pump speed	5.03
Time pump speed was initialized	9:46
Pump speed at flow into cylinder	5.03
Started new roll of tubing at	
Three well volume (mL)	

+2 Matrix spike Collected. -S.M

2,000 mL volume poured into bucket:

Time	10:01	10:14							
Cummulative Volume (mL)	2000	4200							

Additional remarks: Soft bottom of well no definitive hit to bottom

Matrix spike

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-19

DATE: 3-9-15	PROJECT NAME: GPA Bainbridge	PROJECT NO: 400007 - 4.5
WEATHER CONDITIONS: Foggy/overcast 63°F low 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): 17.54 FT. TIME: 8:09	BTOC WELL SCREEN INTERVAL: 21.65 FT. to 31.65 FT.	
MEASURED TOTAL WELL DEPTH (**BGS**): 32.00 FT.	MEASURED TOTAL WELL DEPTH (BTOC) 32.43 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		
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.)
8:21	0	19.96	4.95	234	1.16	283	1.96	17.54	water is cloudy
8:26	720	20.67	3.96	308	1.14	355	1.29	17.54	in cylinder
8:31	1580	20.91	3.86	324	1.14	375	1.03	17.54	Air bubble from well
8:36	2360	21.02	3.99	321	1.15	338	0.87	17.54	
8:41	3220	21.04	3.94	327	1.15	278	0.79	17.54	Bubbles still coming from
8:46	4000	21.07	3.83	328	1.15	220	0.72	17.54	well (Sporadic large)
8:51	4800	21.13	3.99	327	1.15	186	0.68	17.54	
1650 8:56	5620	21.13	3.85	336	1.14	155	0.64	17.54	
9:01	6500	21.13	3.99	328	1.14	130	0.61	17.54	
9:06	7380	21.14	3.93	333	1.14	105	0.59	17.54	
9:11	8100	21.20	3.95	331	1.13	98.1	0.58	17.54	Bubbles still present

COMMENTS:

SAMPLE COLLECTION TIME: ~~9:15~~ 9:15

PREPARED BY: David Vargas

* 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.)	29.5
Initial tubing depth (ft.) BTOC	26.5
Final tubing depth (ft.) BTOC	26.5
Initial pump speed	5.14
Time pump speed was initialized	~~8:19~~ 8:19
Pump speed at flow into cylinder	5-14
Started new roll of tubing at	—
Three well volume (mL)	—

+2

2,000 mL volume poured into bucket:

Time	8:33	8:46	8:58	~~8:9:10~~ 9:10					
Cummulative Volume (mL)	2000	4000	6000	8000					

Additional remarks: Air pressure build up when removing well cap
Bailed water out of vault. water was ~ 1" above TOC

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-20

DATE: 3-4-5 - 19 PROJECT NAME: GPA Bainbridge PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Overcast, Light Wind, 60°F

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): 17.28 FT. TIME: 17:48 BTOC WELL SCREEN INTERVAL: 21.75 FT. to 31.75 FT.

MEASURED TOTAL WELL DEPTH (BGS): 32.00 FT. MEASURED TOTAL WELL DEPTH (BTOC) 32.39 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

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.)
17:59	0	16.60	3.14	301	2.418	0.0	8.27	17.28	
18:04	800	16.97	3.80	268	0.428	0.0	7.27	17.28	
18:09	1560	17.15	3.79	269	0.419	0.0	6.90	17.28	PH = 3.79
18:14	2100	17.56	3.69	274	0.442	0.0	6.61	17.28	PH = 3.69
18:19	2380	17.67	3.72	273	0.445	0.0	6.53	17.29	

COMMENTS:

SAMPLE COLLECTION TIME: 18:23

PREPARED BY: S Hamby

* 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.)	71
Initial tubing depth (ft.) BTOC	27
Final tubing depth (ft.) BTOC	27
Initial pump speed	5.08
Time pump speed was initialized	17:54
Pump speed at flow into cylinder	5.03
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	18:12								
Cummulative Volume (mL)	2000								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION PAGE 1 OF 1

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-21

DATE: 3/5/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: 65°F little/no rain cloudy wl 5 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): 18.19 FT. | TIME: 16:21 | BTOC WELL SCREEN INTERVAL: 21.93 FT. to 31.93 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 32.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 31.50 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

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.)
16:32	0	18.14	3.35	283	0.915	0.0	6.38	18.21	
16:37	760	14.04	3.63	276	0.997	0.0	5.16	18.21	
16:42	1480	19.11	3.76	271	0.965	0.0	4.80	18.21	
16:47	2200	19.17	3.70	275	0.930	0.0	4.64	18.21	
16:52	2920	19.15	3.64	277	0.941	0.0	4.44	18.21	
16:57	3560	19.16	3.854	282	0.978	0.0	4.60	18.21	
17:02	4200	19.04	3.51	296	1.07	0.0	3.43	18.21	
17:07	4880	19.02	3.44	289	1.09	0.0	4.34	18.21	
17:12	5780	19.04	3.44	290	1.12	0.0	4.37	18.21	
17:17	6300	19.01	3.54	282	1.11	0.0	4.09	18.21	

1580

COMMENTS: | SAMPLE COLLECTION TIME: 17:21

PREPARED BY: Daniel Gallagher

* 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	27
Final tubing depth (ft.) BTOC	27
Initial pump speed	5.06
Time pump speed was initialized	16:28
Pump speed at flow into cylinder	5.06
Started new roll of tubing at	—
Three well volume (mL)	—

+1

2,000 mL volume poured into bucket:

Time	16:47	17:02	17:16						
Cummulative Volume (mL)	2200	4200	6200						

Additional remarks: Vault full of water. Bailed water out. Little air pressure in well

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-22

DATE: 3/6/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: 40°F Cloudy ≤5 mph wind

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): 19.60 FT. TIME: 7:54 | BTOC WELL SCREEN INTERVAL: 23.80 FT. to 33.80 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 35.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC) 33.54 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

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.)
8:08	0	18.14	3.86	230	0.673	139	3.91	19.63	
8:13	760	18.19	3.68	260	0.711	126	3.11	19.63	
8:18	1540	18.44	3.58	273	0.720	78.3	2.77	19.63	
8:23	2200	18.57	3.58	278	0.724	55.5	2.63	19.63	
8:28	2960	18.67	3.63	278	0.729	44.7	2.66	19.63	
8:33	3880	18.66	3.56	286	0.730	36.8	2.60	19.63	
~~8:38~~	~~4300~~	~~17.97~~	~~2.96~~	~~340~~	~~0.002~~	~~304~~	~~10.52~~		
8:42	4300	16.71	3.52	291	0.736	42.4	3.98	19.63	
8:47	4880	17.53	3.62	289	0.746	31.8	2.87	19.62	
8:52	5580	17.94	3.58	293	0.750	20.4	3.01	19.63	
8:57	6280	18.55	3.58	295	0.741	23.3	2.76		

COMMENTS:

SAMPLE COLLECTION TIME: 9:02 w/matrix spike

PREPARED BY: David Vargas

* 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	5.02
Time pump speed was initialized	8:03
Pump speed at flow into cylinder	5.02
Started new roll of tubing at	—
Three well volume (mL)	—

+2

2,000 mL volume poured into bucket:

Time	8:21	8:36	8:55						
Cummulative Volume (mL)	2000	4100	6100						

Additional remarks: At 8:38 pump reversed & drained horiba

ENVIRONMENTAL INTERNATIONAL CORPORATION

PAGE 1 OF 1

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-23

DATE: 3-5-15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: overcast (light drizzle) 65°F, low wind - needing wind

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

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 13.83 FT. to 23.83 FT.

INITIAL WATER LEVEL (BTOC): 14.89 FT. | TIME: 10:35 | BTOC WELL SCREEN INTERVAL: 13.83 FT. to 23.83 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 24.03 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 24.00 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

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.)
10:46	0	21.20	4.38	193	1.43	0.0	2.92	14.88	Small amount of
10:51	940	23.15	4.47	181	1.42	0.0	1.52	14.89	plant matter / dirt
10:56	1880	23.12	4.48	179	1.43	0.0	1.34	14.89	
11:01	2660	23.11	4.47	179	1.47	0.0	0.93	14.89	

COMMENTS: | SAMPLE COLLECTION TIME: 11:05 | PREPARED BY: SHeum

* 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.)	29.5
Initial tubing depth (ft.) BTOC	19.5
Final tubing depth (ft.) BTOC	19.5
Initial pump speed	5.07
Time pump speed was initialized	10:43
Pump speed at flow into cylinder	5.12
Started new roll of tubing at	—
Three well volume (mL)	—

+ light drizzle at 10:35 stopped mid way not enough to wet ground.

2,000 mL volume poured into bucket:

Time	10:57								
Cummulative Volume (mL)	2000								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

DATE: 3-3-15	PROJECT NAME: GPA Bainbridge	WELL/SAMPLE NO: MW-24
		PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: 70°F Clear no wind

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

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

BGS WELL SCREEN INTERVAL: 12.11 FT. to 22.11 FT.

INITIAL WATER LEVEL (BTOC): 14.35 FT. TIME: 13:48

BTOC WELL SCREEN INTERVAL: 12.29 FT. to 22.29 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): FT. MEASURED TOTAL WELL DEPTH (BTOC): 22.6 22.81 FT. FLUSH-TO-GRADE 0.18 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

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	24.16	5.61	217	0.226	0.0	3.27	14.35	
14:05	800	23.40	5.62	214	0.225	0.0	2.51	14.36	
14:10	1780	22.20	5.35	230	0.225	0.0	2.45	14.35	
14:15	2640	21.36	5.54	215	0.224	0.0	2.45	14.35	
14:20	3780	21.05	5.72	201	0.216	0.0	2.47	14.35	
14:25	4180	21.02	5.67	202	0.215	0.0	2.45	14.35	
14:30	4990	20.52	5.61	202	0.209	0.0	2.44	14.35	
14:35	5820	20.69	5.47	207	0.208	0.0	2.36	14.35	
14:40	6580	20.67	5.67	194	0.208	0.0	2.32	14.35	
14:45	7420	20.80	5.67	193	0.211	0.0	2.33	14.35	
14:50	8100	20.86	5.72	191	0.214	0.0	2.19	14.37	

1420

COMMENTS:

SAMPLE COLLECTION TIME: 14:53

PREPARED BY: SHeavy

* 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.)	20.5
Initial tubing depth (ft.) BTOC	18.5
Final tubing depth (ft.) BTOC	19.5
Initial pump speed	5.02
Time pump speed was initialized	13:57
Pump speed at flow into cylinder	4.89
Started new roll of tubing at	—
Three well volume (mL)	—

12

2,000 mL volume poured into bucket:

Time	14:12	14:24	14:36	14:44					
Cummulative Volume (mL)	2000	4000	6000	8000					

Additional remarks:

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

FIFTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT G
MARCH 2015 GROUNDWATER ANALYTICAL RESULTS

Analytical Report 503521

for

Environmental International Corporation

Project Manager: Alan Sanders

GPA-Bainbridge

400007-4.5

21-APR-15

Collected By: Client

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

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-14-18), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

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)

21-APR-15

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

Reference: XENCO Report No(s): **503521**
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) 503521. 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. 503521 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,

J. Derek Rounsley
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 503521

Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	03-03-15 11:03		503521-001
MW-1A	W	03-03-15 12:07		503521-002
MW-2	W	03-02-15 16:37		503521-003
MW-3	W	03-03-15 08:44		503521-004
MW-4U	W	03-03-15 09:45		503521-005
MW-5A	W	03-03-15 12:57		503521-006
MW-5D	W	03-05-15 15:01		503521-007
MW-6	W	03-04-15 17:02		503521-008
MW-7	W	03-04-15 13:20		503521-009
MW-8	W	03-05-15 10:15		503521-010
MW-10	W	03-05-15 15:56		503521-011
MW-11	W	03-02-15 18:03		503521-012
MW-12	W	03-04-15 18:13		503521-013
MW-13	W	03-05-15 09:22		503521-014
MW-14	W	03-04-15 15:34		503521-015
MW-15	W	03-04-15 11:24		503521-016
MW-16	W	03-03-15 18:06		503521-017
MW-17	W	03-03-15 16:42		503521-018
MW-18	W	03-04-15 10:30		503521-019
MW-19	W	03-04-15 09:15		503521-020
MW-20	W	03-05-15 18:23		503521-021
MW-21	W	03-05-15 17:21		503521-022
MW-22	W	03-06-15 09:02		503521-023
MW-23	W	03-05-15 11:05		503521-024
MW-24	W	03-03-15 14:53		503521-025
Equipment Blank	W	03-06-15 09:41		503521-026
MW-10 (Duplicate)	W	03-05-15 15:56		503521-027

Sample receipt non conformances and comments:

This revised report replaces the original report submitted on March 15, 2015. The report was revised to add the following case narrative statements. No other changes were made to this report.

Sample MW-11 (503521-012) was extracted 1 day outside of the recommended sample holding time. The results are comparable to historical results for this sample.

Sample ID Equipment Blank (503521-026) had positive results above the MDL but below the RL for Beta-BHC and Delta-BHC. The percent difference between the column 1 and column 2 was >25% indicating a potential bias for these results.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-963558 Organochlorine Pesticides by SW-846 8081B
Beta-BHC , Delta-BHC , Endosulfan Sulfate, Endrin Aldehyde, Endrin Ketone RPD was outside laboratory control limits. Individual Spike recoveries are within lab control limits.
Samples in the analytical batch are: 503521-001, -002, -003, -004, -005, -006, -007, -008, -009

Batch: LBA-963662 Organochlorine Pesticides by SW-846 8081B
Beta-BHC , Delta-BHC , Endosulfan Sulfate, Endrin Aldehyde, Endrin Ketone RPD was outside laboratory control limits. Individual Spike Recoveries are within laboratory control limtis.
Samples in the analytical batch are: 503521-010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020, -021, -022, -023, -024, -025, -026, -027

Certificate of Analytical Results 503521

Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id: **MW-1** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-001 Date Collected: 03.03.15 11.03

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

Tech: VBR % Moisture:

Analyst: CLAR Date Prep: 03.08.15 14.00

Seq Number: 963558

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	03.11.15 23.22	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	03.11.15 23.22	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	03.11.15 23.22	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	03.11.15 23.22	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	03.11.15 23.22	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	03.11.15 23.22	U	1
Beta-BHC	319-85-7	U	0.0500	0.00230	ug/L	03.11.15 23.22	UF	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	03.11.15 23.22	UF	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	03.11.15 23.22	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	03.11.15 23.22	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	03.11.15 23.22	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	03.11.15 23.22	UF	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	03.11.15 23.22	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	03.11.15 23.22	UF	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	03.11.15 23.22	UF	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	03.11.15 23.22	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	03.11.15 23.22	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	03.11.15 23.22	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	03.11.15 23.22	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	03.11.15 23.22	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	03.11.15 23.22	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	03.11.15 23.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	54	%	27-135	03.11.15 23.22	
Decachlorobiphenyl	2051-24-3	89	%	26-154	03.11.15 23.22	

Certificate of Analytical Results 503521

Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id: **MW-1A** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-002 Date Collected: 03.03.15 12.07

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

Tech: VBR % Moisture:

Analyst: CLAR Date Prep: 03.08.15 14.00

Seq Number: 963558

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	03.11.15 23.42	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	03.11.15 23.42	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	03.11.15 23.42	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	03.11.15 23.42	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	03.11.15 23.42	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	03.11.15 23.42	U	1
Beta-BHC	319-85-7	**0.0214**	0.0500	0.00230	ug/L	03.11.15 23.42	JF	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	03.11.15 23.42	UF	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	03.11.15 23.42	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	03.11.15 23.42	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	03.11.15 23.42	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	03.11.15 23.42	UF	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	03.11.15 23.42	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	03.11.15 23.42	UF	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	03.11.15 23.42	UF	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	03.11.15 23.42	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	03.11.15 23.42	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	03.11.15 23.42	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	03.11.15 23.42	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	03.11.15 23.42	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	03.11.15 23.42	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	03.11.15 23.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	59	%	27-135	03.11.15 23.42	
Decachlorobiphenyl	2051-24-3	88	%	26-154	03.11.15 23.42	

Certificate of Analytical Results 503521

Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id: **MW-2** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-003 Date Collected: 03.02.15 16.37

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

Tech: VBR % Moisture:

Analyst: CLAR Date Prep: 03.08.15 14.00

Seq Number: 963558

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	03.12.15 00.02	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	03.12.15 00.02	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	03.12.15 00.02	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	03.12.15 00.02	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	03.12.15 00.02	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	03.12.15 00.02	U	1
Beta-BHC	319-85-7	U	0.0500	0.00230	ug/L	03.12.15 00.02	UF	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	03.12.15 00.02	UF	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	03.12.15 00.02	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	03.12.15 00.02	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	03.12.15 00.02	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	03.12.15 00.02	UF	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	03.12.15 00.02	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	03.12.15 00.02	UF	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	03.12.15 00.02	UF	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	03.12.15 00.02	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	03.12.15 00.02	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	03.12.15 00.02	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	03.12.15 00.02	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	03.12.15 00.02	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	03.12.15 00.02	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	03.12.15 00.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	60	%	27-135	03.12.15 00.02	
Decachlorobiphenyl	2051-24-3	87	%	26-154	03.12.15 00.02	

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Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id: **MW-3** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-004 Date Collected: 03.03.15 08.44

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

Tech: VBR % Moisture:

Analyst: CLAR Date Prep: 03.08.15 14.00

Seq Number: 963558

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	03.12.15 00.22	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	03.12.15 00.22	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	03.12.15 00.22	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	03.12.15 00.22	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	03.12.15 00.22	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	03.12.15 00.22	U	1
Beta-BHC	319-85-7	U	0.0500	0.00230	ug/L	03.12.15 00.22	UF	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	03.12.15 00.22	UF	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	03.12.15 00.22	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	03.12.15 00.22	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	03.12.15 00.22	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	03.12.15 00.22	UF	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	03.12.15 00.22	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	03.12.15 00.22	UF	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	03.12.15 00.22	UF	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	03.12.15 00.22	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	03.12.15 00.22	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	03.12.15 00.22	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	03.12.15 00.22	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	03.12.15 00.22	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	03.12.15 00.22	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	03.12.15 00.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	44	%	27-135	03.12.15 00.22	
Decachlorobiphenyl	2051-24-3	93	%	26-154	03.12.15 00.22	

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Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id: **MW-4U** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-005 Date Collected: 03.03.15 09.45

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

Tech: VBR % Moisture:

Analyst: CLAR Date Prep: 03.08.15 14.00

Seq Number: 963558

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	03.12.15 00.43	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	03.12.15 00.43	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	03.12.15 00.43	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	03.12.15 00.43	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	03.12.15 00.43	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	03.12.15 00.43	U	1
Beta-BHC	319-85-7	U	0.0500	0.00230	ug/L	03.12.15 00.43	UF	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	03.12.15 00.43	UF	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	03.12.15 00.43	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	03.12.15 00.43	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	03.12.15 00.43	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	03.12.15 00.43	UF	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	03.12.15 00.43	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	03.12.15 00.43	UF	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	03.12.15 00.43	UF	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	03.12.15 00.43	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	03.12.15 00.43	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	03.12.15 00.43	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	03.12.15 00.43	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	03.12.15 00.43	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	03.12.15 00.43	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	03.12.15 00.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	39	%	27-135	03.12.15 00.43	
Decachlorobiphenyl	2051-24-3	90	%	26-154	03.12.15 00.43	

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Sample Id: **MW-5A** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-006 Date Collected: 03.03.15 12.57

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

Tech: VBR % Moisture:

Analyst: CLAR Date Prep: 03.08.15 14.00

Seq Number: 963558

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	03.12.15 01.03	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	03.12.15 01.03	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	03.12.15 01.03	U	1
Aldrin	309-00-2	**0.0219**	0.0500	0.00260	ug/L	03.12.15 01.03		1
Alpha-BHC	319-84-6	**0.0616**	0.0500	0.0101	ug/L	03.12.15 01.03		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	03.12.15 01.03	U	1
Beta-BHC	319-85-7	**1.63**	0.250	0.0115	ug/L	03.12.15 12.27	DF	5
Delta-BHC	319-86-8	**0.255**	0.0500	0.00200	ug/L	03.12.15 01.03	F	1
Dieldrin	60-57-1	**1.80**	0.100	0.00430	ug/L	03.12.15 01.03		1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	03.12.15 01.03	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	03.12.15 01.03	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	03.12.15 01.03	UF	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	03.12.15 01.03	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	03.12.15 01.03	UF	1
Endrin Ketone	53494-70-5	**0.0700**	0.100	0.00450	ug/L	03.12.15 01.03	JF	1
Gamma-BHC (Lindane)	58-89-9	**0.0545**	0.0500	0.00160	ug/L	03.12.15 01.03		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	03.12.15 01.03	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	03.12.15 01.03	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	03.12.15 01.03	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	03.12.15 01.03	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	03.12.15 01.03	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	03.12.15 01.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	51	%	27-135	03.12.15 01.03	
Decachlorobiphenyl	2051-24-3	93	%	26-154	03.12.15 01.03	

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Environmental International Corporation, Alpharetta, GA

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Sample Id: **MW-5D** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-007 Date Collected: 03.05.15 15.01

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

Tech: VBR % Moisture:

Analyst: CLAR Date Prep: 03.08.15 14.00

Seq Number: 963558

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	03.12.15 01.23	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	03.12.15 01.23	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	03.12.15 01.23	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	03.12.15 01.23	U	1
Alpha-BHC	319-84-6	**0.145**	0.0500	0.0101	ug/L	03.12.15 01.23		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	03.12.15 01.23	U	1
Beta-BHC	319-85-7	**4.47**	1.00	0.0460	ug/L	03.12.15 12.47	DF	20
Delta-BHC	319-86-8	**1.77**	1.00	0.0400	ug/L	03.12.15 12.47	DF	20
Dieldrin	60-57-1	**0.0801**	0.100	0.00430	ug/L	03.12.15 01.23	J	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	03.12.15 01.23	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	03.12.15 01.23	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	03.12.15 01.23	UF	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	03.12.15 01.23	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	03.12.15 01.23	UF	1
Endrin Ketone	53494-70-5	**0.0204**	0.100	0.00450	ug/L	03.12.15 01.23	JF	1
Gamma-BHC (Lindane)	58-89-9	**0.143**	0.0500	0.00160	ug/L	03.12.15 01.23		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	03.12.15 01.23	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	03.12.15 01.23	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	03.12.15 01.23	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	03.12.15 01.23	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	03.12.15 01.23	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	03.12.15 01.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	41	%	27-135	03.12.15 01.23	
Decachlorobiphenyl	2051-24-3	87	%	26-154	03.12.15 01.23	

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Sample Id: **MW-6** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-008 Date Collected: 03.04.15 17.02

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

Tech: VBR % Moisture:

Analyst: CLAR Date Prep: 03.08.15 14.00

Seq Number: 963558

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	03.12.15 01.43	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	03.12.15 01.43	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	03.12.15 01.43	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	03.12.15 01.43	U	1
Alpha-BHC	319-84-6	**0.348**	0.0500	0.0101	ug/L	03.12.15 01.43		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	03.12.15 01.43	U	1
Beta-BHC	319-85-7	**0.594**	0.0500	0.00230	ug/L	03.12.15 01.43	F	1
Delta-BHC	319-86-8	**1.17**	0.250	0.0100	ug/L	03.12.15 13.07	DF	5
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	03.12.15 01.43	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	03.12.15 01.43	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	03.12.15 01.43	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	03.12.15 01.43	UF	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	03.12.15 01.43	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	03.12.15 01.43	UF	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	03.12.15 01.43	UF	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	03.12.15 01.43	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	03.12.15 01.43	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	03.12.15 01.43	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	03.12.15 01.43	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	03.12.15 01.43	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	03.12.15 01.43	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	03.12.15 01.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	43	%	27-135	03.12.15 01.43	
Decachlorobiphenyl	2051-24-3	92	%	26-154	03.12.15 01.43	

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Sample Id: **MW-7** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-009 Date Collected: 03.04.15 13.20

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

Tech: VBR % Moisture:

Analyst: CLAR Date Prep: 03.08.15 14.00

Seq Number: 963558

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	03.12.15 02.03	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	03.12.15 02.03	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	03.12.15 02.03	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	03.12.15 02.03	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	03.12.15 02.03	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	03.12.15 02.03	U	1
Beta-BHC	319-85-7	**0.427**	0.0500	0.00230	ug/L	03.12.15 02.03	F	1
Delta-BHC	319-86-8	**0.0132**	0.0500	0.00200	ug/L	03.12.15 02.03	JF	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	03.12.15 02.03	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	03.12.15 02.03	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	03.12.15 02.03	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	03.12.15 02.03	UF	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	03.12.15 02.03	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	03.12.15 02.03	UF	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	03.12.15 02.03	UF	1
Gamma-BHC (Lindane)	58-89-9	**0.0334**	0.0500	0.00160	ug/L	03.12.15 02.03	J	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	03.12.15 02.03	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	03.12.15 02.03	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	03.12.15 02.03	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	03.12.15 02.03	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	03.12.15 02.03	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	03.12.15 02.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	38	%	27-135	03.12.15 02.03	
Decachlorobiphenyl	2051-24-3	91	%	26-154	03.12.15 02.03	

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Environmental International Corporation, Alpharetta, GA

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Sample Id: **MW-8** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-010 Date Collected: 03.05.15 10.15

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

Tech: VBR % Moisture:

Analyst: CLAR Date Prep: 03.10.15 17.00

Seq Number: 963662

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	03.12.15 18.12	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	03.12.15 18.12	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	03.12.15 18.12	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	03.12.15 18.12	U	1
Alpha-BHC	319-84-6	**0.0131**	0.0500	0.0101	ug/L	03.12.15 18.12	J	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	03.12.15 18.12	U	1
Beta-BHC	319-85-7	**0.542**	0.0500	0.00230	ug/L	03.12.15 18.12	F	1
Delta-BHC	319-86-8	**0.0231**	0.0500	0.00200	ug/L	03.12.15 18.12	JF	1
Dieldrin	60-57-1	**0.00710**	0.100	0.00430	ug/L	03.12.15 18.12	J	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	03.12.15 18.12	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	03.12.15 18.12	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	03.12.15 18.12	UF	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	03.12.15 18.12	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	03.12.15 18.12	UF	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	03.12.15 18.12	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0108**	0.0500	0.00160	ug/L	03.12.15 18.12	J	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	03.12.15 18.12	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	03.12.15 18.12	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	03.12.15 18.12	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	03.12.15 18.12	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	03.12.15 18.12	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	03.12.15 18.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	44	%	27-135	03.12.15 18.12	
Decachlorobiphenyl	2051-24-3	87	%	26-154	03.12.15 18.12	

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Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id: **MW-10** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-011 Date Collected: 03.05.15 15.56

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

Tech: VBR % Moisture:

Analyst: VIC Date Prep: 03.10.15 17.00

Seq Number: 963662

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	03.12.15 18.33	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	03.12.15 18.33	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	03.12.15 18.33	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	03.12.15 18.33	U	1
Alpha-BHC	319-84-6	**0.243**	0.0500	0.0101	ug/L	03.12.15 18.33		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	03.12.15 18.33	U	1
Beta-BHC	319-85-7	**4.75**	1.00	0.0460	ug/L	03.13.15 12.58	DF	20
Delta-BHC	319-86-8	**0.294**	0.0500	0.00200	ug/L	03.12.15 18.33	F	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	03.12.15 18.33	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	03.12.15 18.33	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	03.12.15 18.33	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	03.12.15 18.33	UF	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	03.12.15 18.33	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	03.12.15 18.33	UF	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	03.12.15 18.33	U	1
Gamma-BHC (Lindane)	58-89-9	**0.111**	0.0500	0.00160	ug/L	03.12.15 18.33		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	03.12.15 18.33	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	03.12.15 18.33	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	03.12.15 18.33	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	03.12.15 18.33	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	03.12.15 18.33	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	03.12.15 18.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	44	%	27-135	03.12.15 18.33	
Decachlorobiphenyl	2051-24-3	86	%	26-154	03.12.15 18.33	

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Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id: **MW-11** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-012 Date Collected: 03.02.15 18.03

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

Tech: VBR % Moisture:

Analyst: VIC Date Prep: 03.10.15 17.00

Seq Number: 963662

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	03.12.15 18.53	UK	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	03.12.15 18.53	UK	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	03.12.15 18.53	UK	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	03.12.15 18.53	UK	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	03.12.15 18.53	UK	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	03.12.15 18.53	UK	1
Beta-BHC	319-85-7	**0.0108**	0.0500	0.00230	ug/L	03.12.15 18.53	JKF	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	03.12.15 18.53	UKF	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	03.12.15 18.53	UK	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	03.12.15 18.53	UK	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	03.12.15 18.53	UK	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	03.12.15 18.53	UKF	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	03.12.15 18.53	UK	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	03.12.15 18.53	UKF	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	03.12.15 18.53	UK	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	03.12.15 18.53	UK	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	03.12.15 18.53	UK	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	03.12.15 18.53	UK	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	03.12.15 18.53	UK	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	03.12.15 18.53	UK	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	03.12.15 18.53	UK	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	03.12.15 18.53	UK	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	50	%	27-135	03.12.15 18.53	
Decachlorobiphenyl	2051-24-3	83	%	26-154	03.12.15 18.53	

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Sample Id: **MW-12** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-013 Date Collected: 03.04.15 18.13

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

Tech: VBR % Moisture:

Analyst: CLAR Date Prep: 03.10.15 17.00

Seq Number: 963662

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	03.12.15 19.13	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	03.12.15 19.13	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	03.12.15 19.13	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	03.12.15 19.13	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	03.12.15 19.13	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	03.12.15 19.13	U	1
Beta-BHC	319-85-7	**0.0860**	0.0500	0.00230	ug/L	03.12.15 19.13	F	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	03.12.15 19.13	UF	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	03.12.15 19.13	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	03.12.15 19.13	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	03.12.15 19.13	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	03.12.15 19.13	UF	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	03.12.15 19.13	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	03.12.15 19.13	UF	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	03.12.15 19.13	U	1
Gamma-BHC (Lindane)	58-89-9	**0.00330**	0.0500	0.00160	ug/L	03.12.15 19.13	J	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	03.12.15 19.13	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	03.12.15 19.13	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	03.12.15 19.13	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	03.12.15 19.13	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	03.12.15 19.13	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	03.12.15 19.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	35	%	27-135	03.12.15 19.13	
Decachlorobiphenyl	2051-24-3	87	%	26-154	03.12.15 19.13	

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Sample Id: **MW-13** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-014 Date Collected: 03.05.15 09.22

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

Tech: VBR % Moisture:

Analyst: VIC Date Prep: 03.10.15 17.00

Seq Number: 963662

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	03.12.15 19.33	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	03.12.15 19.33	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	03.12.15 19.33	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	03.12.15 19.33	U	1
Alpha-BHC	319-84-6	**0.0206**	0.0500	0.0101	ug/L	03.12.15 19.33	J	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	03.12.15 19.33	U	1
Beta-BHC	319-85-7	**3.29**	0.500	0.0230	ug/L	03.13.15 15.20	DF	10
Delta-BHC	319-86-8	**0.101**	0.0500	0.00200	ug/L	03.12.15 19.33	F	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	03.12.15 19.33	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	03.12.15 19.33	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	03.12.15 19.33	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	03.12.15 19.33	UF	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	03.12.15 19.33	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	03.12.15 19.33	UF	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	03.12.15 19.33	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0507**	0.0500	0.00160	ug/L	03.12.15 19.33		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	03.12.15 19.33	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	03.12.15 19.33	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	03.12.15 19.33	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	03.12.15 19.33	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	03.12.15 19.33	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	03.12.15 19.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	53	%	27-135	03.12.15 19.33	
Decachlorobiphenyl	2051-24-3	87	%	26-154	03.12.15 19.33	

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Sample Id: **MW-14** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-015 Date Collected: 03.04.15 15.34

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

Tech: VBR % Moisture:

Analyst: CLAR Date Prep: 03.10.15 17.00

Seq Number: 963662

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	03.12.15 19.53	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	03.12.15 19.53	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	03.12.15 19.53	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	03.12.15 19.53	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	03.12.15 19.53	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	03.12.15 19.53	U	1
Beta-BHC	319-85-7	**0.179**	0.0500	0.00230	ug/L	03.12.15 19.53	F	1
Delta-BHC	319-86-8	**0.00260**	0.0500	0.00200	ug/L	03.12.15 19.53	JF	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	03.12.15 19.53	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	03.12.15 19.53	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	03.12.15 19.53	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	03.12.15 19.53	UF	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	03.12.15 19.53	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	03.12.15 19.53	UF	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	03.12.15 19.53	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	03.12.15 19.53	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	03.12.15 19.53	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	03.12.15 19.53	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	03.12.15 19.53	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	03.12.15 19.53	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	03.12.15 19.53	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	03.12.15 19.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	68	%	27-135	03.12.15 19.53	
Decachlorobiphenyl	2051-24-3	93	%	26-154	03.12.15 19.53	

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Sample Id: **MW-15** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-016 Date Collected: 03.04.15 11.24

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

Tech: VBR % Moisture:

Analyst: CLAR Date Prep: 03.10.15 17.00

Seq Number: 963662

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.101	0.00374	ug/L	03.12.15 20.13	U	1
4,4-DDE	72-55-9	U	0.101	0.00354	ug/L	03.12.15 20.13	U	1
4,4-DDT	50-29-3	U	0.101	0.00495	ug/L	03.12.15 20.13	U	1
Aldrin	309-00-2	U	0.0505	0.00263	ug/L	03.12.15 20.13	U	1
Alpha-BHC	319-84-6	**0.0496**	0.0505	0.0102	ug/L	03.12.15 20.13	J	1
Alpha-Chlordane	5103-71-9	U	0.0505	0.00222	ug/L	03.12.15 20.13	U	1
Beta-BHC	319-85-7	**0.262**	0.0505	0.00232	ug/L	03.12.15 20.13	F	1
Delta-BHC	319-86-8	**0.00778**	0.0505	0.00202	ug/L	03.12.15 20.13	JF	1
Dieldrin	60-57-1	U	0.101	0.00434	ug/L	03.12.15 20.13	U	1
Endosulfan I	959-98-8	U	0.0505	0.00242	ug/L	03.12.15 20.13	U	1
Endosulfan II	33213-65-9	U	0.101	0.00455	ug/L	03.12.15 20.13	U	1
Endosulfan Sulfate	1031-07-8	U	0.101	0.00707	ug/L	03.12.15 20.13	UF	1
Endrin	72-20-8	U	0.101	0.00465	ug/L	03.12.15 20.13	U	1
Endrin Aldehyde	7421-93-4	U	0.101	0.00869	ug/L	03.12.15 20.13	UF	1
Endrin Ketone	53494-70-5	U	0.101	0.00455	ug/L	03.12.15 20.13	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0339**	0.0505	0.00162	ug/L	03.12.15 20.13	J	1
Gamma-Chlordane	5103-74-2	U	0.0505	0.00182	ug/L	03.12.15 20.13	U	1
Heptachlor	76-44-8	U	0.0505	0.00293	ug/L	03.12.15 20.13	U	1
Heptachlor Epoxide	1024-57-3	U	0.0505	0.00283	ug/L	03.12.15 20.13	U	1
Methoxychlor	72-43-5	U	0.505	0.0291	ug/L	03.12.15 20.13	U	1
Chlordane	12789-03-6	U	0.505	0.0973	ug/L	03.12.15 20.13	U	1
Toxaphene	8001-35-2	U	2.53	0.428	ug/L	03.12.15 20.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	49	%	27-135	03.12.15 20.13	
Decachlorobiphenyl	2051-24-3	83	%	26-154	03.12.15 20.13	

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Sample Id: **MW-16** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-017 Date Collected: 03.03.15 18.06

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

Tech: VBR % Moisture:

Analyst: CLAR Date Prep: 03.10.15 17.00

Seq Number: 963662

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0990	0.00366	ug/L	03.12.15 20.34	U	1
4,4-DDE	72-55-9	U	0.0990	0.00347	ug/L	03.12.15 20.34	U	1
4,4-DDT	50-29-3	U	0.0990	0.00485	ug/L	03.12.15 20.34	U	1
Aldrin	309-00-2	U	0.0495	0.00257	ug/L	03.12.15 20.34	U	1
Alpha-BHC	319-84-6	U	0.0495	0.0100	ug/L	03.12.15 20.34	U	1
Alpha-Chlordane	5103-71-9	U	0.0495	0.00218	ug/L	03.12.15 20.34	U	1
Beta-BHC	319-85-7	U	0.0495	0.00228	ug/L	03.12.15 20.34	UF	1
Delta-BHC	319-86-8	U	0.0495	0.00198	ug/L	03.12.15 20.34	UF	1
Dieldrin	60-57-1	U	0.0990	0.00426	ug/L	03.12.15 20.34	U	1
Endosulfan I	959-98-8	U	0.0495	0.00238	ug/L	03.12.15 20.34	U	1
Endosulfan II	33213-65-9	U	0.0990	0.00446	ug/L	03.12.15 20.34	U	1
Endosulfan Sulfate	1031-07-8	U	0.0990	0.00693	ug/L	03.12.15 20.34	UF	1
Endrin	72-20-8	U	0.0990	0.00455	ug/L	03.12.15 20.34	U	1
Endrin Aldehyde	7421-93-4	U	0.0990	0.00851	ug/L	03.12.15 20.34	UF	1
Endrin Ketone	53494-70-5	U	0.0990	0.00446	ug/L	03.12.15 20.34	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0495	0.00158	ug/L	03.12.15 20.34	U	1
Gamma-Chlordane	5103-74-2	U	0.0495	0.00178	ug/L	03.12.15 20.34	U	1
Heptachlor	76-44-8	U	0.0495	0.00287	ug/L	03.12.15 20.34	U	1
Heptachlor Epoxide	1024-57-3	U	0.0495	0.00277	ug/L	03.12.15 20.34	U	1
Methoxychlor	72-43-5	U	0.495	0.0285	ug/L	03.12.15 20.34	U	1
Chlordane	12789-03-6	U	0.495	0.0953	ug/L	03.12.15 20.34	U	1
Toxaphene	8001-35-2	U	2.48	0.419	ug/L	03.12.15 20.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	38	%	27-135	03.12.15 20.34	
Decachlorobiphenyl	2051-24-3	84	%	26-154	03.12.15 20.34	

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Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id: **MW-17** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-018 Date Collected: 03.03.15 16.42

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

Tech: VBR % Moisture:

Analyst: CLAR Date Prep: 03.10.15 17.00

Seq Number: 963662

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	03.12.15 20.54	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	03.12.15 20.54	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	03.12.15 20.54	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	03.12.15 20.54	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	03.12.15 20.54	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	03.12.15 20.54	U	1
Beta-BHC	319-85-7	**0.357**	0.0500	0.00230	ug/L	03.12.15 20.54	F	1
Delta-BHC	319-86-8	**0.0849**	0.0500	0.00200	ug/L	03.12.15 20.54	F	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	03.12.15 20.54	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	03.12.15 20.54	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	03.12.15 20.54	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	03.12.15 20.54	UF	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	03.12.15 20.54	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	03.12.15 20.54	UF	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	03.12.15 20.54	U	1
Gamma-BHC (Lindane)	58-89-9	**0.00600**	0.0500	0.00160	ug/L	03.12.15 20.54	J	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	03.12.15 20.54	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	03.12.15 20.54	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	03.12.15 20.54	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	03.12.15 20.54	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	03.12.15 20.54	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	03.12.15 20.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	46	%	27-135	03.12.15 20.54	
Decachlorobiphenyl	2051-24-3	92	%	26-154	03.12.15 20.54	

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Sample Id: **MW-18** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-019 Date Collected: 03.04.15 10.30

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

Tech: VBR % Moisture:

Analyst: CLAR Date Prep: 03.10.15 17.00

Seq Number: 963662

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.0990	0.00366	ug/L	03.12.15 21.14	U	1
4,4-DDE	72-55-9	U	0.0990	0.00347	ug/L	03.12.15 21.14	U	1
4,4-DDT	50-29-3	U	0.0990	0.00485	ug/L	03.12.15 21.14	U	1
Aldrin	309-00-2	U	0.0495	0.00257	ug/L	03.12.15 21.14	U	1
Alpha-BHC	319-84-6	U	0.0495	0.0100	ug/L	03.12.15 21.14	U	1
Alpha-Chlordane	5103-71-9	U	0.0495	0.00218	ug/L	03.12.15 21.14	U	1
Beta-BHC	319-85-7	**0.111**	0.0495	0.00228	ug/L	03.12.15 21.14	F	1
Delta-BHC	319-86-8	U	0.0495	0.00198	ug/L	03.12.15 21.14	UF	1
Dieldrin	60-57-1	U	0.0990	0.00426	ug/L	03.12.15 21.14	U	1
Endosulfan I	959-98-8	U	0.0495	0.00238	ug/L	03.12.15 21.14	U	1
Endosulfan II	33213-65-9	U	0.0990	0.00446	ug/L	03.12.15 21.14	U	1
Endosulfan Sulfate	1031-07-8	U	0.0990	0.00693	ug/L	03.12.15 21.14	UF	1
Endrin	72-20-8	U	0.0990	0.00455	ug/L	03.12.15 21.14	U	1
Endrin Aldehyde	7421-93-4	U	0.0990	0.00851	ug/L	03.12.15 21.14	UF	1
Endrin Ketone	53494-70-5	U	0.0990	0.00446	ug/L	03.12.15 21.14	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0495	0.00158	ug/L	03.12.15 21.14	U	1
Gamma-Chlordane	5103-74-2	U	0.0495	0.00178	ug/L	03.12.15 21.14	U	1
Heptachlor	76-44-8	U	0.0495	0.00287	ug/L	03.12.15 21.14	U	1
Heptachlor Epoxide	1024-57-3	U	0.0495	0.00277	ug/L	03.12.15 21.14	U	1
Methoxychlor	72-43-5	U	0.495	0.0285	ug/L	03.12.15 21.14	U	1
Chlordane	12789-03-6	U	0.495	0.0953	ug/L	03.12.15 21.14	U	1
Toxaphene	8001-35-2	U	2.48	0.419	ug/L	03.12.15 21.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	34	%	27-135	03.12.15 21.14	
Decachlorobiphenyl	2051-24-3	89	%	26-154	03.12.15 21.14	

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Sample Id: **MW-19** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-020 Date Collected: 03.04.15 09.15

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

Tech: VBR % Moisture:

Analyst: CLAR Date Prep: 03.10.15 17.00

Seq Number: 963662

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.101	0.00372	ug/L	03.12.15 22.35	U	1
4,4-DDE	72-55-9	U	0.101	0.00352	ug/L	03.12.15 22.35	U	1
4,4-DDT	50-29-3	U	0.101	0.00492	ug/L	03.12.15 22.35	U	1
Aldrin	309-00-2	U	0.0503	0.00261	ug/L	03.12.15 22.35	U	1
Alpha-BHC	319-84-6	U	0.0503	0.0102	ug/L	03.12.15 22.35	U	1
Alpha-Chlordane	5103-71-9	U	0.0503	0.00221	ug/L	03.12.15 22.35	U	1
Beta-BHC	319-85-7	**0.0288**	0.0503	0.00231	ug/L	03.12.15 22.35	JF	1
Delta-BHC	319-86-8	**0.0175**	0.0503	0.00201	ug/L	03.12.15 22.35	JF	1
Dieldrin	60-57-1	U	0.101	0.00432	ug/L	03.12.15 22.35	U	1
Endosulfan I	959-98-8	U	0.0503	0.00241	ug/L	03.12.15 22.35	U	1
Endosulfan II	33213-65-9	U	0.101	0.00452	ug/L	03.12.15 22.35	U	1
Endosulfan Sulfate	1031-07-8	U	0.101	0.00704	ug/L	03.12.15 22.35	UF	1
Endrin	72-20-8	U	0.101	0.00462	ug/L	03.12.15 22.35	U	1
Endrin Aldehyde	7421-93-4	U	0.101	0.00864	ug/L	03.12.15 22.35	UF	1
Endrin Ketone	53494-70-5	U	0.101	0.00452	ug/L	03.12.15 22.35	U	1
Gamma-BHC (Lindane)	58-89-9	**0.00784**	0.0503	0.00161	ug/L	03.12.15 22.35	J	1
Gamma-Chlordane	5103-74-2	U	0.0503	0.00181	ug/L	03.12.15 22.35	U	1
Heptachlor	76-44-8	U	0.0503	0.00291	ug/L	03.12.15 22.35	U	1
Heptachlor Epoxide	1024-57-3	U	0.0503	0.00281	ug/L	03.12.15 22.35	U	1
Methoxychlor	72-43-5	U	0.503	0.0289	ug/L	03.12.15 22.35	U	1
Chlordane	12789-03-6	U	0.503	0.0968	ug/L	03.12.15 22.35	U	1
Toxaphene	8001-35-2	U	2.51	0.425	ug/L	03.12.15 22.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	37	%	27-135	03.12.15 22.35	
Decachlorobiphenyl	2051-24-3	86	%	26-154	03.12.15 22.35	

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Sample Id: **MW-20** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-021 Date Collected: 03.05.15 18.23

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

Tech: VBR % Moisture:

Analyst: VIC Date Prep: 03.10.15 17.00

Seq Number: 963662

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	03.12.15 22.55	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	03.12.15 22.55	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	03.12.15 22.55	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	03.12.15 22.55	U	1
Alpha-BHC	319-84-6	**0.0106**	0.0500	0.0101	ug/L	03.12.15 22.55	J	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	03.12.15 22.55	U	1
Beta-BHC	319-85-7	**4.71**	1.00	0.0460	ug/L	03.13.15 13.39	DF	20
Delta-BHC	319-86-8	**0.0521**	0.0500	0.00200	ug/L	03.12.15 22.55	F	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	03.12.15 22.55	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	03.12.15 22.55	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	03.12.15 22.55	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	03.12.15 22.55	UF	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	03.12.15 22.55	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	03.12.15 22.55	UF	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	03.12.15 22.55	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0171**	0.0500	0.00160	ug/L	03.12.15 22.55	J	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	03.12.15 22.55	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	03.12.15 22.55	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	03.12.15 22.55	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	03.12.15 22.55	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	03.12.15 22.55	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	03.12.15 22.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	41	%	27-135	03.12.15 22.55	
Decachlorobiphenyl	2051-24-3	80	%	26-154	03.12.15 22.55	

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Sample Id: **MW-21** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-022 Date Collected: 03.05.15 17.21

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

Tech: VBR % Moisture:

Analyst: VIC Date Prep: 03.10.15 17.00

Seq Number: 963662

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	03.12.15 23.15	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	03.12.15 23.15	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	03.12.15 23.15	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	03.12.15 23.15	U	1
Alpha-BHC	319-84-6	**0.0809**	0.0500	0.0101	ug/L	03.12.15 23.15		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	03.12.15 23.15	U	1
Beta-BHC	319-85-7	**3.44**	0.500	0.0230	ug/L	03.13.15 13.59	DF	10
Delta-BHC	319-86-8	**0.283**	0.0500	0.00200	ug/L	03.12.15 23.15	F	1
Dieldrin	60-57-1	**0.0209**	0.100	0.00430	ug/L	03.12.15 23.15	J	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	03.12.15 23.15	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	03.12.15 23.15	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	03.12.15 23.15	UF	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	03.12.15 23.15	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	03.12.15 23.15	UF	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	03.12.15 23.15	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0880**	0.0500	0.00160	ug/L	03.12.15 23.15		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	03.12.15 23.15	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	03.12.15 23.15	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	03.12.15 23.15	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	03.12.15 23.15	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	03.12.15 23.15	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	03.12.15 23.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	47	%	27-135	03.12.15 23.15	
Decachlorobiphenyl	2051-24-3	88	%	26-154	03.12.15 23.15	

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Sample Id: **MW-22** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-023 Date Collected: 03.06.15 09.02

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

Tech: VBR % Moisture:

Analyst: VIC Date Prep: 03.10.15 17.00

Seq Number: 963662

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	03.12.15 23.35	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	03.12.15 23.35	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	03.12.15 23.35	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	03.12.15 23.35	U	1
Alpha-BHC	319-84-6	**0.477**	0.0500	0.0101	ug/L	03.12.15 23.35		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	03.12.15 23.35	U	1
Beta-BHC	319-85-7	**21.6**	2.50	0.115	ug/L	03.13.15 14.19	DF	50
Delta-BHC	319-86-8	**9.53**	2.50	0.100	ug/L	03.13.15 14.19	DF	50
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	03.12.15 23.35	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	03.12.15 23.35	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	03.12.15 23.35	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	03.12.15 23.35	UF	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	03.12.15 23.35	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	03.12.15 23.35	UF	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	03.12.15 23.35	U	1
Gamma-BHC (Lindane)	58-89-9	**0.204**	0.0500	0.00160	ug/L	03.12.15 23.35		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	03.12.15 23.35	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	03.12.15 23.35	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	03.12.15 23.35	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	03.12.15 23.35	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	03.12.15 23.35	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	03.12.15 23.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	52	%	27-135	03.12.15 23.35	
Decachlorobiphenyl	2051-24-3	93	%	26-154	03.12.15 23.35	

Certificate of Analytical Results 503521

Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id: **MW-23** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-024 Date Collected: 03.05.15 11.05

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

Tech: VBR % Moisture:

Analyst: VIC Date Prep: 03.10.15 17.00

Seq Number: 963662

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	03.12.15 23.55	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	03.12.15 23.55	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	03.12.15 23.55	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	03.12.15 23.55	U	1
Alpha-BHC	319-84-6	**0.0189**	0.0500	0.0101	ug/L	03.12.15 23.55	J	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	03.12.15 23.55	U	1
Beta-BHC	319-85-7	**4.63**	1.00	0.0460	ug/L	03.13.15 14.39	DF	20
Delta-BHC	319-86-8	**0.0316**	0.0500	0.00200	ug/L	03.12.15 23.55	JF	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	03.12.15 23.55	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	03.12.15 23.55	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	03.12.15 23.55	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	03.12.15 23.55	UF	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	03.12.15 23.55	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	03.12.15 23.55	UF	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	03.12.15 23.55	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0528**	0.0500	0.00160	ug/L	03.12.15 23.55		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	03.12.15 23.55	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	03.12.15 23.55	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	03.12.15 23.55	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	03.12.15 23.55	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	03.12.15 23.55	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	03.12.15 23.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	60	%	27-135	03.12.15 23.55	
Decachlorobiphenyl	2051-24-3	85	%	26-154	03.12.15 23.55	

Certificate of Analytical Results 503521

Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id: **MW-24** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-025 Date Collected: 03.03.15 14.53

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

Tech: VBR % Moisture:

Analyst: CLAR Date Prep: 03.10.15 17.00

Seq Number: 963662

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	03.13.15 00.16	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	03.13.15 00.16	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	03.13.15 00.16	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	03.13.15 00.16	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	03.13.15 00.16	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	03.13.15 00.16	U	1
Beta-BHC	319-85-7	**0.00410**	0.0500	0.00230	ug/L	03.13.15 00.16	JF	1
Delta-BHC	319-86-8	U	0.0500	0.00200	ug/L	03.13.15 00.16	UF	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	03.13.15 00.16	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	03.13.15 00.16	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	03.13.15 00.16	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	03.13.15 00.16	UF	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	03.13.15 00.16	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	03.13.15 00.16	UF	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	03.13.15 00.16	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	03.13.15 00.16	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	03.13.15 00.16	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	03.13.15 00.16	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	03.13.15 00.16	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	03.13.15 00.16	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	03.13.15 00.16	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	03.13.15 00.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	45	%	27-135	03.13.15 00.16	
Decachlorobiphenyl	2051-24-3	88	%	26-154	03.13.15 00.16	

Certificate of Analytical Results 503521

Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id: **Equipment Blank** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-026 Date Collected: 03.06.15 09.41

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

Tech: VBR % Moisture:

Analyst: VIC Date Prep: 03.10.15 17.00

Seq Number: 963662

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	03.13.15 00.36	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	03.13.15 00.36	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	03.13.15 00.36	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	03.13.15 00.36	U	1
Alpha-BHC	319-84-6	U	0.0500	0.0101	ug/L	03.13.15 00.36	U	1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	03.13.15 00.36	U	1
Beta-BHC	319-85-7	**0.00710**	0.0500	0.00230	ug/L	03.13.15 00.36	JF	1
Delta-BHC	319-86-8	**0.00340**	0.0500	0.00200	ug/L	03.13.15 00.36	JF	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	03.13.15 00.36	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	03.13.15 00.36	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	03.13.15 00.36	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	03.13.15 00.36	UF	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	03.13.15 00.36	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	03.13.15 00.36	UF	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	03.13.15 00.36	U	1
Gamma-BHC (Lindane)	58-89-9	U	0.0500	0.00160	ug/L	03.13.15 00.36	U	1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	03.13.15 00.36	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	03.13.15 00.36	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	03.13.15 00.36	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	03.13.15 00.36	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	03.13.15 00.36	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	03.13.15 00.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	40	%	27-135	03.13.15 00.36	
Decachlorobiphenyl	2051-24-3	93	%	26-154	03.13.15 00.36	

Certificate of Analytical Results 503521

Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id: **MW-10 (Duplicate)** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-027 Date Collected: 03.05.15 15.56

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

Tech: VBR % Moisture:

Analyst: VIC Date Prep: 03.10.15 17.00

Seq Number: 963662

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	03.13.15 00.56	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	03.13.15 00.56	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	03.13.15 00.56	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	03.13.15 00.56	U	1
Alpha-BHC	319-84-6	**0.197**	0.0500	0.0101	ug/L	03.13.15 00.56		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	03.13.15 00.56	U	1
Beta-BHC	319-85-7	**4.91**	1.00	0.0460	ug/L	03.13.15 14.59	DF	20
Delta-BHC	319-86-8	**0.295**	0.0500	0.00200	ug/L	03.13.15 00.56	F	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	03.13.15 00.56	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	03.13.15 00.56	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	03.13.15 00.56	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	03.13.15 00.56	UF	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	03.13.15 00.56	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	03.13.15 00.56	UF	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	03.13.15 00.56	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0917**	0.0500	0.00160	ug/L	03.13.15 00.56		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	03.13.15 00.56	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	03.13.15 00.56	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	03.13.15 00.56	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	03.13.15 00.56	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	03.13.15 00.56	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	03.13.15 00.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	44	%	27-135	03.13.15 00.56	
Decachlorobiphenyl	2051-24-3	94	%	26-154	03.13.15 00.56	

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

QC Summary 503521

Environmental International Corporation

GPA-Bainbridge

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C
Seq Number: 963558 Matrix: Water Date Prep: 03.08.15
MB Sample Id: 689574-1-BLK LCS Sample Id: 689574-1-BKS LCSD Sample Id: 689574-1-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	<0.00370	0.500	0.394	79	0.342	68	20-152	14	30	ug/L	03.11.15 18:40	
4,4-DDE	<0.00350	0.500	0.386	77	0.364	73	18-147	6	30	ug/L	03.11.15 18:40	
4,4-DDT	<0.00490	0.500	0.387	77	0.355	71	18-164	9	30	ug/L	03.11.15 18:40	
Aldrin	<0.00260	0.500	0.291	58	0.310	62	11-131	6	30	ug/L	03.11.15 18:40	
Alpha-BHC	<0.0101	0.500	0.322	64	0.277	55	24-141	15	30	ug/L	03.11.15 18:40	
Alpha-Chlordane	<0.00220	0.500	0.382	76	0.349	70	37-135	9	30	ug/L	03.11.15 18:40	
Beta-BHC	<0.00230	0.500	0.336	67	0.173	35	12-162	64	30	ug/L	03.11.15 18:40	F
Delta-BHC	<0.00200	0.500	0.379	76	0.215	43	19-147	55	30	ug/L	03.11.15 18:40	F
Dieldrin	<0.00430	0.500	0.384	77	0.345	69	35-140	11	30	ug/L	03.11.15 18:40	
Endosulfan I	<0.00240	0.500	0.297	59	0.270	54	20-135	10	30	ug/L	03.11.15 18:40	
Endosulfan II	<0.00450	0.500	0.328	66	0.260	52	34-122	23	30	ug/L	03.11.15 18:40	
Endosulfan Sulfate	<0.00700	0.500	0.363	73	0.233	47	41-145	44	30	ug/L	03.11.15 18:40	F
Endrin	<0.00460	0.500	0.382	76	0.340	68	36-158	12	30	ug/L	03.11.15 18:40	
Endrin Aldehyde	<0.00860	0.500	0.325	65	0.170	34	28-135	63	30	ug/L	03.11.15 18:40	F
Endrin Ketone	<0.00450	0.500	0.379	76	0.274	55	42-134	32	30	ug/L	03.11.15 18:40	F
Gamma-BHC (Lindane)	<0.00160	0.500	0.358	72	0.285	57	23-143	23	30	ug/L	03.11.15 18:40	
Gamma-Chlordane	<0.00180	0.500	0.381	76	0.343	69	25-112	10	30	ug/L	03.11.15 18:40	
Heptachlor	<0.00290	0.500	0.348	70	0.344	69	20-142	1	30	ug/L	03.11.15 18:40	
Heptachlor Epoxide	<0.00280	0.500	0.369	74	0.326	65	32-134	12	30	ug/L	03.11.15 18:40	
Methoxychlor	<0.0288	0.500	0.403	81	0.348	70	36-169	15	30	ug/L	03.11.15 18:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	71		48		55		27-135	%	03.11.15 18:40
Decachlorobiphenyl	84		84		80		26-154	%	03.11.15 18:40

Environmental International Corporation

GPA-Bainbridge

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C
Seq Number: 963662 Matrix: Water Date Prep: 03.10.15
MB Sample Id: 689651-1-BLK LCS Sample Id: 689651-1-BKS LCSD Sample Id: 689651-1-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	<0.00370	0.500	0.400	80	0.351	70	20-152	13	30	ug/L	03.12.15 16:31	
4,4-DDE	<0.00350	0.500	0.373	75	0.363	73	18-147	3	30	ug/L	03.12.15 16:31	
4,4-DDT	<0.00490	0.500	0.380	76	0.353	71	18-164	7	30	ug/L	03.12.15 16:31	
Aldrin	<0.00260	0.500	0.289	58	0.311	62	11-131	7	30	ug/L	03.12.15 16:31	
Alpha-BHC	<0.0101	0.500	0.322	64	0.279	56	24-141	14	30	ug/L	03.12.15 16:31	
Alpha-Chlordane	<0.00220	0.500	0.371	74	0.350	70	37-135	6	30	ug/L	03.12.15 16:31	
Beta-BHC	<0.00230	0.500	0.332	66	0.171	34	12-162	64	30	ug/L	03.12.15 16:31	F
Delta-BHC	0.00650	0.500	0.378	76	0.216	43	19-147	55	30	ug/L	03.12.15 16:31	F
Dieldrin	<0.00430	0.500	0.380	76	0.347	69	35-140	9	30	ug/L	03.12.15 16:31	
Endosulfan I	<0.00240	0.500	0.293	59	0.271	54	20-135	8	30	ug/L	03.12.15 16:31	
Endosulfan II	<0.00450	0.500	0.327	65	0.259	52	34-122	23	30	ug/L	03.12.15 16:31	
Endosulfan Sulfate	<0.00700	0.500	0.374	75	0.240	48	41-145	44	30	ug/L	03.12.15 16:31	F
Endrin	<0.00460	0.500	0.381	76	0.348	70	36-158	9	30	ug/L	03.12.15 16:31	
Endrin Aldehyde	<0.00860	0.500	0.321	64	0.167	33	28-135	63	30	ug/L	03.12.15 16:31	F
Endrin Ketone	<0.00450	0.500	0.382	76	0.279	56	42-134	31	30	ug/L	03.12.15 16:31	
Gamma-BHC (Lindane)	<0.00160	0.500	0.357	71	0.286	57	23-143	22	30	ug/L	03.12.15 16:31	
Gamma-Chlordane	<0.00180	0.500	0.378	76	0.344	69	25-112	9	30	ug/L	03.12.15 16:31	
Heptachlor	<0.00290	0.500	0.360	72	0.354	71	20-142	2	30	ug/L	03.12.15 16:31	
Heptachlor Epoxide	<0.00280	0.500	0.364	73	0.327	65	32-134	11	30	ug/L	03.12.15 16:31	
Methoxychlor	<0.0288	0.500	0.417	83	0.362	72	36-169	14	30	ug/L	03.12.15 16:31	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	75		48		55		27-135	%	03.12.15 16:31
Decachlorobiphenyl	89		86		82		26-154	%	03.12.15 16:31

Environmental International Corporation

GPA-Bainbridge

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

Seq Number: 963662 Matrix: Ground Water Date Prep: 03.10.15

Parent Sample Id: 503521-019 MS Sample Id: 503521-019 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
4,4-DDD	<0.00370	1.00	0.900	90	20-152	ug/L	03.13.15 01:36	
4,4-DDE	<0.00350	1.00	0.708	71	18-147	ug/L	03.13.15 01:36	
4,4-DDT	<0.00490	1.00	0.844	84	18-164	ug/L	03.13.15 01:36	
Aldrin	<0.00260	1.00	0.464	46	11-131	ug/L	03.13.15 01:36	
Alpha-BHC	<0.0101	1.00	0.472	47	24-141	ug/L	03.13.15 01:36	
Alpha-Chlordane	<0.00220	1.00	0.660	66	37-135	ug/L	03.13.15 01:36	
Beta-BHC	0.102	1.00	0.807	71	12-162	ug/L	03.13.15 01:36	
Delta-BHC	<0.00200	1.00	0.798	80	19-147	ug/L	03.13.15 01:36	
Dieldrin	<0.00430	1.00	0.673	67	35-140	ug/L	03.13.15 01:36	
Endosulfan I	<0.00240	1.00	0.475	48	20-135	ug/L	03.13.15 01:36	
Endosulfan II	<0.00450	1.00	0.673	67	34-122	ug/L	03.13.15 01:36	
Endosulfan Sulfate	<0.00700	1.00	0.912	91	41-145	ug/L	03.13.15 01:36	
Endrin	<0.00460	1.00	0.779	78	36-158	ug/L	03.13.15 01:36	
Endrin Aldehyde	<0.00860	1.00	0.775	78	28-135	ug/L	03.13.15 01:36	
Endrin Ketone	<0.00450	1.00	0.855	86	42-134	ug/L	03.13.15 01:36	
Gamma-BHC (Lindane)	<0.00160	1.00	0.527	53	23-143	ug/L	03.13.15 01:36	
Gamma-Chlordane	<0.00180	1.00	0.650	65	25-112	ug/L	03.13.15 01:36	
Heptachlor	<0.00290	1.00	0.486	49	20-142	ug/L	03.13.15 01:36	
Heptachlor Epoxide	<0.00280	1.00	0.581	58	32-134	ug/L	03.13.15 01:36	
Methoxychlor	<0.0288	1.00	1.13	113	36-169	ug/L	03.13.15 01:36	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	44		27-135	%	03.13.15 01:36
Decachlorobiphenyl	92		26-154	%	03.13.15 01:36

XENCO LABORATORIES

XENCO LABORATORIES
CHAIN OF CUSTODY

COC# ATL300094
Page 1 of 3

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Environmental International Corporation
Address: 161 Kimball Bridge Road Suite 100
Results Sent to: Alan Sanders & Stephen Helmly
Email address: asanders@eicusa.com shelmly@eicusa.com
Contact Phone #: 770 772 7100 ext 225 Cell#:
Project Name (Site): GPA - Bainbridge
Project Number (ID): 400007-4.5
Regulatory Program:

Receiver's Initials/Temp: [illegible] / 2.1°C
Custody Seal(s): ___ Y N Lab Work Order # SU3521
P.O.# (if required): 901336
Field Comments / Lab Precautions: Need 3660B Sulfur Clean Up

Sampler(s): (signature) David Vargas [illegible]
Sampler(s): (printed) David Vargas, Stephen Helmly

Analysis Requested

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	8081B/3660B
1	MW-1		3/3/15 11:03	GW		X	1	X
2	MW-1A		3/3/15 12:07	GW		X	1	X
3	MW-2		3/2/15 16:37	GW		X	1	X
4	MW-3		3/3/15 8:44	GW		X	1	X
5	MW-4U		3/3/15 9:45	GW		X	1	X
6	MW-5A		3/3/15 12:57	GW		X	1	X
7	MW-5D		3/5/15 15:01	GW		X	1	X
8	MW-6		3/4/15 17:02	GW		X	1	X
9	MW-7		3/4/15 13:20	GW		X	1	X
10	MW-8		3/5/15 10:15	GW		X	1	X

Container Type: GA
Chemical Preservation Code:

1) Relinquished By: [illegible] Date / Time 3/6/15 15:39	2) Received By: [illegible] Date / Time 03/06/15 15:39	Delivered by: (Circle One) Fed Ex / UPS / Courier / Lab Pickup / Hand / Other
3) Relinquished By: Date / Time	4) Received By: Date / Time	Turnaround Time (business days) TAT Starts when samples are rec'd by 2PM
5) Relinquished By: Date / Time	6) Received By: Date / Time	___10 Days ; ✓ 5-7 Days; ___3 Days ___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)
Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH
Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

XENCO LABORATORIES

XENCO LABORATORIES
CHAIN OF CUSTODY

COC# ATL300095
Page 2 of 3
6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Environmental International Corporation	Receiver's Initials/Temp: MC / 2.1°C
Address: 161 Kimball Bridge Rd Suite 100	Custody Seal(s): ___ Y N Lab Work Order # 503521
Results Sent to: Alan Sanders Stephen Helmly	P.O.# (if required): 901336
Email address: asanders@eicusa.com shelmly@eicusa.com	Field Comments / Lab Precautions: Need 36608 Sulfur Cleanup
Contact Phone #: 770-772-7100 ext 225 Cell#:	
Project Name (Site): GPA - Bainbridge	
Project Number (ID): 400007 - 4-5	Container Type: GA
Regulatory Program:	Chemical Preservation Code:
Sampler(s): (signature) David Vargas Stephen Helmly	Sampler(s): (printed) David Vargas Stephen Helmly

Analysis Requested

8081B/36608

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	
1	MW-10		3/5/15 15:56	GW		X	1	X
2	MW-11		3/3/15 18:03	GW		X	1	X
3	MW-12		3/4/15 18:13	GW		X	1	X
4	MW-13		3/5/15 9:22	GW		X	1	X
5	MW-14		3/4/15 15:34	GW		X	1	X
6	MW-15		3/4/15 11:24	GW		X	1	X
7	MW-16		3/3/15 18:06	GW		X	1	X
8	MW-17		3/3/15 16:42	GW		X	1	X
9	MW-18		3/4/15 10:30	GW		X	1	X
10	MW-19		3/4/15 9:15	GW		X	1	X

1) Relinquished By:	Date / Time 3/6/15 15:30	2) Received By:	Date / Time 03/06/15 15:35
3) Relinquished By:	Date / Time	4) Received By:	Date / Time
5) Relinquished By:	Date / Time	6) Received By:	Date / Time

Delivered by: (Circle One)
Fed Ex / UPS / Courier / Lab Pickup / Hand / Other

Turnaround Time (business days)
TAT Starts when samples are rec'd by 2PM
___10 Days ; √ 5-7 Days; ___3 Days
___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)

Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH

Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

XENCO LABORATORIES
CHAIN OF CUSTODY

COC# ATL300096
Page 3 of 3

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Environmental International Corporation	Receiver's Initials/Temp: AF / 2.1°C
Address: 161 Kimball Bridge Rd suite 100	Custody Seal(s): ___ Y N Lab Work Order # 503521
Results Sent to: Alan Sanders Stephen Helmly	P.O.# (if required): 901336
Email address: asanders@eicusa.com shelmly@eicusa.com	Field Comments / Lab Precautions: Need 3660B Sulfur Cleanup
Contact Phone #: 770-772-7100 ext 225 Cell#:	
Project Name (Site): GPC Bainbridge	
Project Number (ID): 400007-4.5	Container Type: GA
Regulatory Program:	Chemical Preservation Code:
Sampler(s): (signature) David Vargas Stephen Helmly	Sampler(s): (printed) David Vargas & Stephen Helmly

Analysis Requested

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	8081B/3660B
1	MW-20		3/5/15 18:23	GW		X	1	X
2	MW-21		3/5/15 17:21	GW		X	1	X
3	MW-22		3/6/15 9:02	GW		X	1	X
4	MW-23		3/5/15 11:05	GW		X	1	X
5	MW-24		3/3/15 14:53	GW		X	1	X
6	Equipment Blank		3/6/15 9:41	W		X	1	X
7	MW-10 (Duplicate)		3/5/15 15:56	GW		X	1	X
8	Matrix Spike (MW-18)		3/4/15 10:30	GW		X	1	X
9	Matrix Spike (MW-22)		3/6/15 9:02	GW		X	1	X
10								

1) Relinquished By: Stephen Helmly Date / Time: 3/6/15 15:39	2) Received By: [signature] Date / Time: 3/6/15 15:39	Delivered by: (Circle One) Fed Ex / UPS / Courier / Lab Pickup / Hand / Other
3) Relinquished By: Date / Time	4) Received By: Date / Time	**Turnaround Time (business days)** TAT Starts when samples are rec'd by 2PM
5) Relinquished By: Date / Time	6) Received By: Date / Time	___10 Days ; √ 5-7 Days; ___3 Days ___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)

Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH

Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Florida Testing Services, LLC

Client: Environmental International Corporation

Date/ Time Received: 03/06/2015 03:39:00 PM

Work Order #: 503521

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?	**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**
#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? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	**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: 03/06/2015

Checklist reviewed by: Mike Kimmel Date: 03/07/2015

Certificate of Analytical Results 503521

Environmental International Corporation, Alpharetta, GA

GPA-Bainbridge

Sample Id: **MW-10 (Duplicate)** Matrix: Ground Water Date Received:03.06.15 15.39

Lab Sample Id: 503521-027 Date Collected: 03.05.15 15.56

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

Tech: VBR % Moisture:

Analyst: VIC Date Prep: 03.10.15 17.00

Seq Number: 963662

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
4,4-DDD	72-54-8	U	0.100	0.00370	ug/L	03.13.15 00.56	U	1
4,4-DDE	72-55-9	U	0.100	0.00350	ug/L	03.13.15 00.56	U	1
4,4-DDT	50-29-3	U	0.100	0.00490	ug/L	03.13.15 00.56	U	1
Aldrin	309-00-2	U	0.0500	0.00260	ug/L	03.13.15 00.56	U	1
Alpha-BHC	319-84-6	**0.197**	0.0500	0.0101	ug/L	03.13.15 00.56		1
Alpha-Chlordane	5103-71-9	U	0.0500	0.00220	ug/L	03.13.15 00.56	U	1
Beta-BHC	319-85-7	**4.91**	1.00	0.0460	ug/L	03.13.15 14.59	DF	20
Delta-BHC	319-86-8	**0.295**	0.0500	0.00200	ug/L	03.13.15 00.56	F	1
Dieldrin	60-57-1	U	0.100	0.00430	ug/L	03.13.15 00.56	U	1
Endosulfan I	959-98-8	U	0.0500	0.00240	ug/L	03.13.15 00.56	U	1
Endosulfan II	33213-65-9	U	0.100	0.00450	ug/L	03.13.15 00.56	U	1
Endosulfan Sulfate	1031-07-8	U	0.100	0.00700	ug/L	03.13.15 00.56	UF	1
Endrin	72-20-8	U	0.100	0.00460	ug/L	03.13.15 00.56	U	1
Endrin Aldehyde	7421-93-4	U	0.100	0.00860	ug/L	03.13.15 00.56	UF	1
Endrin Ketone	53494-70-5	U	0.100	0.00450	ug/L	03.13.15 00.56	U	1
Gamma-BHC (Lindane)	58-89-9	**0.0917**	0.0500	0.00160	ug/L	03.13.15 00.56		1
Gamma-Chlordane	5103-74-2	U	0.0500	0.00180	ug/L	03.13.15 00.56	U	1
Heptachlor	76-44-8	U	0.0500	0.00290	ug/L	03.13.15 00.56	U	1
Heptachlor Epoxide	1024-57-3	U	0.0500	0.00280	ug/L	03.13.15 00.56	U	1
Methoxychlor	72-43-5	U	0.500	0.0288	ug/L	03.13.15 00.56	U	1
Chlordane	12789-03-6	U	0.500	0.0963	ug/L	03.13.15 00.56	U	1
Toxaphene	8001-35-2	U	2.50	0.423	ug/L	03.13.15 00.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tetrachloro-m-xylene	877-09-8	44	%	27-135	03.13.15 00.56	
Decachlorobiphenyl	2051-24-3	94	%	26-154	03.13.15 00.56	

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

QC Summary 503521

Environmental International Corporation

GPA-Bainbridge

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

Seq Number: 963558 Matrix: Water Date Prep: 03.08.15

MB Sample Id: 689574-1-BLK LCS Sample Id: 689574-1-BKS LCSD Sample Id: 689574-1-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	<0.00370	0.500	0.394	79	0.342	68	20-152	14	30	ug/L	03.11.15 18:40	
4,4-DDE	<0.00350	0.500	0.386	77	0.364	73	18-147	6	30	ug/L	03.11.15 18:40	
4,4-DDT	<0.00490	0.500	0.387	77	0.355	71	18-164	9	30	ug/L	03.11.15 18:40	
Aldrin	<0.00260	0.500	0.291	58	0.310	62	11-131	6	30	ug/L	03.11.15 18:40	
Alpha-BHC	<0.0101	0.500	0.322	64	0.277	55	24-141	15	30	ug/L	03.11.15 18:40	
Alpha-Chlordane	<0.00220	0.500	0.382	76	0.349	70	37-135	9	30	ug/L	03.11.15 18:40	
Beta-BHC	<0.00230	0.500	0.336	67	0.173	35	12-162	64	30	ug/L	03.11.15 18:40	F
Delta-BHC	<0.00200	0.500	0.379	76	0.215	43	19-147	55	30	ug/L	03.11.15 18:40	F
Dieldrin	<0.00430	0.500	0.384	77	0.345	69	35-140	11	30	ug/L	03.11.15 18:40	
Endosulfan I	<0.00240	0.500	0.297	59	0.270	54	20-135	10	30	ug/L	03.11.15 18:40	
Endosulfan II	<0.00450	0.500	0.328	66	0.260	52	34-122	23	30	ug/L	03.11.15 18:40	
Endosulfan Sulfate	<0.00700	0.500	0.363	73	0.233	47	41-145	44	30	ug/L	03.11.15 18:40	F
Endrin	<0.00460	0.500	0.382	76	0.340	68	36-158	12	30	ug/L	03.11.15 18:40	
Endrin Aldehyde	<0.00860	0.500	0.325	65	0.170	34	28-135	63	30	ug/L	03.11.15 18:40	F
Endrin Ketone	<0.00450	0.500	0.379	76	0.274	55	42-134	32	30	ug/L	03.11.15 18:40	F
Gamma-BHC (Lindane)	<0.00160	0.500	0.358	72	0.285	57	23-143	23	30	ug/L	03.11.15 18:40	
Gamma-Chlordane	<0.00180	0.500	0.381	76	0.343	69	25-112	10	30	ug/L	03.11.15 18:40	
Heptachlor	<0.00290	0.500	0.348	70	0.344	69	20-142	1	30	ug/L	03.11.15 18:40	
Heptachlor Epoxide	<0.00280	0.500	0.369	74	0.326	65	32-134	12	30	ug/L	03.11.15 18:40	
Methoxychlor	<0.0288	0.500	0.403	81	0.348	70	36-169	15	30	ug/L	03.11.15 18:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	71		48		55		27-135	%	03.11.15 18:40
Decachlorobiphenyl	84		84		80		26-154	%	03.11.15 18:40

QC Summary 503521

Environmental International Corporation

GPA-Bainbridge

Analytical Method: **Organochlorine Pesticides by SW-846 8081B** Prep Method: SW3510C
Seq Number: 963662 Matrix: Water Date Prep: 03.10.15
MB Sample Id: 689651-1-BLK LCS Sample Id: 689651-1-BKS LCSD Sample Id: 689651-1-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	<0.00370	0.500	0.400	80	0.351	70	20-152	13	30	ug/L	03.12.15 16:31	
4,4-DDE	<0.00350	0.500	0.373	75	0.363	73	18-147	3	30	ug/L	03.12.15 16:31	
4,4-DDT	<0.00490	0.500	0.380	76	0.353	71	18-164	7	30	ug/L	03.12.15 16:31	
Aldrin	<0.00260	0.500	0.289	58	0.311	62	11-131	7	30	ug/L	03.12.15 16:31	
Alpha-BHC	<0.0101	0.500	0.322	64	0.279	56	24-141	14	30	ug/L	03.12.15 16:31	
Alpha-Chlordane	<0.00220	0.500	0.371	74	0.350	70	37-135	6	30	ug/L	03.12.15 16:31	
Beta-BHC	<0.00230	0.500	0.332	66	0.171	34	12-162	64	30	ug/L	03.12.15 16:31	F
Delta-BHC	<0.00200	0.500	0.378	76	0.216	43	19-147	55	30	ug/L	03.12.15 16:31	F
Dieldrin	<0.00430	0.500	0.380	76	0.347	69	35-140	9	30	ug/L	03.12.15 16:31	
Endosulfan I	<0.00240	0.500	0.293	59	0.271	54	20-135	8	30	ug/L	03.12.15 16:31	
Endosulfan II	<0.00450	0.500	0.327	65	0.259	52	34-122	23	30	ug/L	03.12.15 16:31	
Endosulfan Sulfate	<0.00700	0.500	0.374	75	0.240	48	41-145	44	30	ug/L	03.12.15 16:31	F
Endrin	<0.00460	0.500	0.381	76	0.348	70	36-158	9	30	ug/L	03.12.15 16:31	
Endrin Aldehyde	<0.00860	0.500	0.321	64	0.167	33	28-135	63	30	ug/L	03.12.15 16:31	F
Endrin Ketone	<0.00450	0.500	0.382	76	0.279	56	42-134	31	30	ug/L	03.12.15 16:31	
Gamma-BHC (Lindane)	<0.00160	0.500	0.357	71	0.286	57	23-143	22	30	ug/L	03.12.15 16:31	
Gamma-Chlordane	<0.00180	0.500	0.378	76	0.344	69	25-112	9	30	ug/L	03.12.15 16:31	
Heptachlor	<0.00290	0.500	0.360	72	0.354	71	20-142	2	30	ug/L	03.12.15 16:31	
Heptachlor Epoxide	<0.00280	0.500	0.364	73	0.327	65	32-134	11	30	ug/L	03.12.15 16:31	
Methoxychlor	<0.0288	0.500	0.417	83	0.362	72	36-169	14	30	ug/L	03.12.15 16:31	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	75		48		55		27-135	%	03.12.15 16:31
Decachlorobiphenyl	89		86		82		26-154	%	03.12.15 16:31

QC Summary 503521

Environmental International Corporation

GPA-Bainbridge

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

Seq Number: 963662 Matrix: Ground Water Date Prep: 03.10.15

Parent Sample Id: 503521-019 MS Sample Id: 503521-019 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
4,4-DDD	<0.00370	1.00	0.900	90	20-152	ug/L	03.13.15 01:36	
4,4-DDE	<0.00350	1.00	0.708	71	18-147	ug/L	03.13.15 01:36	
4,4-DDT	<0.00490	1.00	0.844	84	18-164	ug/L	03.13.15 01:36	
Aldrin	<0.00260	1.00	0.464	46	11-131	ug/L	03.13.15 01:36	
Alpha-BHC	<0.0101	1.00	0.472	47	24-141	ug/L	03.13.15 01:36	
Alpha-Chlordane	<0.00220	1.00	0.660	66	37-135	ug/L	03.13.15 01:36	
Beta-BHC	0.102	1.00	0.807	71	12-162	ug/L	03.13.15 01:36	
Delta-BHC	<0.00200	1.00	0.798	80	19-147	ug/L	03.13.15 01:36	
Dieldrin	<0.00430	1.00	0.673	67	35-140	ug/L	03.13.15 01:36	
Endosulfan I	<0.00240	1.00	0.475	48	20-135	ug/L	03.13.15 01:36	
Endosulfan II	<0.00450	1.00	0.673	67	34-122	ug/L	03.13.15 01:36	
Endosulfan Sulfate	<0.00700	1.00	0.912	91	41-145	ug/L	03.13.15 01:36	
Endrin	<0.00460	1.00	0.779	78	36-158	ug/L	03.13.15 01:36	
Endrin Aldehyde	<0.00860	1.00	0.775	78	28-135	ug/L	03.13.15 01:36	
Endrin Ketone	<0.00450	1.00	0.855	86	42-134	ug/L	03.13.15 01:36	
Gamma-BHC (Lindane)	<0.00160	1.00	0.527	53	23-143	ug/L	03.13.15 01:36	
Gamma-Chlordane	<0.00180	1.00	0.650	65	25-112	ug/L	03.13.15 01:36	
Heptachlor	<0.00290	1.00	0.486	49	20-142	ug/L	03.13.15 01:36	
Heptachlor Epoxide	<0.00280	1.00	0.581	58	32-134	ug/L	03.13.15 01:36	
Methoxychlor	<0.0288	1.00	1.13	113	36-169	ug/L	03.13.15 01:36	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Tetrachloro-m-xylene	44		27-135	%	03.13.15 01:36
Decachlorobiphenyl	92		26-154	%	03.13.15 01:36

XENCO LABORATORIES

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CHAIN OF CUSTODY

COC# ATL300094
Page 1 of 3

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Environmental International Corporation
Address: 161 Kimball Bridge Road Suite 100
Results Sent to: Alan Sanders & Stephen Helmly
Email address: asanders@eicusa.com shelmly@eicusa.com
Contact Phone #: 770 772 7100 ext 225 Cell#:
Project Name (Site): GPA - Bainbridge
Project Number (ID): 400007-4.5
Regulatory Program:

Receiver's Initials/Temp: [illegible] / 2.1°C
Custody Seal(s): ___ Y N Lab Work Order # SU3521
P.O.# (if required): 901336
Field Comments / Lab Precautions: Need 3660B Sulfur Clean Up

Sampler(s): (signature) David Vargas [illegible]
Sampler(s): (printed) David Vargas, Stephen Helmly

Analysis Requested

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	8081B/3660B
1	MW-1		3/3/15 11:03	GW		X	1	X
2	MW-1A		3/3/15 12:07	GW		X	1	X
3	MW-2		3/2/15 16:37	GW		X	1	X
4	MW-3		3/3/15 8:44	GW		X	1	X
5	MW-4U		3/3/15 9:45	GW		X	1	X
6	MW-5A		3/3/15 12:57	GW		X	1	X
7	MW-5D		3/5/15 15:01	GW		X	1	X
8	MW-6		3/4/15 17:02	GW		X	1	X
9	MW-7		3/4/15 13:20	GW		X	1	X
10	MW-8		3/5/15 10:15	GW		X	1	X

Container Type: GA
Chemical Preservation Code:

1) Relinquished By: [illegible] Date / Time 3/6/15 15:39	2) Received By: [illegible] Date / Time 03/06/15 15:39	Delivered by: (Circle One) Fed Ex / UPS / Courier / Lab Pickup / Hand / Other
3) Relinquished By: Date / Time	4) Received By: Date / Time	Turnaround Time (business days) TAT Starts when samples are rec'd by 2PM
5) Relinquished By: Date / Time	6) Received By: Date / Time	___10 Days ; ✓ 5-7 Days; ___3 Days ___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)
Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH
Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

XENCO LABORATORIES

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CHAIN OF CUSTODY

COC# ATL300095
Page 2 of 3

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Environmental International Corporation
Address: 161 Kimball Bridge Rd Suite 100
Results Sent to: Alan Sanders Stephen Helmly
Email address: asanders@eicusa.com shelmly@eicusa.com
Contact Phone #: 770-772-7100 ext 225 Cell#:
Project Name (Site): GPA - Bainbridge
Project Number (ID): 400007 - 4.5
Regulatory Program:

Receiver's Initials/Temp: [illegible] / 2.1°C
Custody Seal(s): ___ Y N Lab Work Order # 503521
P.O.# (if required): 901336
Field Comments / Lab Precautions: Neck 3660B Sulfur Cleanup

Sampler(s): (signature) David Vargas [signature]
Sampler(s): (printed) David Vargas Stephen Helmly

Analysis Requested

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	8081B/3660B
1	MW-10		3/5/15 15:56	GW		X	1	X
2	MW-11		3/2/15 18:03	GW		X	1	X
3	MW-12		3/4/15 18:13	GW		X	1	X
4	MW-13		3/5/15 9:22	GW		X	1	X
5	MW-14		3/4/15 15:34	GW		X	1	X
6	MW-15		3/4/15 11:24	GW		X	1	X
7	MW-16		3/3/15 18:06	GW		X	1	X
8	MW-17		3/3/15 16:42	GW		X	1	X
9	MW-18		3/4/15 10:30	GW		X	1	X
10	MW-19		3/4/15 9:15	GW		X	1	X

Container Type: GA
Chemical Preservation Code:

1) Relinquished By: [signature] Date / Time ~~3-15~~ 3/6/15 15:39	2) Received By: [signature] Date / Time 03/06/15 15:39	Delivered by: (Circle One) Fed Ex / UPS / Courier / Lab Pickup / Hand / Other
3) Relinquished By: Date / Time	4) Received By: Date / Time	Turnaround Time (business days) TAT Starts when samples are rec'd by 2PM
5) Relinquished By: Date / Time	6) Received By: Date / Time	___10 Days ; ✓ 5-7 Days; ___3 Days ___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)
Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH
Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

XENCO LABORATORIES
CHAIN OF CUSTODY

COC# ATL300096
Page 3 of 3

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Environmental International Corporation	Receiver's Initials/Temp: AF / 2.1°C
Address: 161 Kimball Bridge Rd suite 100	Custody Seal(s): ___ Y N Lab Work Order # 503521
Results Sent to: Alan Sanders Stephen Helmly	P.O.# (if required): 901336
Email address: asanders@eicusa.com shelmly@eicusa.com	Field Comments / Lab Precautions: Need 36608 Sulfur Cleanup
Contact Phone #: 770-772-7100 ext 225 Cell#:	
Project Name (Site): GPC Bainbridge	
Project Number (ID): 400007-4.5	Container Type: GA
Regulatory Program:	Chemical Preservation Code:
Sampler(s): (signature) David Vargas Stephen Helmly	Sampler(s): (printed) David Vargas Stephen Helmly

Analysis Requested

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	8081B/3660B
1	MW-20		3/5/15 18:23	GW		X	1	X
2	MW-21		3/5/15 17:21	GW		X	1	X
3	MW-22		3/6/15 9:02	GW		X	1	X
4	MW-23		3/5/15 11:05	GW		X	1	X
5	MW-24		3/3/15 14:53	GW		X	1	X
6	Equipment Blank		3/6/15 9:41	W		X	1	X
7	MW-10 (Duplicate)		3/5/15 15:56	GW		X	1	X
8	Matrix Spike (MW-18)		3/4/15 10:30	GW		X	1	X
9	Matrix Spike (MW-22)		3/6/15 9:02	GW		X	1	X
10								

1) Relinquished By: Stephen Helmly	Date / Time: 3/6/15 15:39	2) Received By: [signature]	Date / Time: 3/6/15 15:39
3) Relinquished By:	Date / Time:	4) Received By:	Date / Time:
5) Relinquished By:	Date / Time:	6) Received By:	Date / Time:

Delivered by: (Circle One)
Fed Ex / UPS / Courier / Lab Pickup / Hand / Other

Turnaround Time (business days)
TAT Starts when samples are rec'd by 2PM
___10 Days ; ✓ 5-7 Days; ___3 Days
___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)

Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH

Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Auber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Florida Testing Services, LLC

Client: Environmental International Corporation

Date/ Time Received: 03/06/2015 03:39:00 PM

Work Order #: 503521

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?	**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**
#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? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	**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: 03/06/2015

Checklist reviewed by: Mike Kimmel Date: 03/07/2015

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

FIFTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT H
MONTHLY SUMMARY OF HOURS INVOICED

Environmental International Corporation
GPA VIRP
October 2014 through March 2015

TASKS	Oct 14	Nov 14	Dec 14	Jan 15	Feb 15	Mar 15	TOTAL
Task 4.2 - Supplemental VIRP tasks	4	0	0	0	0	0	4
Task 4.5 - GW Remediation	205	158	244	136	124	298	1,165
Task 4.6 - Meetings & Site Visits	40	0	40	59	0	0	138
Task 4.7 - Health & Safety	46	20	1	0	53	0	120
Total Hours	**294**	**178**	**285**	**195**	**177**	**298**	**1,427**

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

FIFTH VIRP SEMI-ANNUAL PROGRESS REPORT

APPENDIX A
SITE CONCEPTUAL MODEL REPORT

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

SITE CONCEPTUAL MODEL

May 4, 2015

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

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Figure 2-1: Cross Section Trace Map

Figure 2-2: Cross Section A-A'

Figure 2-3: Cross Section B-B'

Figure 2-4: Cross Section C-C'

Figure 2-5: March 2013 Potentiometric Surface Map

Figure 2-6: June 2013 Potentiometric Surface Map

Figure 2-7: September 2013 Potentiometric Surface Map

Figure 2-8: December 2013 Potentiometric Surface Map

Figure 2-9: Land Use Map

Figure 2-10: Flint River Level Analysis

Figure 4-1: AOC-1 Soil Sampling Map

Figure 4-2: AOC-2 Soil Sampling Map

Figure 4-3: AOC-3 Soil Sampling Map

Figure 4-4: September 2014 Alpha-BHC Plume Map

Figure 4-5: September 2014 Beta-BHC Plume Map

Figure 4-6: September 2014 Delta-BHC Plume Map

Figure 5-1: Anaerobic Degradation Pathway

Figure 5-2: Aerobic Degradation Pathway

Figure 5-3: Total BHC Degradation Trend Analysis

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Attachment A: MW-23 Sieve Analysis Results

Attachment B: BHC Fact Sheet

LIST OF APPENDICIES

Appendix A: Potential Ecological Receptors Report

SECTION

1

1. INTRODUCTION

A Site Conceptual Model (SCM), also known as Conceptual Site Model, is a summary of site conditions as it pertains to a contaminant release. EIC submitted a preliminary SCM with the GPA Bainbridge site Voluntary Investigation and Remediation Plan (VIRP) application. This report serves as an update to the preliminary SCM based on knowledge that has been obtained through historical documents and site activities related to the objectives of the VIRP program.

This SCM report defines release sources, extent of groundwater contamination, likely fate and transport mechanisms, potential exposure pathways, and potential receptors that could be impacted by constituents of concern (COCs) at the site. This information serves as an important tool in developing site remedies. Since this report is a summary of known site information, as more information regarding site conditions is obtained, this report will be further updated.

Significant updates to the SCM since VIRP approval include:

- Updated hydrogeological cross sections
- Updated delineation of COC plumes in groundwater
- Delineation of COCs in soil in areas of concern (AOC)-2 and AOC-3
- Updated delineation of COCs in soil mound at AOC-1
- Implementation of engineering controls for AOC-1
- Flint River analysis study
- An updated understanding of degradation pathways and daughter products of BHC
- Groundwater COC concentration trend analysis

SECTION

2

2. SITE CHARACTERISTICS

2.1 Site Location and Physical Setting

The Georgia Ports Authority Bainbridge (GPA) Terminal facility is located at 1321 Spring Creek Road in Bainbridge, Decatur County, Georgia. The facility was constructed in 1958 and is located on an approximately 65-acre parcel along the Flint River in the Apalachicola-Chattahoochee-Flint Waterway, or Tri-Rivers System. Currently, the facility primarily handles dry bulk products for the agricultural industry. It consists of several warehouses, an office with truck scale, a maintenance shed, a dock - formerly used for off-loading barge cargo, a railroad spur and a forested area. The railroad spur within the property, which runs parallel to the Spring Creek Road, divides the site into North and South parcels. Figure 1-1 depicts the site layout.

2.1.1 Surrounding Properties

The GPA site property proper is bordered to the southeast by the Flint River, to the northwest by Spring Creek Road, to the northeast by Agrium US Inc. (Agrium) property, and to the southwest by an Ergon, Inc. (Ergon) asphalt and emulsions facility. The Agrium property was formerly a fertilizer facility but the operations were later terminated and all superstructures were demolished. The facility is currently vacant. A sulfur manufacturing facility owned and operated by Georgia Gulf Sulfur (GGS) is located to the northwest across Spring Creek Road. All of these facilities and the surrounding properties are zoned for heavy industry.

2.2 Site Background

GPA has historically utilized the facility to ship and receive a variety of bulk cargo via barge and truck traffic as well as store various agricultural products and commodities. Long- and short-term storage is provided in various buildings which collectively provide approximately 93,000 square feet (9,292 square meters) of covered storage. Currently the facility handles: nitrogen solution, gypsum, ammonium sulfate, urea, cottonseed, and cypress bark mulch. CSX Transportation provides Class I rail service from a railroad spur located at the facility.

2.3 Hydrogeology

The subsurface geology at the site was characterized by EIC utilizing monitoring well boring logs from historical wells and two wells installed by EIC. Based on these well boring logs, EIC correlated the lithology between selected wells and prepared three hydrogeological cross-sections to illustrate the subsurface at the site. Figure 2-1 depicts a plan view of the cross-section traces across the site. Cross Section A-A' extends primarily from northwest to southeast across the entire length of the GPA property and is illustrated in Figure 2-2. Cross Sections B-B' and C-C', illustrated in Figure 2-3 and Figure 2-4, respectively, extend from southwest to northeast. Cross Section B-B' extends along the northwestern GPA and northwestern Agrium property boundaries that are parallel to Spring Creek Road and Cross Section C-C' extends along the southeastern GPA property boundary parallel to the Flint River.

2.3.1 Stratigraphy

Based on EIC's interpretation of the aforementioned cross-sections, the site is generally underlain by unconsolidated alluvial deposits. The alluvial deposits primarily consist of a sand layer which has variable clay content and which includes discontinuous lenses of clay and gravel. Additionally, the sand layer is partially overlain by clay or sand-clay layers, as shown in Figure 2-2. This sand layer extends to a depth of over 50 feet, as indicated by the MW-6 well log.

As discussed in the VIRP application, there is a significant amount of backfill material from site planning and grading activities that were conducted in various phases during the past several years. The soil material generated during each phase was piled south of the RSW (EIC, 2012). A 2-foot thick engineered clay backfill is also located near the Flint River above the native sand layer. This clay layer appears to be related to an engineered foundation for a former building at the site.

The southeastern extent of the site is bordered by the Flint River. Based on Cross-Section C-C', an apparently natural deposit of sand and gravel exists beneath the predominant sand layer along the Flint River. Well logs indicate that the sand and gravel layer extends from well MW-12 southwestward to a point between wells MW-13 and MW-23. The top surface of the sand and gravel layer ranges in depth from 13 feet, at well MW-12, to approximately 22 feet at well MW-23.

Based on Cross-Sections A-A' and B-B' this sand and gravel layer extends approximately 200 feet to the north of the Flint River and is limited to the southeastern edge of the site near the Flint River. As indicated by the well boring log for MW-23, this sand and gravel layer is overlain by a clay lens that extends to a depth of 19 to 20 feet below ground surface. However, this clay lens does not extend to MW-12 and appears to be limited to the area where MW-23 is located.

In the northwestern portion of the property, the predominant sand layer is overlain by a combination of clay with sand and sand with clay layers. From MW-10 to MW-16, this layer is overlain by a separate sand layer. The thickness of the combined clay-with-sand and sand-with-clay layers varies from 10 to 30 feet.

2.3.2 Groundwater Flow

2.3.2.1 Potentiometric Surface

To develop a greater understanding of the groundwater conditions, EIC reviewed the complete 2013 seasonal cycle of the potentiometric surface at the site. Figures 2-5 through 2-8 illustrate the potentiometric surface during March 2013, June 2013, September 2013, and December 2013, respectively. These figures were developed utilizing groundwater gauging and top-of-casing (TOC) elevation data listed in Table 2-1. From these figures, it is apparent that the predominant groundwater flow direction is from the northwest to the southeast across the site towards the Flint River.

From the data compiled from the four gauging events as well as other site activities, EIC made several observations of the site hydrogeology characteristics. These observations are discussed in the subsections below.

2.3.2.2 Hydraulic Gradient Determination

EIC calculated the average hydraulic gradient by utilizing the September 2013 potentiometric surface map (Figure 2-8). From this figure, the ground water beneath the site appears to flow towards the south-southeast under a slope of approximately 0.0006 feet per feet (ft/ft). The ground-water flow direction appears to be similar to the local topographic slope toward the Flint River.

2.3.3 Hydraulic Conductivity and Groundwater Velocity

Utilizing wells MW-6, MW-17 and MW-21, EIC conducted slug tests for aquifer characterization tests at the site (EIC, 2014). EIC then utilized the test data to calculate the hydraulic conductivity based on the Kansas Geological Survey (KGS) Model for unconfined aquifers. The calculated hydraulic conductivity ranges from 1.400E-02 cm/sec (MW-6) to 6.572E-02 cm/sec (MW-21). Based on the calculated hydraulic conductivity, an average value of 2.345E-02 cm/sec was utilized for determining groundwater velocity.

Based sieve analysis data provided in Attachment A, EIC confirmed the soil type in the water bearing zone to be predominantly a poorly graded (medium) sand. The effective porosities in this type of medium sand would range from 0.16 to 0.46 (McWhorter, D. B., & Sunada, D. K., 1977). The arithmetic mean of the effective porosity was reportedly 0.32. Therefore, the average linear ground-water flow velocity estimated for the site ranges from approximately 27 to 126 feet per year with an average velocity of 45 feet per year.

2.3.4 Potential Impacts to Groundwater Flow

2.3.4.1 Horizontal Flow

Within the saturated soil interval across the site, it appears that horizontal groundwater flow is predominantly within the predominate sand layer. The only possible lithological exception that is evident in the well boring logs is a sand-with-clay layer near MW-10 and a clay layer near MW-23. The only known barrier to horizontal flow is a bulkhead along the Flint River which intersects the water table, as illustrated in Figure 2-2. The bulkhead is approximately 415-feet in length.

2.3.4.2 Vertical Flow

Portions of the site are overlain with impervious man-made surfaces. These include concrete and asphalt paved areas, buildings, and railroads. These impervious surfaces cover approximately 22.5% of the total site area. The locations of these impervious surfaces are identified in Figure 2-9. The impervious surfaces would limit the percolation of rainwater but the promote sheet flow into the lower surfaces. Utilizing Figure 2-9 and the Natural Resources Conservation Service (NRCS) TR-55 runoff calculation method, EIC estimated the groundwater recharge rate for the site. Table 2-2 summarizes these calculations. From Table 2-2, the estimated groundwater recharge for the site is 0.38 ft/year.

Referring to the stratigraphic cross-sections presented in Figures 2-2 through 2-4, it is apparent that the groundwater is substantially flowing through a relatively homogeneous and isotropic regime. As such, based on average linear ground-water flow velocities discussed in Section 2.3.3, horizontal flow would be the dominating transport mechanism for dissolved COCs discussed in this report.

2.3.5 River Level Analysis Study

The Flint River is located immediately to the south of and hydraulically down-gradient from the site. To evaluate the potential impact of the river on groundwater flow at the site, EIC conducted a river level analysis study for the Flint River and several monitoring wells near the river.

EIC utilized stilling well SW-1, illustrated in Figure 1-1, and monitoring wells MW-12, MW-13, and MW-23 in the study. Figure 2-10 illustrates the data collected from transducers placed in each respective well. Additionally, Figure 2-10 illustrates rain events that occurred at the site during the study. From Figure 2-10 it is apparent that the Flint River is consistently lower in elevation as compared to groundwater elevations near the river. Therefore, the Flint River appears to be a gaining stream along the down-gradient portion of the site.

Additionally, as the Flint River is hydraulically connected to Lake Seminole downstream, it is subject to elevation changes due to discharges through the Jim Woodruff dam. This can be observed in the periodic peaks and valleys in the water level data for both SW-1 and the USGS Flint River gauging station upstream from the site. Considering that all three monitoring wells (MW-12, MW-13, and MW-23) are located at relatively the same distance from the Flint River and

the respective screened intervals are at similar depth intervals and in similar lithology, it would be expected that the net effect of the river level rise and fall would have a similar effect on the water levels in all three wells. As illustrated in Figure 2-10, however, only at MW-13 was the water level most directly influenced by the tidal variations. This indicates that the bulkhead wall (illustrated in plan view in Figure 1-1, as well as in cross-sectional view in Figure 2-2) that exists down-gradient from wells MW-12 and MW-23 is acting as a partial hydraulic barrier between the GPA site and the river.

SECTION

3

3. COCs AND RELEASE SOURCES

3.1 Contaminants of Concern

Benzenehexachloride (BHC) is a chlorinated organic compound consisting of 8 isomers, of which only four (α, β, γ, δ) are constituents of concern (COC) under the VIRP. Under standard temperature and pressure conditions, BHC exists as a white crystalline solid of low solubility. γ-BHC acts as a pesticide and has been utilized in the form of lindane, a >99% γ-BHC product, and Technical-BHC, a mixture of BHC isomers (ASTDR, 2005).

3.1.1 Discovery of Contamination

In 1993, a Phase I assessment discovered BHC contamination on GPA property. Further investigation revealed contamination in several areas at the site in soil and groundwater. Investigation and remediation activities have proceeded since this assessment.

3.2 Release Sources

The source of the BHC contamination at the site is unknown but it is assumed to be a result of both on-site and off-site releases. Currently, however, the highest concentrations of COCs in groundwater are located up-gradient of the site, north of Spring Creek Road.

3.2.1 On-Site Sources

It appears that GPA received at least one shipment of BHC several decades ago. Historical records necessary to confirm this event have not been available. In the 1960's, an undisclosed location in the northwest portion of the site was reportedly used for the storage of pesticides. During site redevelopment in the early 1970s, paving materials from that location were reportedly excavated and transferred to an area located to the southern portion of the warehouse identified as the Rock Salt Warehouse (RSW) in Figure 1-1.

Prior to the construction of the RSW in 1988, additional soil from the RSW site leveling/grading operation was transferred to the same location as paving materials from the former pesticide storage area. The combination of the excavated material from both areas apparently resulted in soil contamination within a soil mound located to the south of the RSW. No records were

available to substantiate the transfer events. An estimation of the amount of soil piled south of the RSW is discussed in Section 4.1.2. Additionally, other customers have utilized GPA's facilities for the storage of pesticide materials. It is unclear if BHC was stored at or had the potential to migrate into soil from these on-site storage areas.

3.2.2 Off-Site Sources

From various testimonials, GPA has also learned that offsite facilities hydraulically upgradient of the GPA site used BHC in manufacturing or in the distribution of pesticide material. MACTEC, the former consulting firm that served GPA in 2003, reviewed two off-site facilities as potential source(s) of groundwater contamination present in the North Parcel of the GPA property. The first facility was identified as Georgia Gulf Sulfur (GGS) that manufactures sulfur-based pesticide products. Valbay, Inc., a warehouse facility located at the intersection of Spring Creek Road and Mount Olive Church Road, was identified as a second facility.

During its investigation, MACTEC interviewed Mr. Butch Wilson (Manager of Royster-Clark - an adjacent facility to GPA - with 37 years of service) and Mr. Artis Rambo (former long-term GPA employee). According to Mr. Wilson, GGS was historically handling pesticides at its plant whereas GPA had only one incidence of pesticide storage. Mr. Rambo corroborated Mr. Wilson's testimony about GGS operations and also stated that the Valbay warehouse did not store any pesticides.

During the VIRP implementation, EIC has observed a disproportionally large amount of groundwater contamination on the north edge of the site and Spring Creek Road. Further discussions on COC concentrations is included in Section 4. This indicates that a potential offsite source is contributing BHC to the COC plume observed at GPA.

3.2.3 Third-Party Sources

Considering that GPA's site is located in an agricultural area, it is also conceivable that other third-party sources could have contributed additional pesticides that are now found on the site. For instance, BHC, toxaphene, DDT, Aldrin, dieldrin, and other pesticides were historically applied to cotton fields to treat boll weevil infestations in Georgia (Haney, Lewis, and Lambert, 2009). Also, BHC, Guthion, DDT, and other pesticides were hydraulically sprayed on pine trees in the southeast to treat cone worms in the 1960s (Merkel, 1964). Other experiments were performed in the Southland Experiment Forest located in the general area where the GPA site is located (Kinloch and Stonecypher, 1969). GPA will continue to further review the potential impact of these sources.

SECTION

4

4. Extent of Contamination

Characterizing the extent of a release entails a definition of the horizontal and vertical extent of the COCs in a multimedia environment. Utilizing historical and current sampling data, EIC has determined the following definition of COCs in soil and groundwater at the site.

4.1 Soil

Based on historical sampling events, pesticide COCs discussed in Section 3.1 were detected in soil samples obtained from both the North and South parcels of the GPA property. Referring to Table 4-1 and Table 4-2, a total of 14 sampling events have been completed during the period from 1993 through 2012. From these sampling events, a total of 1,468 samples were collected for laboratory analysis from hundreds of soil borings and excavations. These sampling events identified several small "hot spots" in the North Parcel and three hot spots in the South Parcel.

4.1.1 Horizontal Delineation

According to the Removal Action and Completion Report (RACR), all soil contamination hot spots in the North Parcel were apparently delineated and remediated. Based on soil sampling in the South Parcel, three hot spots of soil contamination were identified (GPA, 2012). In preparing the VIRP, EIC designated these hot spots as three areas of concern (AOC). The first hot spot, designated as AOC-1, is a relatively large area to the south of the RSW that has been a focus of extensive investigation since 2009. The second hot spot, designated as AOC-2, is the subsurface beneath a concrete pad upon which Warehouse No. 3 rests and its surrounding pavement. The third hot spot, designated as AOC-3, is located along a portion of stormwater drainage ditches and drainage swales located adjacent to AOC-2.

Figures 4-1 through 4-3 identify sampling locations in AOC-1, AOC-2, and AOC-3 respectively. Tables 4-2 and 4-3 tabulate the associated sampling data for AOC-1 and AOC-3 respectively. From Figure 4-1 and Table 4-2, soil in AOC-1 has been horizontally delineated. In 2014, GPA installed a security fence along the perimeter of AOC-1 as an engineering control measure consistent with the approved VIRP. As illustrated in Figure 4-2, soil in AOC-2 was horizontally delineated and the prevailing soil contamination is covered by asphalt pavement and the concrete foundation of Warehouse No. 3. EIC has presented the AOC-2 data to EPD for review and

comments. From Figure 4-3 and Table 4-3, it is apparent that the soil in AOC-3 is also horizontally delineated. In a letter dated July 2, 2014 EPD concurred that the soils in AOC-3 were delineated and that this was currently not an area of concern.

4.1.2 Vertical Delineation

According to the RACR, the vertical extent of soil contamination in the North Parcel was delineated to below RRS levels since all soil material exceeding the RRS standards were excavated and transferred offsite to an approved landfill. In the South Parcel, based on additional soil investigations performed in 2011, GPA determined that the vertical extent of soil contamination at AOC-1 has been delineated except for two small areas located at depths ranging from 21 to 24 feet below grade (Table 4-2). The vertical extent of soil contamination at AOC-2 remains undefined. Since the soils in AOC-1 and AOC-2 are being managed with engineering and institutional controls, no further vertical delineation was proposed. Both the vertical and horizontal extent of COCs in AOC-3 were delineated.

4.2 Groundwater

Based on historical groundwater sampling events, pesticide COCs, discussed in Section 3.1, were detected in groundwater samples obtained from monitoring wells located both in the North and South parcels. A total of 20 groundwater sampling and gauging events have been completed during the period from 1993 to 2015. To-date, 26 monitoring wells have been installed at the site and currently 25 are being utilized in the site groundwater monitoring program. One well, identified as MW-9, was not located even after an extensive reconnaissance survey was conducted at the site.

4.2.1 Horizontal Delineation

To review the overall extent of groundwater contamination, EIC compiled laboratory analytical data from all sampling events completed at the site. The compiled analytical data is tabulated in Table 4-4. The latest COC maps developed from the data collected during the September 2014 sampling event are illustrated as Figures 4-12 through 4-14.

Based on these figures, the horizontal extent of the alpha, beta, delta, and gamma-BHC isomers have been delineated within the GPA's site boundary. It is also pertinent to note that the horizontal extent of alpha, beta, and delta-BHC isomers remained undefined in the hydraulically upgradient areas beyond the GPA property line.

4.2.2 Vertical Delineation

Vertical delineation at the site is completed by deep wells MW-14 and MW-17 at the site. These wells show that contamination is confined above 50 feet below ground surface.

SECTION

5

5. Fate and Transport

The main purpose of the environmental fate and transport evaluation is to assess the migration potential and related attenuation processes of the released COCs in a multimedia setting. Based on such an assessment, it is possible to establish potential exposure levels that are critical in establishing risk-based screening levels and cleanup goals. In this context, the following subsections present the latest understanding.

Typically, the BHCs identified at the site are subject to the following mechanisms:

- Physical separation of released product into other states of matter due to sorption, solubility and other equilibrium reactions. Considering that BHCs are comprised of solid material, most released material may remain in solid state mixed in with the native soil material.
- Dispersion involving horizontal and vertical spreading of partitioned or leached constituents.
- Diffusion consisting of spreading from concentration gradients.
- Biodegradation by native microorganisms along the migration pathway.
- Other attenuation processes that reduce the concentrations with time and distance.

5.1 Source Material

Based on interviews EIC conducted in August 2010, only one BHC storage event took place at the site in the 1960s. With the exception of potential impact from soil transfer activities that took place prior to 1988 (Refer to Section 2.1.1), no other onsite sources of contamination have been reported. As discussed in Section 3.2, however, there is a potential for off-site and third party BHC sources.

BHC is generally composed of insoluble crystalline solids which were generated during the production of the chemical pesticide Lindane. A chemical characteristic fact sheet for BHC is included as Attachment B.

5.2 Migration Pathways

In the VIRP, EIC identified three potential COC migration pathways for the α-BHC, β-BHC, and δ-BHC isomers. The following sections present the latest knowledgebase in this context.

5.2.1 Soil

Typically, surface runoff can carry soil contamination to drainage ditch or swales that ultimately discharge to surface waters. Contaminated sediments deposited in the drainage swales can leach contaminants to surface water. Based on sampling conducted in AOC-3, BHC was not found in the drainage ditch nor swales.

Considering that the BHC is relatively insoluble in water, soil leachate potential is minimal at the GPA site. The following three evaluations substantiated this finding.

5.2.1.1 Laboratory Testing Data

Synthetic Precipitation Leaching Procedure (SPLP) test data (GPA, 2012) from soil samples collected at the GPA property indicated that leachate from precipitation does not have a potential to exceed even Type 1 RRS levels. Toxicity Characteristic Leaching Procedure (TCLP) test data (GPA, 2012) indicated similar results.

5.2.1.2 Soil and Groundwater Analytical Results

Typically soil contamination in the vadose zone has a potential to leach contaminants from precipitation events or other driving forces. Such a leachate can migrate through the vadose zone by gravity and ultimately reach groundwater. The resulting contaminant concentrations in the groundwater would be typically based on the contaminant flux in the overlying zones. Although substantially higher concentrations of soil contamination were present in the South Parcel for several decades, however, the groundwater contamination have been historically low, indicating minimal soil leachate potential. This finding substantiates that the BHC material in the vadose zone is relatively insoluble during normal precipitation events.

5.2.1.3 Soil Leachate Potential Evaluation with comparative data

To further examine the soil leachate potential, EIC compared onsite soil and groundwater data to offsite data. Given similar hydrogeological conditions, as well as similar physical, chemical, and biological conditions in the vadose zone, contamination would be expected to have a similar leachate potential at both locations. EIC therefore compared the vadose zone soil contaminant concentrations to groundwater concentrations at two locations with similar subsurface stratigraphy. The first location was the MW-6 area, within the GPA property in the AOC-1 area, and the second location was the MW-22 area, located hydraulically upgradient of the GPA property to the north of Spring Creek Road.

The deepest soil sample at the MW-22 soil boring was collected from a depth of 10 feet below grade. As such, EIC utilized soil sample data from the sample that most closely represents the

same depth in the vicinity of MW-6 in the South Parcel. The water table elevations at MW-6 and MW-22 are 77.27 ft (21.41 ft below TOC) and 77.50 feet (24.79 feet below TOC), respectively (CH2M Hill, 2012).

Referring to Tables 2-6, β-BHC concentration in groundwater in MW-6 was as low as 1.6 parts per billion (ppb) although the soil concentrations in the vadose zone at an adjacent soil boring was 14,200 ppb (Sample ID E-16-H-121911-11-12 from Table 2-2) at a depth of 11 to 12 ft below ground surface (bgs). Also, in a soil boring from the adjacent sampling grid, the contaminant concentration was significantly higher at 1,580,000 ppb at 10 feet bgs. Meanwhile, the β-BHC concentration in the groundwater at MW-22 (hydraulically upgradient of GPA site) was as high as 33.2 ppb (Table 2-6). Such high groundwater concentration would be expected to result from a proportionately higher soil contamination in the overlying vadose zone at that location. Referring to the soil sampling data from the MW-22 soil boring, however, the β-BHC concentration in the overlying vadose zone was only 4.18 ppb at 10 feet below grade (GPA, 2012).

The striking contrast in soil and groundwater data between the on-site location at MW-6 versus hydraulically upgradient off-site location at MW-22 indicates that high soil contaminant levels in the vadose zone at GPA's south parcel do not equate to higher groundwater concentrations. Consequently, the groundwater contamination beneath the GPA property appears to have originated from a hydraulically upgradient source. Based on the aforementioned findings, it is also clear that potential leachate from the prevailing contaminated soils in AOC-1 and AOC-2 does not present a significant threat to groundwater.

5.2.2 Sediments

As discussed in Section 5.1, BHC source material was only stored at the GPA site several decades ago. No other source material has been transferred to the GPA site for storage. Also, as discussed in Section 5.2.1, BHC was not found in the drainage ditch and swales on GPA or Agrium property within AOC-3. As such, chronic discharge of BHC from GPA property into surface water or sediments is not a concern.

5.2.3 Groundwater

Typically, dissolved contaminants tend to move with the groundwater flow. Consequently, the peak plume (area of highest concentration) would be subject to a migration consistent with seepage velocity. Depending on the contaminant flux, dissolved contaminants can reach downgradient water wells or discharge to surface water. Based on data from historical groundwater sampling events, the downgradient edge of the dissolved BHC plume appears to be contained within the GPA property. In fact, the peak plume is actually diminishing over time. According to the 2009 Corrective Action Plan (CAP), no drinking water wells were found downgradient of the GPA site (CH2M Hill, 2009). As such, there appears to be no immediate down-gradient receptors of contaminated groundwater adjacent to the site.

5.2.4 Modeling

To further evaluate the migration potential in the vadose zone and groundwater, EIC is in the process of utilizing the Analytical Contaminant Transport Analysis System (ACTS) software tool. In addition, EIC will explore the application of a statistical analysis to determine the fate and transport of BHC in groundwater.

5.3 Degradation Pathways

Based on a cursory review of published literature, biodegradation appears to be a dominant attenuation mechanism for BHC. The four isomers of BHC (alpha, beta, delta, and gamma) are known to degrade under certain subsurface conditions. BHC bioremediation can occur either under anaerobic and aerobic conditions (Langenhoff et al, 2002). In general, under both anaerobic and aerobic conditions, the alpha and gamma isomers biodegrade more rapidly than the delta and beta isomers. The following subsections present additional insight into anaerobic and aerobic processes.

5.3.1 Anaerobic Degradation

According to Lal et al, (2010), *Dehalobacter sp., Clostridium sphenoides, Desulfovibrio africanus,* and other strains are known to degrade BHC under anaerobic conditions. These bacteria degrade BHC through different pathways which include dichloroelimination and dehydrochlorination (Figure 5-1) and require electron donors such as lactate, acetate, and methanol. This results in the generation of intermediate daughter products such as benzene and chlorobenzene. These daughter products, however, are known to degrade under aerobic conditions.

Although BHC can biodegrade under anaerobic conditions, several factors can constrain or enhance the anaerobic biodegradation process. Previous studies have shown that the presence of nitrate can inhibit anaerobic dechlorination of BHC. By contrast, methanogenic and sulfidogenic conditions at 20° and 30°C temperatures may accelerate the biodegradation of BHC (Middeldorp et al, 2005). Figure 5-1 illustrates the anaerobic degradation process for beta and gamma isomers.

5.3.2 Aerobic Degradation

Aerobic degradation of BHC isomers was observed with various strains of bacteria, most of which belong in the *Sphingomonadaceae* family (Lal et al, 2010). Several pathways exist for the strains capable of BHC degradation, *Sphingomonas* strains UT26, B90A, and BHC-A form pentachlorocyclohexane (PCCH) as a central metabolite for alpha, delta, and gamma isomers illustrated in Figure 5-2 (Lal et al, 2010). Both gamma and delta can be completely mineralized by strain UT26. Other strains can convert all BHC isomers into products that they cannot further metabolize such as tetrachlorocyclohexanediol (TCDL) and trichlorobenzene (Lal et al, 2010, Verma et al, 2014).

Factors that affect aerobic degradation rates include temperature and pH. Higher rates of degradation were observed at a pH range between 7.5 and 9.0 (Murthy et al, 2007, Chaudhary et

al, 2006). In addition, temperatures between 20°-30°C increase the aerobic degradation pathway (Murthy et al, 2007, Kumar et al, 2005).

5.3.3 Evaluation of Site Specific Biodegradation Potential

Considering that the COC concentrations are relatively low and contained, addition of cultured bacteria or amending temperature and pH is impractical. To evaluate site specific biodegradation potential, GPA will evaluate the potential to collect subsurface material to identify and enumerate the dominant strains of bacteria that may be persistent at the site.

5.4 Natural Attenuation Potential Evaluation with Empirical Data

In an attempt to define natural attenuation potential, EIC has evaluated empirical data collected at the site through historical site monitoring and the VIRP program. To accomplish this objective, EIC utilized the Man Kendall trend analysis tool. To factor out the potential effect of water level fluctuations, EIC only utilized analytical data corresponding to relatively same groundwater elevations. Since the Mann Kendall analysis tool requires at least four comparable sampling events for trend analysis, EIC utilized the March and April data from 2012 to 2015 for select wells. The only data that met these conditions were derived from samples collected in the spring season (March, April, and May). As more data is generated, trend analysis in other seasons can be evaluated as well.

Referring to Figure 5-3, the monitoring wells are arranged in order from left to right based on their location relative to the highest concentration at the site - near the Spring Creek Road - to the lowest concentration within the right of way along the Flint River. As such, wells MW-22 and MW-20 represent the up-gradient portion of the plume that contain the highest total BHC concentrations. Wells MW-15, MW-6, and MW-5A represent the mid-gradient portion of the plume and wells MW-8 and MW-12 represent the down-gradient portion of the plume.

From Figure 5-3, it is apparent that in all three sections of the plume, the concentrations are either decreasing, stable, or have no trend. This indicates that natural attenuation is occurring at a reasonable rate at the site.

SECTION

6

6. Potential Receptors

Potential receptors are the most important drivers in establishing cleanup goals for the site. The receptors include human and ecological receptors both on-site and down-gradient of the site.

6.1 Present and Future Land Use

The site and surrounding properties are zoned for heavy industrial use with no known plans for future rezoning. The Flint River is classified as a recreational waterway and has applicable water quality standards. The following sections describe potential receptors, given these conditions.

6.2 Human Health Receptors

According to Agency for Toxic Substance and Disease Registry (ATSDR), humans can be exposed to BHC only through direct contact such as inhalation, ingestion, or dermal contact of BHC contaminated media (ATSDR, 2005). ATSDR also states that BHC has not been produced or used in the United States since 1985. Considering that the only potential BHC storage took place in the 1960s and the soil-related activities took place in the 1980s, vapor-phase contamination is likely not persistent in surface soils, eliminating the inhalation hazard. The CAP states, "The alluvial soils and terrace deposits present in the site are not typically used as sources of drinking water." (CH2M Hill, 2009). There are no drinking water wells within the GPA property or within 0.5 to 1 miles from the affected area (HSI Listing) eliminating the ingestion hazard. Also, there is no evidence of surface water contamination resulting from the BHC contamination at GPA. Considering that the GPA has implemented engineering controls there is no direct human exposure to BHC at the site.

Future exposure would be limited to down-gradient contamination in the Flint River or from excavations of the controlled soil areas of the site. Based on the aforementioned engineering and institutional controls, surface water contamination is not a concern.

6.3 Ecological Receptors

According to ATSDR (2005), BHC in soil, sediments, and water, is broken down to less toxic substances by algae, fungi, and bacteria, over a period of time. To determine if there was a potential for rare, impaired, or critically impaired species to become receptors at the site, EIC conducted a spatial analysis of known species habitat areas and the current AOCs. This analysis was performed utilizing the Georgia Natural Heritage Program (GNHP) database for locations of rare, impaired, and critically impaired species as well as the Natural Resources Spatial Analysis Laboratory data for species habitat area.

From these data sources, EIC was able to determine that there are no rare, impaired, or critically impaired ecological receptors to the COCs, discussed in Section 4.0, at the site. A full description of each species that was analyzed, as well as maps which illustrate the locations of potential habitat areas for each species, are included in EIC's "Potential Ecological Receptors Report" in Appendix A.

SECTION

7

7. Summary

BHC was found soil and groundwater at the GPA Bainbridge Terminal, within groundwater of the adjacent Agrium property, and at hydraulically upgradient locations. GPA actively performed various site investigations and remedial activities.

A railroad spur within the property, which runs parallel to the Spring Creek Road, divides the site into North and South parcels. The contaminated soils in the North parcel were remediated by excavation and transfer to a local landfill. To address the prevailing soil and groundwater contamination at the South parcel of the GPA site, EIC prepared and implemented a VIRP approved by the EPD. The VIRP required delineation of soil in three AOCS and delineation of groundwater contamination. In addition, the VIRP required preparation of an updated SCM to define the fate and transport mechanisms at the site.

Based on the updated SCM, it is apparent that GPA has completed horizontal delineation of COCs in the soil matrix within each of the three AOCs. GPA has also implanted the tasks proposed in the VIRP for the management of contaminated soils within these AOCs.

GPA has completed horizontal delineation of the COCs within the GPA's site boundary. The horizontal extent of COCs in the hydraulically upgradient areas beyond the GPA property line, however, remains undefined.

Based on a fate and transport evaluation, it is clear that potential leachate from the prevailing contaminated soils in AOC-1 and AOC-2 do not present a significant threat to groundwater. Data from historical groundwater sampling events indicate that the downgradient edge of the dissolved BHC plume appears to be contained within the GPA property. In fact, the peak plume appears to be diminishing over time. Also, no immediate down-gradient receptors of contaminated groundwater were identified.

Considering that the GPA has implemented engineering controls, there is no direct human exposure potential to BHC at the site. Based on a field survey combined with GNHP evaluation, EIC determined that there were no known ecological receptors at the site.

Since MNA is the current remedial strategy for groundwater contamination, EIC conducted a cursory review of potential degradation pathways. Based on this review, biodegradation appears

to be a dominant attenuation mechanism for BHC. To evaluate site-specific biodegradation potential, GPA will evaluate the potential to collect subsurface material to identify and enumerate the dominant strains of bacteria that may be persistent at the site.

To further evaluate the migration potential in the vadose zone and groundwater, EIC is in the process of utilizing a contaminant transport software tool. In addition, EIC will explore application of a statistical analysis to determine the fate and transport of BHC in groundwater.

SECTION

8

8. References

Agency for Toxic Substances and Disease Registry (ASTDR), 2005. "*Toxicological Profile for Alpha-, Beta-, Gamma-, and Delta-Hexachlorocyclohexane."* Atlanta, Georgia, August 2005.

Chaudhary, P., Kumar, M., Khangarot, B., Kumar, A., 2006. "*Degradation and detoxification of hexachlorocyclohexane isomers by Pseudomonas aeruginosa ITRC-5*." International Biodeterioration & Biodegradation 57 (2006) 107–113.

CH2M Hill, 2009. "*Corrective Action Plan for the Bainbridge Terminal, Hazardous Site Inventory Number 10071, Bainbridge, Georgia."* Atlanta, Georgia, November 11, 2009.

Environmental International Corporation (EIC), 2012. "*VIRP Application, BHC Remediation, Bainbridge Terminal, Bainbridge, Georgia."* Alpharetta, Georgia, July 27, 2012.

Environmental International Corporation (EIC), 2014. "*Fourth VIRP Semi-annual Progress Report, Georgia Ports Authority – Bainbridge Terminal, HIS Site No. 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19, Bainbridge, Decatur County, Georgia"*. Bainbridge, Georgia, October 30, 2014.

Georgia Ports Authority (GPA), 2011. "*Removal Action Completion Report (RACR)."* Atlanta, Georgia, January 2011.

Kumar, M., Gupta, SK., Garg, SK., Kumar, A., 2006. "*Biodegradation of hexachlorocyclohexane-isomers in contaminated soils*." Soil Biology & Biochemistry 38 (2006) 2318–2327.

Lal, R., Pandey, G., Sharma, P., Kumari, K., Malhotra, S., Pandey, R., Raina, V., Kohler, HE., Holliger, C., Jackson, C., Oakeshott, JG., 2010. "*Biochemistry of Microbial Degradation of Hexachlorocyclohexaneand Prospects for Bioremediation."* Microbiology and Molecular Biology Reviews, (2010) p. 58–80.

Langenhoff, A., Staps, S., Pijis, C., Alphenaar, A., Zwelp, G., Rijnaarts, H., 2002. "*Intrinsic and stimulated in situ biodegradation of hexachlorocyclohexane (HCH)."* Water, Air, and Soil Pollution. 2002.

McWhorter, D. B., & Sunada, D. K., 1977. *Ground-water Hydrology and Hydraulics*. Water Resources Publications , Fort Collins, Colorado, 1977.

Middledorp, P., van Doesburg, W., Schraa, G., Stams, AJM., 2005. "*Reductive dechlorination of hexachlorocyclohexane (HCH) isomers in soil under anerobic conditions."* Biodegradation (2005).

Murthy, HMR., Manonmani, HK., 2007. "*Aerobic degradation of technical hexachlorocyclohexane by a defined microbial consortium*." Journal of Hazardous Materials, (2007).

Verma, H., Kumar, R., Oldach, P., Sangwan, N., Khurana, JP., Gilbert, JA., Lal, R., 2014. "*Comparative genomic analysis of nine Sphingobium strains: insights into their evolution and hecachlorochyclohexane (HCH) degradation pathways*." BMC Genomics, 2014.

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

SITE CONCEPTUAL MODEL REPORT

TABLES

Table 2-1: Historical Groundwater Potentiometric Surface Elevation Table

Well ID # (Well Diameter, in.)	Current TOC Elevation (ft.)	Groundwater Potentiometric Surface Elevation (ft.)														MW Min.*	MW Max.*	MW Range*	MW Avg.*	MW Var.*
		Aug-99	Sep-01	Apr-02	Apr-08	Aug-09	Jul-11	Apr-12	Mar-13	Jun-13	Sep-13	Dec-13	Mar-14	Sep-14	Mar-15					
MW-1 (2)	105.22	NM	NM	NM	79.59	78.22	76.32	77.48	79.63	78.07	79.60	78.00	78.77	77.51	79.11	76.32	79.63	3.31	78.39	1.13
MW-1A (2)	105.33	76.54	77.22	77.38	79.57	78.47	76.33	77.48	79.62	78.06	79.58	77.97	79.88	77.50	79.11	76.33	79.88	3.55	78.19	1.42
MW-2 (2)	98.86	76.48	77.13	77.36	79.45	78.16	78.25	NM	79.54	77.97	79.41	77.89	79.83	77.39	78.98	76.48	79.83	3.35	78.30	1.13
MW-3 (2)	97.12	76.42	77.11	77.39	NL	NL	NL	NL	NL	NL	79.20	77.78	79.69	77.28	78.95	76.42	79.69	3.27	77.98	1.35
MW-4U (2)	103.51	NI	77.12	77.3	79.64	78.36	NM	77.51	79.60	78.16	79.59	77.98	79.81	77.55	78.99	77.12	79.81	2.69	78.47	1.02
MW-5A (2)	96.67	NI	NM	NM	78.96	77.91	76.35	77.32	79.12	77.71	79.07	77.71	79.38	77.24	78.94	76.35	79.38	3.03	78.16	0.98
MW-5D (2)	96.12	NI	77.1	77.36	78.40	77.92	76.37	77.36	79.16	77.77	79.10	77.76	79.36	77.31	78.94	76.37	79.36	2.99	77.99	0.86
MW-6 (2)	102.25	NI	77.17	77.7	79.24	78.70	76.40	77.46	79.53	77.87	79.25	77.81	79.59	77.39	78.96	76.40	79.59	3.19	78.24	1.06
MW-7 (2)	98.1	NI	77.09	77.49	79.74	78.50	DRY	77.56	79.67	78.11	79.75	78.19	80.01	77.58	79.41	77.09	80.01	2.92	78.59	1.13
MW-8 (2)	93.54	NI	76.6	77.4	78.75	77.79	76.34	77.25	78.64	77.52	78.88	77.69	79.20	77.22	78.90	76.34	79.20	2.86	77.86	0.86
MW-9 (2)	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NA	NA	NA	NA	NA
MW-10 (2)	99.83	NI	NI	77.45	79.75	78.52	76.33	77.58	79.72	78.10	79.76	78.12	80.07	77.58	79.08	76.33	80.07	3.74	78.51	1.39
MW-11 (2)	100.87	NI	NI	77.46	79.88	76.67	79.57	77.6	79.83	78.16	79.83	78.1	80.1	77.58	79.50	76.67	80.10	3.43	78.69	1.46
MW-12 (2)	94.06	NI	NI	77.35	78.23	77.39	76.25	76.88	78.39	77.06	78.14	77.36	78.51	76.80	78.66	76.25	78.66	2.41	77.59	0.61
MW-13 (2)	93.55	NI	NI	77.38	78.10	77.13	DRY	DRY	78.53	76.98	77.87	76.98	78.31	76.58	78.47	76.58	78.53	1.95	77.63	0.50
MW-14 (2)	102.11	NI	NI	NI	79.30	78.16	76.36	77.45	78.72	76.72	78.97	77.95	78.59	76.86	79.11	76.36	79.30	2.94	78.02	1.07
MW-15 (2)	98.13	NI	NI	NI	78.88	78.01	DRY	77.40	79.24	78.10	79.18	78.10	79.35	77.37	78.93	77.37	79.35	1.98	78.46	0.57
MW-16 (2)	97.15	NI	NI	NI	79.66	78.50	76.45	77.56	79.73	78.18	79.91	78.12	79.99	77.71	79.22	76.45	79.99	3.54	78.64	1.33
MW-17 (2)	93.65	NI	NI	NI	79.03	77.90	76.24	75.26	79.17	77.58	79.04	77.80	79.30	77.25	79.12	75.26	79.30	4.04	77.97	1.78
MW-18 (2)	95.56	NI	NI	NI	NI	78.15	76.43	77.42	79.39	77.91	79.42	77.92	79.56	77.43	79.02	76.43	79.56	3.13	78.27	1.10
MW-19 (2)	96.6	NI	NI	NI	NI	78.07	76.35	77.35	79.40	77.80	79.47	77.89	79.68	77.39	79.06	76.35	79.68	3.33	78.25	1.23
MW-20 (2)	96.57	NI	NI	NI	NI	78.48	76.38	77.49	79.68	78.08	79.73	78.08	79.93	77.57	79.29	76.38	79.93	3.55	78.47	1.37
MW-21 (2)	97.55	NI	NI	NI	NI	78.41	76.34	77.53	79.71	78.05	79.79	78.08	79.98	77.53	79.36	76.34	79.98	3.64	78.48	1.44
MW-22 (2)	98.88	NI	NI	NI	NI	NI	NM	77.47	79.74	78.10	79.75	78.12	79.96	77.57	79.28	77.47	79.96	2.49	78.75	1.08
MW-23 (2)	93.61	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	77.03	78.73	77.03	78.73	1.70	77.88	1.45
MW-24 (2)	93.07	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	78.72	NA	NA	NA	NA	NA
Event Min.*[2]		76.42	76.60	77.30	78.10	76.67	76.24	75.26	78.39	76.72	77.87	76.98	78.31	76.58	78.47	**Global Min.*[3]**		75.26		
Event Max.*[2]		76.54	77.22	77.70	79.88	78.70	79.57	77.60	79.83	78.18	79.91	78.19	80.10	77.71	79.50	**Global Max.*[3]**		80.10		
Event Range*[2]		0.12	0.62	0.40	1.78	2.03	3.33	2.34	1.44	1.46	2.04	1.21	1.79	1.13	1.03	**Global Range*[3]**		4.84		
Event Avg.*[2]		76.48	77.07	77.42	79.19	78.07	76.65	77.32	79.35	77.82	79.32	77.89	79.52	77.34	79.03	**Global Avg.*[3]**		78.03		
Event Var.*[2]		0.00	0.04	0.01	0.31	0.25	0.78	0.26	0.19	0.17	0.27	0.08	0.28	0.08	0.06	**Global Var.*[3]**		1.12		

Notes:

NI - Not Installed

NL - Not Located

NA - Not Applicable

*** = Event Min, Max, Range, Avg., and Var.** - are the minimum, maximum, range, average, and total variance for each respective groundwater gauging event.

***[2] = MW Min., Max., Range, Avg., and Var.** - are the minimum, maximum, range, average, and total variance for each monitoring well throughout all gauging events from March 203 to March 2015 where available.

***[3]= Global Min., Max., Range, Avg., and Var.** - are the minimum, maximum, range, average, and total variance for all monitoring wells throughout all events from March 2013 to March 2015

Groundwater elevations prior to March 2013 are derived from historical groundwater monitoring reports by previous consultants

Top of casing (TOC) elevations are based on the most recent survey by Donaldson Garrett and Associates in April 2015

Table 2-2: GPA, Bainbridge Terminal, Estimated Groundwater Recharge Calculation

Given Parameters *				
Annual Precipitation (P)	63.12 in	→	5.26 ft	
Evapotranspiration (ET)	37.96 in	→	3.16 ft	
Estimated Parameters				
Drainage Area (DA)**	**113.95 acres**	→	**4,963,671 ft^2**	
Land Use Type Percentages *[3]				
Grassland (Gr%)	*30.5%*	→	*1,513,920 ft^2*	
Impervious Surface and Railroads (IS%)	*22.5%*	→	*1,116,826 ft^2*	
Woodland (Wd%)	*47.0%*	→	*2,332,925 ft^2*	
Calculated Parameters using TR-55 Method *[4]				
Composite Runoff Curve Number				
Land Use Type	**Hydrologic Soil Group**	**Curve Number**	**Composite Curve Number (CN)**	
Grassland (CN_{Gr})	B	71	→	**70**
Impervious Surface (CN_{IS})	B	98	→	
Woodland (CN_{Wd})	B	55	→	
Total Runoff (Q)				
Available Precipitation (P_a)	25.16 in	→	2.10 ft	
Runnoff (Q)	20.58 in	→	1.71 ft	
Estimated Groundwater Recharge Rate				
Groundwater Recharge Rate	4.58 in/year	→	0.38 ft/year	

Notes:

* = Precipitation and Evapotranspiration data were derived from Georgia Environmental Monitoring Network (GEMN) for the city of Attapulgus, Georgia from January 1 to December 31, 2013. Attapulgus, Georgia is approximately 12 miles south of Bainbridge, GA, where the site is located.

** = Drainage area was estimated utilizing GIS software and known historical site boundaries.

*[3] = Land use types were determined from aerial imagery available from USGS and site visit observations and were estimated utilizing GIS software. The total impervious surface at the site is the combined area of railroads, buildings, and paved areas of the site.

*[4] = TR-55 Method; Urban Hydrology for Small Watersheds, Appendix D and Appendix F, United States Department of Agriculture; Natural Resources Conservation Service -Technical Release 55; June 1986

TABLE 4-1 North Parcel Soil Sampling Results

Soil Pesticide Data Summary - Northern Sample Grid - Adjacent to Spring Creek Road (Excavation)

Georgia Ports Authority, Bainbridge Terminal

Sample Location	Sample Identification	Sample Depth (ft)	Sample Date	4,4'DDD	4,4'DDE	4,4'-DDT	Aldrin	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfa	Endrin	Endrin Aldehyde	Endrin Ketone	Heptachlor	Heptachlor Epox	Methoxychlor	Toxaphene	alpha-BHC	alpha-Clordane	beta-BHC	delta-BHC	gamma-BHC (Lin	gamma-Chlordan	Other Field Observation(s)
Proposed Site-Specific RRS Values (ug/kg):				*11,000*	*7,700*	*11,000*	*660*												*660*		*3,100*	*100*	*12,000*		
North Area	NA-E11-A-EW	0-2	16-Dec-2009	179 U	179 U	179 U	89.6 U	179 U	89.6 U	179 U	179 U	179 U	179 U	179 U	89.6 U	89.6 U	896 U	8960 U	89.6 U	89.6 U	**955**	89.6 U	89.6U	89.6 U	
North Area	NA-E11-A-F	2	16-Dec-2009	**7.79 J**	**9.72**	**24**	4.54 U	9.09 U	4.54 U	9.09 U	9.09 U	9.09 U	9.09 U	9.09 U	4.54 U	4.54 U	45.4 U	454 U	**7.32**	4.54 U	**58.3**	**3.89 J**	**2.52 J**	4.54 U	
North Area	NA-E11-A-NW	0-2	16-Dec-2009	**61.2 J**	**29.5 J**	**210**	22.5 U	45.1 U	22.5 U	45.1 U	45.1 U	45.1 U	**9.12 J**	45.1 U	22.5 U	22.5 U	225 U	2250 U	**12.5 J**	22.5 U	**224**	**19.3 J**	22.5 U	22.5 U	
North Area	NA-E11-A-SW	0-2	16-Dec-2009	470 U	470 U	470 U	235 U	470 U	235 U	470 U	470 U	470 U	470 U	470 U	235 U	235 U	2350 U	23500 U	**2370**	235 U	**391 J**	235 U	235 U	235 U	
North Area	NA-E11-A-WW	0-2	16-Dec-2009	**5.24**	**12.2**	**36**	2.31 U	4.62 U	2.31 U	4.62 U	4.62 U	4.62 U	4.62 U	4.62 U	2.31 U	2.31 U	23.1 U	231 U	**3.94**	2.31 U	**12.8**	2.31 U	**1.39 J**	2.31 U	
North Area	NA-E10-E-NW	0-2	17-Dec-2009	**525**	**56.2 J**	**72.4 J**	123 U	246 U	123 U	246 U	246 U	246 U	246 U	246 U	123 U	123 U	1230 U	12300 U	**99.9 J**	123 U	**1040**	**187**	**42.5 J**	123 U	
North Area	NA-E10-E-WW	0-2	17-Dec-2009	**51.2 J**	464 U	**252**	232 U	464 U	232 U	464 U	464 U	464 U	464 U	464 U	232 U	**64.0 J**	2320 U	23200 U	**87.3 J**	232 U	**1980**	**107 J**	232 U	232 U	
North Area	NA-E10-E-EW	0-2	17-Dec-2009	4.48 U	**1.46 J**	**2.14 J**	2.24 U	4.48 U	2.24 U	4.48 U	4.48 U	4.48 U	4.48 U	4.48 U	2.24 U	2.24 U	22.4 U	224 U	**1.06 J**	2.24 U	**1.91 J**	**0.528 J**	**0.539 J**	2.24 U	
North Area	NA-EI0-E-SW	0-2	17-Dec-2009	4.60 U	**1.16 J**	**5.44**	2.3 U	4.60 U	2.3 U	4.60 U	4.60 U	4.60 U	4.60 U	4.60 U	2.30 U	2.30 U	23.00 U	230 U	**0.799 J**	**2.30 J**	**22.60**	**0.544 J**	2.30 U	2.30 U	
North Area	NA-E10-E-F	2	17-Dec-2009	**509 J**	**4650 U**	**1870 J**	2330 U	4650 U	2330 U	4650 U	4650 U	4650 U	4650 U	4650 U	2330 U	2330 U	23300 U	233000 U	**642 J**	2330 U	**25800**	2330 U	2330 U	2330 U	
North Area	NA-E10-F-SW	0-2	17-Dec-2009	**72.7 J**	**26.8 J**	**181 J**	111 U	232 U	111 U	223 U	223 U	223 U	**30.1 J**	223 U	111 U	111 U	1110 U	11100 U	**178**	111 U	**948**	111 U	**45.5 J**	111 U	
North Area	NA-E10-F-WW	0-2	17-Dec-2009	**88.7**	237 U	**227 J**	119 U	237 U	119 U	237 U	237 U	237 U	**39.7 J**	237 U	119 U	119 U	1190 U	11900 U	**1440**	119 U	**1440**	**168**	**228**	119 U	
North Area	NA-E10-F-NW	0-2	17-Dec-2009	2260 U	2260 U	2260 U	1130 U	2260 U	1130 U	2260 U	2260 U	2260 U	2260 U	2260 U	1130 U	1130 U	11300 U	113000 U	**612 J**	1130 U	**13400**	**306 J**	1130 U	1130 U	
North Area	NA-E10-F-F	2	17-Dec-2009	**32.4**	229 U	**127 J**	114 U	229 U	114 U	229 U	229 U	229 U	229 U	229 U	114 U	114 U	1140 U	11400 U	**307**	114 U	**758**	**61.2 J**	**51.9 J**	114 U	
North Area	NA-E10-F-D	2	17-Dec-2009	**19.6 J**	**12.8 J**	**89.3**	44.6 U	89.3 U	44.6 U	89.3 U	89.3 U	89.3 U	89.3 U	89.3 U	44.6 U	44.6 U	446 U	4460 U	**146**	44.6 U	**577**	**38.4 J**	**24.9 J**	44.6 U	
North Area	NA-EB01	NA	17-Dec-2009	0.102 U	0.102 U	0.102 U	0.051 U	0.102 U	0.051 U	0.102 U	0.102 U	0.102 U	0.102 U	0.102 U	0.051 U	0.051 U	0.051 U	0.51 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	
North Area	NA-E10-B1-NW	0-2	30-Dec-2009	22.5 U	22.5 U	22.5 U	11.3 U	22.5 U	11.3 U	22.5 U	22.5 U	22.5 U	22.5 U	22.5 U	11.3 U	11.3 U	113 U	1130 U	**29**	11.3 U	**87.5**	**37.4**	**5.88 J**	11.3 U	
North Area	NA-E10-B1-WW	0-2	30-Dec-2009	23900 U	23900 U	23900 U	12000 U	23900 U	12000 U	23900 U	23900 U	23900 U	23900 U	23900 U	12000 U	12000 U	120000 U	1200000 U	**126000**	12000 U	**17400 J**	120000 U	**2520 J**	12000 U	
North Area	NA-E10-B1-F	2	30-Dec-2009	**391 J**	**72.5 J**	**1730**	262 U	524 U	262 U	262 U	524 U	524 U	524 U	524 U	262 U	262 U	2620 U	26200 U	**3870**	262 U	**2500**	**561**	**459**	262 U	
North Area	NA-E10-B2-WW	0-2	30-Dec-2009	48.0 U	**8.30 J**	**40.2 J**	24.0 U	48.0 U	24.0 U	48.0 U	48.0 U	48.0 U	48.0 U	48.0 U	24.0 U	24.0 U	240 U	2400 U	**46.6**	24.0 U	**247**	24.0 U	**11.5 J**	24.0 U	
North Area	NA-E10-B2-SW	0-2	30-Dec-2009	327 U	327 U	**85.7 J**	164 U	327 U	164 U	327 U	327 U	327 U	327 U	327 U	164 U	164 U	1640 U	16400 U	**2050**	164 U	**1810**	**121 J**	**332**	164 U	
North Area	NA-E10-B2-F	2	30-Dec-2009	**639**	263 U	**1190**	132 U	263 U	132 U	263 U	**40.1 J**	263 U	263 U	263 U	132 U	132 U	1320 U	13200 U	**1930**	132 U	**1890**	**483**	**329**	132 U	
North Area	NA-E10-C1-NW	0-2	30-Dec-2009	4.60 U	4.60 U	4.60 U	2.30 U	4.60 U	2.30 U	4.60 U	4.60 U	4.60 U	4.60 U	4.60 U	2.30 U	2.30 U	23.0 U	230 U	**11.9**	2.30 U	**49.9**	**22.9**	**3.34**	2.30 U	
North Area	NA-E10-C1-EW	0-2	30-Dec-2009	**1680**	**237 J**	**421**	121 U	243 U	121 U	243 U	**253**	243 U	243 U	243 U	121 U	121 U	1210 U	12100 U	**173**	121 U	**1890**	**523**	**58.8 J**	121 U	
North Area	NA-E10-C1-F	2	30-Dec-2009	**15**	**2.71 J**	**3.01 J**	2.28 U	4.56 U	2.28 U	4.56 U	**4.04 J**	4.56 U	4.56 U	4.56 U	2.28 U	2.28 U	22.8 U	228 U	**2.06 J**	2.28 U	**15.2**	**4.58**	**0.795 J**	2.28 U	
North Area	NA-E10-C2-SW	0-2	30-Dec-2009	**171**	**29.4 J**	**77.5**	26.9 U	53.7 U	26.9 U	53.7 U	**26.5 J**	53.7 U	53.7 U	53.7 U	26.9 U	26.9 U	269 U	2690 U	**24.9 J**	26.9 U	**346**	**16.8 J**	**7.63 J**	26.9 U	
North Area	NA-E10-C2-F	2	30-Dec-2009	**334**	**35.7 J**	**78.6**	23.9 U	47.8 U	23.9 U	47.8 U	**49.8**	47.8 U	47.8 U	47.8 U	23.9 U	23.9 U	239 U	2390 U	**117**	23.9 U	**241**	**59.8**	**12.5 J**	23.9 U	
North Area	NA-E10-A-NW	0-2	30-Dec-2009	908 U	**2320**	908 U	**207 J**	908 U	454 U	908 U	908 U	908 U	908 U	908 U	454 U	454 U	4540 U	**168000**	4540 U	4540 U	**1470**	4540 U	4540 U	4540 U	
North Area	NA-E10-A-SW	0-2	30-Dec-2009	**1420**	**401 J**	**8970**	476 U	951 U	476 U	951 U	951 U	951 U	951 U	951 U	476 U	476 U	4760 U	47600 U	**4280**	476 U	**9460**	**2480**	**822**	476 U	
North Area	NA-E10-A-EW	0-2	30-Dec-2009	22.9 U	**12.8 J**	22.9 U	11.5 U	22.9 U	11.5 U	22.9 U	22.9 U	22.9 U	22.9 U	22.9 U	11.5 U	11.5 U	115 U	**1510**	**21.6**	11.5 U	**65.3**	**11.0 J**	**11.8**	11.5 U	
North Area	NA-E10-A-WW	0-2	30-Dec-2009	454 U	**1200**	454 U	**41.6 J**	454 U	227 U	454 U	454 U	454 U	454 U	454 U	227 U	**71.8 J**	2270 U	**95300**	**43.5 J**	227 U	**305 J**	**85.9 J**	227 U	227 U	
North Area	NA-E10-A-F	2	30-Dec-2009	250 U	**152 J**	**1250**	125 U	250 U	125 U	250 U	250 U	250 U	250 U	250 U	125 U	**43.8J**	1250 U	**23900**	**1390**	125 U	**2540**	**1130**	**569**	125 U	
North Area	NA-E10-G-F	2	20-Jan-2010	444 U	444 U	444 U	222 U	444 U	222 U	444 U	444 U	444 U	444 U	444 U	222 U	222 U	2220 U	**9810 J**	**546**	222 U	**1110**	**379**	**145 J**	222 U	
North Area	NA-E10-L-F	2	20-Jan-2010	97.8 U	97.8 U	97.8 U	48.9 U	97.8 U	48.9 U	97.8 U	97.8 U	97.8 U	97.8 U	97.8 U	48.9 U	48.9 U	489 U	**1260 J**	**572**	48.9 U	**582**	**136**	**74.2**	48.9 U	
North Area	NA-E10-H-F	2	20-Jan-2010	492 U	492 U	**122 J**	246 U	492 U	246 U	492 U	492 U	492 U	492 U	492 U	246 U	246 U	2460 U	24600 U	**730**	246 U	**1360**	**345**	**148 J**	246 U	
North Area	NA-E10-O-F	2	20-Jan-2010	45.4 U	45.4 U	45.4 U	22.7 U	45.4 U	22.7 U	45.4 U	45.4 U	45.4 U	45.4 U	45.4 U	22.7 U	22.7 U	227 U	**818 J**	**67.7**	22.7 U	**241**	**126**	**28.3**	22.7 U	
North Area	NA-E10-Q-F	2	20-Jan-2010	44.5 U	44.5 U	44.5 U	22.3 U	44.5 U	22.3 U	44.5 U	44.5 U	44.5 U	44.5 U	44.5 U	22.3 U	22.3 U	223 U	**9810**	**11 J**	22.3 U	**109**	**21.6 J**	**9.39 J**	22.3 U	
North Area	NA-E10-R-F	2	20-Jan-2010	9.73 U	9.73 U	9.73 U	4.87 U	9.73 U	4.87 U	9.73 U	9.73 U	9.73 U	9.73 U	9.73 U	4.87 U	4.87 U	48.7 U	487 U	**7.99**	4.87 U	**39.4**	**6.57**	**3.28 J**	4.87 U	
North Area	NA-E10-Z-F	2	20-Jan-2010	9.15 U	9.15 U	9.15 U	4.58 U	9.15 U	4.58 U	9.15 U	9.15 U	9.15 U	9.15 U	9.15 U	4.58 U	4.58 U	45.8 U	**505**	**7.33**	4.58 U	**40**	**8.22**	**8.03**	4.58 U	
North Area	NA-E10-I-F	2	27-Jan-2010	**186 J**	474 U	**326 J**	237 U	474 U	237 U	474 U	474 U	474 U	474 U	474 U	237 U	237 U	2370 U	23700 U	**1690**	237 U	**1020**	**162 J**	**152 J**	237 U	
North Area	NA-E10-J-F	2	27-Jan-2010	229 U	229 U	**200 J**	114 U	229 U	114 U	229 U	229 U	229 U	229 U	229 U	114 U	114 U	1140 U	11400 U	**1090**	114 U	**558**	**150**	**134**	114 U	
North Area	NA-E10-K-F	2	27-Jan-2010	**31.6 J**	122 U	**44.1 J**	60.9 U	122 U	60.9 U	122 U	122 U	122 U	122 U	122 U	60.9 U	60.9 U	609 U	6090 U	**742**	60.9 U	**221**	**35.6 J**	**40 J**	60.9 U	
North Area	NA-E10-M-F	2	27-Jan-2010	43.5 U	43.5 U	43.5 U	21.8 U	43.5 U	21.8 U	43.5 U	43.5 U	43.5 U	43.5 U	43.5 U	21.8 U	21.8 U	218 U	2180 U	**18.9 J**	21.8 U	**47.3**	**8.8 J**	21.8 U	21.8 U	
North Area	NA-E10-N-F	2	27-Jan-2010	45.4 U	45.4 U	45.4 U	22.7 U	45.4 U	22.7 U	45.4 U	45.4 U	45.4 U	45.4 U	45.4 U	22.7 U	22.7 U	227 U	2270 U	**7.65 J**	22.7 U	**27.4 J**	22.7 U	22.7 U	22.7 U	
North Area	NA-E10-P-F	2	27-Jan-2010	48.6 U	48.6 U	48.6 U	24.3 U	48.6 U	24.3 U	48.6 U	48.6 U	48.6 U	48.6 U	48.6 U	24.3 U	24.3 U	243 U	2430 U	**15.8 J**	24.3 U	**15.8 J**	24.3 U	24.3 U	24.3 U	
North Area	NA-E10-DUP1		28-Jan-2010	43.9 U	43.9 U	43.9 U	22 U	43.9 U	22 U	43.9 U	43.9 U	43.9 U	43.9 U	43.9 U	22 U	22 U	220 U	2200 U	**32**	22 U	**78.3**	**26.5**	**6.72 J**	22 U	
North Area	NA-E10-DUP-2		28-Jan-2010	**37.6 J**	**41.9 J**	**202 J**	107 U	215 U	107 U	215 U	215 U	215 U	215 U	215 U	107 U	107 U	1070 U	10700 U	**77.3 J**	107 U	**1400**	**30.1 J**	**21.1 J**	107 U	
North Area	NA-E10-DUP3		28-Jan-2010	**22 J**	**15.7 J**	**137**	22.5 U	45 U	22.5 U	45 U	45 U	45 U	45 U	45 U	22.5 U	22.5 U	225 U	2250 U	**56.2**	22.5 U	**135**	**21.4 J**	**12.4 J**	22.5 U	
North Area	NA-E10-DUP4		28-Jan-2010	**80.8**	**55.4**	**638**	23 U	46.1 U	23 U	46.1 U	46.1 U	46.1 U	46.1 U	46.1 U	23 U	23 U	230 U	2300 U	**77.9**	23 U	**156**	**13.8 J**	**11.3 J**	23 U	
North Area	NA-E10-S-F		28-Jan-2010	45.2 U	45.2 U	45.2 U	22.6 U	45.2 U	22.6 U	45.2 U	45.2 U	45.2 U	45.2 U	45.2 U	22.6 U	22.6 U	226 U	2260 U	**8.84 J**	22.6 U	**40.8 J**	22.6 U	22.6 U	22.6 U	
North Area	NA-E10-S-MS		28-Jan-2010	**78.2**	**56.4**	**205**	**17.1 J**	**22.8 J**	**13 J**	**16.3 J**	**21.9 J**	**27.1 J**	**36.7 J**	**21.5 J**	**23.6**	**20.4 J**	**24.8 J**	2270 U	**1290 E**	**24.4**	**2210 E**	**283**	**450 E**	**23.7**	
North Area	NA-E10-S-MSD		28-Jan-2010	**120**	**97.3**	**319**	**23.3**	**30.7 J**	**23.2**	**25.4 J**	**34.2 J**	**36 J**	**51.8**	**32.5 J**	**36.2**	**32.1**	**38.4 J**	2270 U	**1440 E**	**38.4**	**2650 E**	**441 E**	**698 E**	**34.8**	
North Area	NA-E10-T-F		28-Jan-2010	**85.5**	**50.8**	**636**	23 U	46.1 U	23 U	46.1 U	46.1 U	46.1 U	46.1 U	46.1 U	23 U	23 U	230 U	2300 U	**53.2**	23 U	**190**	**15 J**	**8.2 J**	23 U	
North Area	NA-E10-U-F		28-Jan-2010	**10.4 J**	**9.37 J**	**63.7**	22.1 U	44.1 U	22.1 U	44.1 U	44.1 U	44.1 U	44.1 U	44.1 U	22.1 U	22.1 U	221 U	2210 U	**39.4**	22.1 U	**73.9**	**10.9 J**	**7.17 J**	22.1 U	
North Area	NA-E10-V-F		28-Jan-2010	4330 U	4330 U	**1630 J**	2160 U	4330 U	2160 U	4330 U	4330 U	4330 U	4330 U	4330 U	2160 U	2160 U	21600 U	216000 U	**34900**	2160 U	**44700**	**12000**	**10900**	2160 U	
North Area	NA-E10-W-F		28-Jan-2010	44.1 U	44.1 U	44.1 U	22.1 U	44.1 U	22.1 U	44.1 U	44.1 U	44.1 U	44.1 U	44.1 U	22.1 U	22.1 U	221 U	2210 U	**50.9**	22.1 U	**133**	**34.3**	**11.1 J**	22.1 U	
North Area	NA-E10-X-F		28-Jan-2010	455 U	455 U	**92.4 J**	227 U	455 U	227 U	455 U	455 U	455 U	455 U	455 U	227 U	227 U	2270 U	22700 U	**901**	227 U	**2050**	**205 J**	**171 J**	227 U	
North Area	NA-E10-X-MS		28-Jan-2010	**71.7 J**	**57.5 J**	**133 J**	227 U	455 U	227 U	455 U	455 U	455 U	455 U	455 U	227 U	227 U	2270 U	22700 U	**1520**	**78.4 J**	**1920**	**243**	**366**	227 U	
North Area	NA-E10-X-MSD		28-Jan-2010	**59.5 J**	**58.7 J**	**112 J**	227 U	455 U	227 U	455 U	455 U	455 U	455 U	455 U	227 U	227 U	2270 U	22700 U	**1270**	**94.8 J**	**1620**	**212 J**	**310**	**50.4 J**	
North Area	NA-E10-Y-F		28-Jan-2010	997 U	997 U	**227 J**	499 U	997 U	499 U	997 U	997 U	997 U	997 U	997 U	499 U	499 U	4990 U	49900 U	**2390**	499 U	**6420**	**174 J**	**235 J**	499 U	
North Area	NA-E10-Y-MS		28-Jan-2010	1000 U	1000 U	1000 U	500 U	1000 U	500 U	1000 U	1000 U	1000 U	1000 U	1000 U	500 U	500 U	5000 U	50000 U	**1240**	500 U	**523 J**	500 U	**142 J**	500 U	
North Area	NA-E10-Y-MSD		28-Jan-2010	1000 U	1000 U	1000 U	502 U	1000 U	502 U	1000 U	1000 U	1000 U	1000 U	1000 U	502 U	502 U	5020 U	50200 U	**1050**	502 U	**486 J**	502 U	**107 J**	502 U	
North Area	NA-E11-B-F	2	27-Jan-2010	8.72 U	8.72 U	**1.33 J**	4.36 U	8.72 U	4.36 U	8.72 U	8.72 U	8.72 U	8.72 U	8.72 U	4.36 U	4.36 U	43.6 U	436 U	**31**	4.36 U	**6.76 J**	4.36 U	**1.08 J**	4.36 U	
North Area	NA-E11-B-WW	0-2	27-Jan-2010	8.61 U	8.61 U	8.61 U	4.31 U	8.61 U	4.31 U	8.61 U	8.61 U	8.61 U	8.61 U	8.61 U	4.31 U	4.31 U	43.1 U	431 U	**1.19 J**	4.31 U	**2.06 J**	4.31 U	4.31 U	4.31 U	

TABLE 4-1 North Parcel Soil Sampling Results

Soil Pesticide Data Summary - Northern Sample Grid - Adjacent to Spring Creek Road (Excavation)

Georgia Ports Authority, Bainbridge Terminal

Sample Location	Sample Identification	Sample Depth (ft)	Sample Date	4,4'DDD	4,4'DDE	4,4'-DDT	Aldrin	Dieldrin	Endsulfan I	Endosulfan II	Endosulfan Sulfa	Endrin	Endrin Aldehyde	Endrin Ketone	Heptachlor	Heptachlor Epox	Methoxychlor	Toxaphene	alpha-BHC	alpha-Clordane	beta-BHC	delta-BHC	gamma-BHC (Lin	gamma-Chlordan	Other Field Observation(s)
Proposed Site-Specific RRS Values (ug/kg):				*11,000*	*7,700*	*11,000*	*660*												*660*		*3,100*	*100*	*12,000*		
North Area	NA-E11-C-EW	0-2	27-Jan-2010	1810 U	1810 U	292 J	906 U	1810 U	906 U	1810 U	1810 U	1810 U	1810 U	1810 U	906 U	906 U	9060 U	90600 U	906 U	906 U	**12300**	906 U	906 U	906 U	
North Area	NA-E11-C-F	2	27-Jan-2010	44.6 U	**16.2 J**	**55.6**	22.3 U	44.6 U	22.3 U	44.6 U	44.6 U	44.6 U	44.6 U	44.6 U	22.3 U	22.3 U	223 U	2230 U	**8.73 J**	22.3 U	**235**	**8.05 J**	22.3 U	22.3 U	
North Area	NA-E12-A-NW	0-2	19-Jan-2010	41.8 U	41.8 U	41.8 U	20.9 U	41.8 U	20.9 U	41.8 U	41.8 U	41.8 U	41.8 U	41.8 U	20.9 U	20.9 U	209 U	**9930**	**11.5 J**	20.9 U	**46.1**	**4.61 J**	**5.66 J**	20.9 U	
North Area	NA-E12-A-WW	0-2	19-Jan-2010	**27.3**	**13 J**	**22.5 J**	11.8 U	23.6 U	11.8 U	23.6 U	23.6 U	23.6U	23.6 U	23.6 U	11.8 U	**7.83 J**	118 U	1180 U	**51**	**3.31 J**	**142**	**104**	**13.8**	**7.94 J**	
North Area	NA-E12-A-F	2	19-Jan-2010	**1.32 J**	**1.44 J**	4.79 U	2.4 U	4.79 U	2.4 U	4.79 U	**0.947 J**	4.79 U	4.79 U	4.79 U	2.4 U	**0.599 J**	24 U	240 U	**1.68 J**	2.4 U	**19.2**	**6.23**	**0.58 J**	**0.863 J**	
North Area	NA-E12-B-NW	0-2	19-Jan-2010	**43.2 J**	**65.3**	**66.2**	24.3 U	48.7 U	24.3 U	48.7 U	**33.2 J**	48.7 U	48.7 U	48.7 U	24.3 U	24.3 U	243 U	2430 U	**29.6**	24.3 U	**211**	**13 J**	**11 J**	24.3 U	
North Area	NA-E12-B-EW	0-2	19-Jan-2010	**197**	**79.2**	**30.7 J**	25 U	49.9 U	25 U	49.9 U	**97.6**	49.9 U	49.9 U	49.9 U	25 U	25 U	250 U	2500 U	**116**	25 U	**175**	**258**	**51.9**	25 U	
North Area	NA-E12-B-F	2	19-Jan-2010	**652**	**122**	**49.4**	24.6 U	49.2 U	24.6 U	49.2 U	**250**	49.2 U	49.2 U	49.2 U	24.6 U	24.6 U	246 U	2460 U	**96.3**	24.6 U	**382**	**135**	**22.8 J**	**15 J**	
North Area	NA-E12-C-SW	0-2	19-Jan-2010	4.56 U	**1.39 J**	4.56 U	2.28 U	4.56 U	2.28 U	4.56 U	4.56 U	4.56 U	4.56 U	4.56 U	2.28 U	**1.85 J**	22.8 U	228 U	**1.56 J**	2.28 U	**13.1**	**2.08 J**	**1.59 J**	2.28 U	
North Area	NA-E12-C-WW	0-2	19-Jan-2010	4.6 U	**1.02 J**	4.6 U	2.3 U	4.6 U	2.3 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	2.3 U	**1.38 J**	23 U	230 U	**0.884 J**	2.3 U	**8.16**	**1.26 J**	**0.926 J**	2.3 U	
North Area	NA-E12-C-F	2	19-Jan-2010	**0.716 J**	5.06 U	5.06 U	2.53 U	5.06 U	2.53 U	5.06 U	5.06 U	5.06 U	5.06 U	5.06 U	2.53 U	2.53 U	25.3 U	253 U	2.53 U	2.53 U	**2.51 J**	2.53 U	2.53 U	2.53 U	
North Area	NA-E12-D-EW	0-2	19-Jan-2010	**40.5**	**62.4**	**35.5**	12.2 U	24.4 U	12.2 U	24.4 U	24.4 U	24.4 U	**4.18 J**	24.4 U	12.2 U	12.2 U	122 U	1220 U	**7.1 J**	12.2 U	**83.3**	**6.24 J**	**2.49 J**	**3.31 J**	
North Area	NA-E12-D-SW	0-2	19-Jan-2010	23.2 U	23.2 U	23.2 U	11.6 U	23.2 U	11.6 U	23.2 U	23.2 U	23.2 U	23.2 U	23.2 U	11.6 U	11.6 U	116 U	1160 U	**12.8**	11.6 U	**139**	**15.1**	**3.21 J**	11.6 U	
North Area	NA-E12-D-F	2	19-Jan-2010	4.89 U	4.89 U	4.89 U	2.44 U	4.89 U	2.44 U	4.89 U	4.89 U	4.89 U	4.89 U	4.89 U	2.44 U	2.44 U	24.4 U	244 U	2.44 U	2.44 U	**1.96J**	2.44 U	2.44 U	2.44 U	
North Area	NA-E13-A-NW	0-2	19-Jan-2010	4.74 U	4.74 U	4.74 U	2.37 U	4.74 U	2.37 U	4.74 U	4.74 U	4.74 U	4.74 U	4.74 U	2.37 U	2.37 U	23.7 U	237 U	**0.728 J**	2.37 U	**9.43**	2.37 U	**1.55 J**	2.37 U	
North Area	NA-E13-A-WW	0-2	19-Jan-2010	23.5 U	**6.88 J**	**15.4 J**	11.7 U	23.5 U	11.7 U	23.5 U	23.5 U	23.5 U	23.5 U	23.5 U	11.7 U	11.7 U	117 U	1170 U	**9.85 J**	11.7 U	**78.3**	**2.97 J**	**9.61 J**	11.7 U	
North Area	NA-E13-A-F	2	19-Jan-2010	**12.1 J**	**15.7 J**	**13.6 J**	22.1 U	44.3 U	22.1 U	44.3 U	44.3 U	44.3 U	44.3 U	44.3 U	22.1 U	22.1 U	221 U	2210 U	**18 J**	22.1 U	**210**	**9.65 J**	**6.51 J**	22.1 U	
North Area	NA-E13-B-EW	0-2	20-Jan-2010	**366**	**933**	**1690**	124 U	249 U	124 U	249 U	249 U	249 U	249 U	249 U	124 U	124 U	1240 U	12400 U	124 U	124 U	**123 J**	124 U	124 U	124 U	
North Area	NA-E13-B-F	2	20-Jan-2010	4.41 U	**2.56 J**	**1.67 J**	2.2 U	4.41 U	2.2 U	4.41 U	4.41 U	4.41 U	4.41 U	4.41 U	2.2 U	**0.967 J**	22 U	220 U	**1.02 J**	2.2 U	**17.8**	**0.834 J**	**0.581 J**	2.2 U	
North Area	NA-E13-B-NW	0-2	20-Jan-2010	4.43 U	**0.776 J**	**1.58 J**	2.21 U	4.43 U	2.21 U	4.43 U	4.43 U	4.43 U	4.43 U	4.43 U	2.21 U	2.21 U	22.1 U	221 U	**3.26**	2.21 U	**8.89**	2.21 U	2.21 U	2.21 U	
North Area	NA-E13-C-F	2	20-Jan-2010	113 U	113 U	113 U	56.4 U	113 U	56.4 U	113 U	113 U	113 U	113 U	113 U	56.4 U	56.4 U	564 U	5640 U	**16 J**	56.4 U	**422**	56.4 U	56.4 U	56.4 U	
North Area	NA-E13-C-SW	0-2	20-Jan-2010	86.5 U	**17.5 J**	**27.4 J**	43.2 U	86.5 U	43.2 U	86.5 U	86.5 U	86.5 U	86.5 U	86.5 U	43.2 U	43.2 U	432 U	4320 U	**25.2 J**	43.2 U	**318**	**18.6 J**	**13.1 J**	43.2 U	
North Area	NA-E13-C-WW	0-2	20-Jan-2010	**4.46 J**	**8.45 J**	**23.2**	11.6 U	23.2 U	11.6 U	23.2 U	23.2 U	23.2 U	23.2 U	23.2 U	11.6 U	11.6 U	116 U	1160 U	**15**	11.6 U	**60.2**	**6.22 J**	**5.53 J**	11.6 U	
North Area	NA-E13-D-EW	0-2	20-Jan-2010	23.4 U	**6.06 J**	**17.8 J**	11.7 U	23.4 U	11.7 U	23.4 U	23.4 U	23.4 U	23.4 U	23.4 U	11.7 U	11.7 U	117 U	1170 U	**16.6**	11.7 U	**53.5**	**5.47 J**	**4.87 J**	11.7 U	
North Area	NA-E13-D-F	2	20-Jan-2010	**19.4 J**	**13.8 J**	**61.2**	11.4 U	22.9 U	11.4 U	22.9 U	22.9 U	22.9 U	22.9 U	22.9 U	11.4 U	11.4 U	114 U	1140 U	**6.91 J**	11.4 U	**97.9**	11.4 U	11.4 U	11.4 U	
North Area	NA-E13-D-SW	0-2	20-Jan-2010	**31 J**	**35.5 J**	**13.8 J**	22.8 U	45.5 U	22.8 U	45.5 U	45.5 U	45.5 U	45.5 U	45.5 U	22.8 U	22.8 U	228 U	2280 U	22.8 U	22.8 U	**43.7 J**	22.8 U	22.8 U	22.8 U	
Week of March 1st																									
North Area	NA-E10-DUP1		05-Mar-2010	46.9 U	46.9 U	46.9 U	23.4 U	46.9 U	23.4 U	46.9 U	46.9 U	46.9 U	46.9 U	46.9 U	23.4 U	23.4 U	234 U	2340 U	**6.55 J**	23.4 U	46.9 U	23.4 U	23.4 U	23.4 U	
North Area	NA-E10-G-F(2.5-3.0)	2.5-3	04-Mar-2010	94.6 U	94.6 U	94.6 U	47.3 U	94.6 U	47.3 U	94.6 U	94.6 U	94.6 U	94.6 U	94.6 U	47.3 U	47.3 U	473 U	**5270**	**9.64 J**	47.3 U	**79 J**	**13.4 J**	**18 J**	47.3 U	
North Area	NA-E10-G-F(3.0-3.5)	3-3.5	04-Mar-2010	45.2 U	45.2 U	45.2 U	22.6 U	45.2 U	22.6 U	45.2 U	45.2 U	45.2 U	45.2 U	45.2 U	22.6 U	22.6 U	226 U	2260 U	22.6 U	22.6 U	45.2 U	22.6 U	22.6 U	22.6 U	
North Area	NA-E10-H-F(2.5-3.0)	2.5-3	04-Mar-2010	23800 U	23800 U	23800 U	11900 U	23800 U	11900 U	23800 U	23800 U	23800 U	23800 U	23800 U	11900 U	11900 U	119000 U	1190000 U	**126000**	11900 U	**36100**	**4570 J**	**6520 J**	11900 U	
North Area	NA-E10-H-F(3.0-3.5)	3-3.5	04-Mar-2010	**4120 J**	23400 U	23400 U	11700 U	23400 U	11700 U	23400 U	23400 U	23400 U	23400 U	23400 U	11700 U	11700 U	117000 U	1170000 U	**119000**	11700 U	**27100**	**8840 J**	**10800 J**	11700 U	
North Area	NA-E10-L-F(2.5-3.0)	2.5-3	04-Mar-2010	1910 U	1910 U	1910 U	954 U	1910 U	954 U	1910 U	1910 U	1910 U	1910 U	1910 U	954 U	954 U	9540 U	95400 U	**8970**	954 U	**3110**	**1320**	**3650**	954 U	
North Area	NA-E10-L-F(3.0-3.5)	3-3.5	04-Mar-2010	227 U	227 U	**34.4 J**	113 U	227 U	113 U	227 U	227 U	227 U	227 U	227 U	113 U	113 U	1130 U	11300 U	**1010**	113 U	**287**	**95.3 J**	**130**	113 U	
North Area	NA-E10-X-F(2.5-3.0)	2.5-3	05-Mar-2010	9090 U	9090 U	9090 U	4540 U	9090 U	4540 U	9090 U	9090 U	9090 U	9090 U	9090 U	4540 U	4540 U	45400 U	454000 U	**58400**	4540 U	**20600**	4540 U	**2100 J**	4540 U	
North Area	NA-E10-X-F(3.0-3.5)	3-3.5	05-Mar-2010	45.8 U	45.8 U	45.8 U	22.9 U	45.8 U	22.9 U	45.8 U	45.8 U	45.8 U	45.8 U	45.8 U	22.9 U	22.9 U	229 U	2290 U	**6.93 J**	22.9 U	45.8 U	22.9 U	22.9 U	22.9 U	
North Area	NA-E10-Y-F(2.5-3.0)	2.5-3	05-Mar-2010	44.5 U	44.5 U	44.5 U	22.3 U	44.5 U	22.3 U	44.5 U	44.5 U	44.5 U	44.5 U	44.5 U	22.3 U	22.3 U	223 U	2230 U	22.3 U	22.3 U	44.5 U	22.3 U	22.3 U	22.3 U	
North Area	NA-E10-Y-F(3.0-3.5)	3-3.5	05-Mar-2010	45.5 U	45.5 U	45.5 U	22.7 U	45.5 U	22.7 U	45.5 U	45.5 U	45.5 U	45.5 U	45.5 U	22.7 U	22.7 U	227 U	2270 U	22.7 U	22.7 U	45.5 U	22.7 U	22.7 U	22.7 U	
North Area	NA-E10-Y-F(3.0-3.5)MS	3-3.5	05-Mar-2010	**16.6 J**	**19.8 J**	**17.3 J**	**19.6 J**	**19.7 J**	**18.9 J**	**18.2 J**	**19.7 J**	**20.8 J**	**17.5 J**	**17.7 J**	**21.8 J**	**21.5 J**	**21.4 J**	2240 U	**20.6 J**	**23.1**	**20.8 J**	**20.1 J**	**19.6 J**	**22.1 J**	
North Area	NA-E10-Y-F(3.0-3.5)MSD	3-3.5	05-Mar-2010	**16.7 J**	**18.5 J**	**17.5 J**	**19.7 J**	**19.4 J**	**18.4 J**	**19 J**	**20.1 J**	**21.3 J**	**17.1 J**	**18 J**	**22.2 J**	**20 J**	**20.9 J**	2250 U	**22.1 J**	**22.3 J**	**22.4 J**	**20 J**	**20.5 J**	**19.4 J**	
North Area	NA-E12-A-WW10(0-2)	0-2	05-Mar-2010	47.5 U	47.5 U	47.5 U	23.8 U	47.5 U	23.8 U	47.5 U	47.5 U	47.5 U	47.5 U	47.5 U	23.8 U	23.8 U	238 U	2380 U	23.8 U	23.8 U	47.5 U	23.8 U	23.8 U	23.8 U	
North Area	NA-E12-A-WW15(0-2)	0-2	05-Mar-2010	47.6 U	47.6 U	47.6 U	23.8 U	47.6 U	23.8 U	47.6 U	47.6 U	47.6 U	47.6 U	47.6 U	23.8 U	23.8 U	238 U	2380 U	23.8 U	23.8 U	47.6 U	23.8 U	23.8 U	23.8 U	
North Area	NA-E12-A-WW5(0-2)	0-2	05-Mar-2010	47.4 U	47.4 U	47.4 U	23.7 U	47.4 U	23.7 U	47.4 U	47.4 U	47.4 U	47.4 U	47.4 U	23.7 U	23.7 U	237 U	2370 U	**35**	23.7 U	**157**	**15.7 J**	**20.1 J**	23.7 U	
North Area	NA-E12-A-WW-D		05-Mar-2010	47.3 U	47.3 U	47.3 U	23.6 U	47.3 U	23.6 U	47.3 U	47.3 U	47.3 U	47.3 U	47.3 U	23.6 U	23.6 U	236 U	2360 U	23.6 U	23.6 U	47.3 U	23.6 U	23.6 U	23.6 U	
North Area	NA-E12-B-F(2.5-3.0)	2.5-3	04-Mar-2010	48.5 U	48.5 U	48.5 U	24.3 U	48.5 U	24.3 U	48.5 U	48.5 U	48.5 U	48.5 U	48.5 U	24.3 U	24.3 U	243 U	2430 U	24.3 U	24.3 U	48.5 U	24.3 U	24.3 U	24.3 U	
North Area	NA-E12-B-F(3.0-3.5)	3-3.5	04-Mar-2010	48.7 U	48.7 U	48.7 U	24.3 U	48.7 U	24.3 U	48.7 U	48.7 U	48.7 U	48.7 U	48.7 U	24.3 U	24.3 U	243 U	2430 U	24.3 U	24.3 U	48.7 U	24.3 U	24.3 U	24.3 U	
North Area	NA-E10-I-F(2.5-3.0)	2.5-3	08-Mar-2010	47.6 U	47.6 U	**13.1 J**	23.8 U	47.6 U	23.8 U	47.6 U	47.6 U	47.6 U	47.6 U	47.6 U	23.8 U	23.8 U	238 U	2380 U	**48.9**	23.8 U	**85.9**	**7.76 J**	**7.28 J**	23.8 U	
North Area	NA-E10-I-F(3.0-3.5)	3-3.5	08-Mar-2010	50.4 U	50.4 U	50.4 U	25.2 U	50.4 U	25.2 U	50.4 U	50.4 U	50.4 U	50.4 U	50.4 U	25.2 U	25.2 U	252 U	2520 U	**66**	25.2 U	50.4 U	25.2 U	25.2 U	25.2 U	
North Area	NA-E10-J-F(2.5-3.0)	2.5-3	08-Mar-2010	45.7 U	45.7 U	45.7 U	22.9 U	45.7 U	22.9 U	45.7 U	45.7 U	45.7 U	45.7 U	45.7 U	22.9 U	22.9 U	229 U	2290 U	22.9 U	22.9 U	45.7 U	22.9 U	22.9 U	22.9 U	
North Area	NA-E10-J-F(3.0-3.5)	3-3.5	08-Mar-2010	45.7 U	45.7 U	45.7 U	22.8 U	45.7 U	22.8 U	45.7 U	45.7 U	45.7 U	45.7 U	45.7 U	22.8 U	22.8 U	228 U	2280 U	22.8 U	22.8 U	45.7 U	22.8 U	22.8 U	22.8 U	
North Area	NA-E10-K-F(2.5-3.0)	2.5-3	08-Mar-2010	44.7 U	44.7 U	44.7 U	22.3 U	44.7 U	22.3 U	44.7 U	44.7 U	44.7 U	44.7 U	44.7 U	22.3 U	22.3 U	223 U	2230 U	22.3 U	22.3 U	44.7 U	22.3 U	22.3 U	22.3 U	
North Area	NA-E10-K-F(3.0-3.5)	3-3.5	08-Mar-2010	44.6 U	44.6 U	44.6 U	22.3 U	44.6 U	22.3 U	44.6 U	44.6 U	44.6 U	44.6 U	44.6 U	22.3 U	22.3 U	223 U	2230 U	22.3 U	22.3 U	44.6 U	22.3 U	22.3 U	22.3 U	
North Area	NA-E10-O-F(3.5-4.0)	3.5-4	08-Mar-2010	47.5 U	47.5 U	47.5 U	23.7 U	47.5 U	23.7 U	47.5 U	47.5 U	47.5 U	47.5 U	47.5 U	23.7 U	23.7 U	237 U	2370 U	**54.1**	23.7 U	**27.7 J**	23.7 U	**9.14 J**	23.7 U	
North Area	NA-E10-O-F(4.0-4.5)	4-4.5	08-Mar-2010	48.5 U	48.5 U	48.5 U	24.3 U	48.5 U	24.3 U	48.5 U	48.5 U	48.5 U	48.5 U	48.5 U	24.3 U	24.3 U	243 U	2430 U	**42**	24.3 U	**14.8 J**	24.3 U	**8.26 J**	24.3 U	
North Area	NA-E11-C-EW10(0-2)	0-2	09-Mar-2010	43.5 U	43.5 U	43.5 U	21.7 U	43.5 U	21.7 U	43.5 U	43.5 U	43.5 U	43.5 U	43.5 U	21.7 U	21.7 U	217 U	2170 U	21.7 U	21.7 U	**8.45 J**	21.7 U	21.7 U	21.7 U	
North Area	NA-E11-C-EW15(0-2)	0-2	09-Mar-2010	44.2 U	44.2 U	44.2 U	22.1 U	44.2 U	22.1 U	44.2 U	44.2 U	44.2 U	44.2 U	44.2 U	22.1 U	22.1 U	221 U	2210 U	22.1 U	22.1 U	44.2 U	22.1 U	22.1 U	22.1 U	
North Area	NA-E11-C-EW5(0-2)	0-2	09-Mar-2010	44.3 U	44.3 U	44.3 U	22.2 U	44.3 U	22.2 U	44.3 U	44.3 U	44.3 U	44.3 U	44.3 U	22.2 U	22.2 U	222 U	2220 U	22.2 U	22.2 U	44.3 U	22.2 U	22.2 U	22.2 U	
North Area	NA-E11-C-EW-DUP10		09-Mar-2010	52.4 U	52.4 U	52.4 U	26.2 U	52.4 U	26.2 U	52.4 U	52.4 U	52.4 U	52.4 U	52.4 U	26.2 U	26.2 U	262 U	2620 U	26.2 U	26.2 U	52.4 U	26.2 U	26.2 U	26.2 U	
North Area	NA-E11-C-EWF(2.5-3.0)	2.5-3	09-Mar-2010	43.7 U	43.7 U	**9.62 J**	21.9 U	43.7 U	21.9 U	43.7 U	43.7 U	43.7 U	43.7 U	43.7 U	21.9 U	21.9 U	219 U	2190 U	**5.69 J**	21.9 U	**31.7 J**	21.9 U	21.9 U	21.9 U	
North Area	NA-E11-C-EWF(3.0-3.5)	3-3.5	09-Mar-2010	44.3 U	44.3 U	44.3 U	22.1 U	44.3 U	22.1 U	44.3 U	44.3 U	44.3 U	44.3 U	44.3 U	22.1 U	22.1 U	221 U	2210 U	22.1 U	22.1 U	**67**	22.1 U	22.1 U	22.1 U	
North Area	NA-E12-A-WW-DUP8		09-Mar-2010	51 U	51 U	51 U	25.5 U	51 U	25.5 U	51 U	51 U	51 U	51 U	51 U	25.5 U	25.5 U	255 U	**153 J**	25.5 U	25.5 U	**20 J**	25.5 U	25.5 U	25.5 U	
North Area	NA-E12-A-WWF(2.5-3.0)	2.5-3	09-Mar-2010	47.4 U	47.4 U	47.4 U	23.7 U	47.4 U	23.7 U	47.4 U	47.4 U	47.4 U	47.4 U	47.4 U	23.7 U	23.7 U	237 U	**391 J**	23.7 U	23.7 U	**18.9 J**	23.7 U	23.7 U	23.7 U	
North Area	NA-E12-A-WWF(3.0-3.5)	3-3.5	09-Mar-2010	45.5 U	45.5 U	45.5 U	22.8 U	45.5 U	22.8 U	45.5 U	45.5 U	45.5 U	45.5 U	45.5 U	22.8 U	22.8 U	228 U	2280 U	22.8 U	22.8 U	45.5 U	22.8 U	22.8 U	22.8 U	
North Area	NA-E12-A-WWF-DUP9		09-Mar-2010	46.1 U	46.1 U	46.1 U	23 U	46.1 U	23 U	46.1 U	46.1 U	46.1 U	46.1 U	46.1 U	23 U	23 U	230 U	2300 U	23 U	23 U	**9.04 J**	23 U	23 U	23 U	

TABLE 4-1 North Parcel Soil Sampling Results

Soil Pesticide Data Summary - Northern Sample Grid - Adjacent to Spring Creek Road (Excavation)

Georgia Ports Authority, Bainbridge Terminal

Sample Location	Sample Identification	Sample Depth (ft)	Sample Date	4,4'DDD	4,4'DDE	4,4'-DDT	Aldrin	Dieldrin	Endsulfan I	Endosulfan II	Endosulfan Sulfa	Endrin	Endrin Aldehyde	Endrin Ketone	Heptachlor	Heptachlor Epox	Methoxychlor	Toxaphene	alpha-BHC	alpha-Clordane	beta-BHC	delta-BHC	gamma-BHC (Lin	gamma-Chlordan	Other Field Observation(s)
Proposed Site-Specific RRS Values (ug/kg):				***11,000***	***7,700***	***11,000***	***660***												***660***		***3,100***	***100***	***12,000***		
North Area	NA-E12-B-EW10(0-2)	0-2	09-Mar-2010	**49.6 J**	**34 J**	242 U	121 U	242 U	121 U	242 U	242 U	242 U	242 U	242 U	121 U	121 U	1210 U	12100 U	**40.4 J**	121 U	**1530**	121 U	121 U	121 U	
North Area	NA-E12-B-EW15(0-2)	0-2	09-Mar-2010	**17.8 J**	**11.1 J**	93.5 U	46.7 U	93.5 U	46.7 U	93.5 U	93.5 U	93.5 U	93.5 U	93.5 U	46.7 U	46.7 U	467 U	4670 U	**24.5 J**	46.7 U	**515**	**27.2 J**	**9.99 J**	46.7 U	
North Area	NA-E12-B-EW5(0-2)	0-2	09-Mar-2010	46.5 U	46.5 U	46.5 U	23.2 U	46.5 U	23.2 U	46.5 U	46.5 U	46.5 U	46.5 U	46.5 U	23.2 U	23.2 U	232 U	2320 U	23.2 U	23.2 U	46.5 U	23.2 U	23.2 U	23.2 U	
North Area	NA-E12-B-EW-DUP3		09-Mar-2010	46.3 U	46.3 U	46.3 U	23.1 U	46.3 U	23.1 U	46.3 U	46.3 U	46.3 U	46.3 U	46.3 U	23.1 U	23.1 U	231 U	**255 J**	23.1 U	23.1 U	**21.6 J**	23.1 U	23.1 U	23.1 U	
North Area	NA-E12-B-EW-DUP4		09-Mar-2010	**65.8 J**	**32.7 J**	**11.7 J**	45.7 U	91.4 U	45.7 U	91.4 U	91.4 U	91.4 U	91.4 U	91.4 U	45.7 U	45.7 U	457 U	4570 U	**29.8 J**	45.7 U	**612**	**18.7 J**	**11.8 J**	45.7 U	
North Area	NA-E12-B-EW-DUP5		09-Mar-2010	**10.5 J**	90.4 U	90.4 U	45.2 U	90.4 U	45.2 U	90.4 U	90.4 U	90.4 U	90.4 U	90.4 U	45.2 U	45.2 U	452 U	4520 U	**19.4 J**	45.2 U	**507**	**20.8 J**	**8.97 J**	45.2 U	
North Area	NA-E12-B-EWF(2.5-3.0)	2.5-3	09-Mar-2010	52.9 U	52.9 U	**13.3 J**	26.4 U	52.9 U	26.4 U	52.9 U	52.9 U	52.9 U	52.9 U	52.9 U	26.4 U	26.4 U	264 U	2640 U	26.4 U	26.4 U	52.9 U	26.4 U	26.4 U	26.4 U	
North Area	NA-E12-B-EWF(3.0-3.5)	3-3.5	09-Mar-2010	**1240**	**389**	**107**	48.2 U	96.5 U	48.2 U	96.5 U	96.5 U	96.5 U	96.5 U	96.5 U	48.2 U	48.2 U	482 U	4820 U	**70.4**	48.2 U	**650**	**131**	**27.3 J**	48.2 U	
North Area	NA-E12-B-EWF-DUP6		09-Mar-2010	46.8 U	46.8 U	46.8 U	23.4 U	46.8 U	23.4 U	46.8 U	46.8 U	46.8 U	46.8 U	46.8 U	23.4 U	23.4 U	234 U	2340 U	23.4 U	23.4 U	46.8 U	23.4 U	23.4 U	23.4 U	
North Area	NA-E12-B-EWF-DUP7		09-Mar-2010	**945**	**341**	**124 J**	132 U	265 U	132 U	265 U	265 U	265 U	265 U	265 U	132 U	132 U	1320 U	13200 U	**59.3 J**	132 U	**1150**	**108 J**	132 U	132 U	
Week of April 19																									
North Area	NA-E10-H-F(3.5-4.0)	3.5-4.0	19-Apr-2010	92.1 U	92.1 U	92.1 U	46 U	92.1 U	46 U	92.1 U	92.1 U	92.1 U	92.1 U	92.1 U	46 U	46 U	460 U	4600 U	**9.78 J**	46 U	92.1 U	46 U	46 U	46 U	
North Area	NA-E10-H-F(4.0-4.5)	4.0-4.5	19-Apr-2010	90.9 U	90.9 U	90.9 U	45.5 U	90.9 U	45.5 U	90.9 U	90.9 U	90.9 U	90.9 U	90.9 U	45.5 U	45.5 U	455 U	4550 U	**8.3 J**	45.5 U	90.9 U	45.5 U	45.5 U	45.5 U	
North Area	NA-E10-L-F(3.5-4.0)	3.5-4.0	19-Apr-2010	4.43 U	4.43 U	4.43 U	2.22 U	4.43 U	2.22 U	4.43 U	4.43 U	4.43 U	4.43 U	4.43 U	2.22 U	2.22 U	22.2 U	222 U	**2.34**	2.22 U	**1.82 J**	2.22 U	2.22 U	2.22 U	
North Area	NA-E10-L-F(4.0-4.5)	4.0-4.5	19-Apr-2010	89.3 U	89.3 U	89.3 U	44.6 U	89.3 U	44.6 U	89.3 U	89.3 U	89.3 U	89.3 U	89.3 U	44.6 U	44.6 U	446 U	4460 U	**14.5 J**	44.6 U	89.3 U	44.6 U	44.6 U	44.6 U	
North Area	NA-E12-B-EW10(3.5-4.0)	3.5-4.0	20-Apr-2010	92 U	92 U	92 U	46 U	92 U	46 U	92 U	92 U	92 U	92 U	92 U	46 U	46 U	460 U	4600 U	46 U	46 U	**15 J**	46 U	46 U	46 U	
North Area	NA-E12-B-EW10(4.0-4.5)	4.0-4.5	20-Apr-2010	92 U	92 U	92 U	46 U	92 U	46 U	92 U	92 U	92 U	92 U	92 U	46 U	46 U	460 U	4600 U	46 U	46 U	92 U	46 U	46 U	46 U	
North Area	NA-E12-B-EW15(3.5-4.0)	3.5-4.0	20-Apr-2010	93.3 U	93.3 U	93.3 U	46.7 U	93.3 U	46.7 U	93.3 U	93.3 U	93.3 U	93.3 U	93.3 U	46.7 U	46.7 U	467 U	4670 U	46.7 U	46.7 U	**28 J**	46.7 U	46.7 U	46.7 U	
North Area	NA-E12-B-EW15(4.0-4.5)	4.0-4.5	20-Apr-2010	96.3 U	96.3 U	96.3 U	48.2 U	96.3 U	48.2 U	96.3 U	96.3 U	96.3 U	96.3 U	96.3 U	48.2 U	48.2 U	482 U	4820 U	48.2 U	48.2 U	**16.9 J**	48.2 U	48.2 U	48.2 U	
North Area	NA-E12-B-EW20(2.5-3.0)	2.5-3.0	20-Apr-2010	93.2 U	93.2 U	93.2 U	46.6 U	93.2 U	46.6 U	93.2 U	93.2 U	93.2 U	93.2 U	93.2 U	46.6 U	46.6 U	466 U	4660 U	46.6 U	46.6 U	**23.3 J**	46.6 U	46.6 U	46.6 U	
North Area	NA-E12-B-EW20(3.0-3.5)	3.0-3.5	20-Apr-2010	94.3 U	94.3 U	94.3 U	47.1 U	94.3 U	47.1 U	94.3 U	94.3 U	94.3 U	94.3 U	94.3 U	47.1 U	47.1 U	471 U	4710 U	47.1 U	47.1 U	94.3 U	47.1 U	47.1 U	47.1 U	
North Area	NA-E12-B-EW25(2.5-3.0)	2.5-3.0	20-Apr-2010	94.6 U	94.6 U	94.6 U	47.3 U	94.6 U	47.3 U	94.6 U	94.6 U	94.6 U	10.2 J	94.6 U	47.3 U	47.3 U	473 U	4730 U	47.3 U	47.3 U	**20.2 J**	47.3 U	47.3 U	47.3 U	
North Area	NA-E12-B-EW25(3.0-3.5)	3.0-3.5	20-Apr-2010	96.2 U	96.2 U	96.2 U	48.1 U	96.2 U	48.1 U	96.2 U	96.2 U	96.2 U	96.2 U	96.2 U	48.1 U	48.1 U	481 U	4810 U	48.1 U	48.1 U	**15.7 J**	48.1 U	48.1 U	48.1 U	
North Area	NA-E12-B-EW5(3.5-4.0)	3.5-4.0	20-Apr-2010	2260 U	2260 U	2260 U	1130 U	2260 U	1130 U	2260 U	2260 U	2260 U	2260 U	2260 U	1130 U	1130 U	11300 U	113000 U	**42,000**	1130 U	**12,500**	**3,180**	**1810**	1130 U	
North Area	NA-E12-B-EW5(4.0-4.5)	4.0-4.5	20-Apr-2010	91.1 U	91.1 U	91.1 U	45.5 U	91.1 U	45.5 U	91.1 U	91.1 U	91.1 U	91.1 U	91.1 U	45.5 U	45.5 U	455 U	4550 U	**12.6 J**	45.5 U	**18.3 J**	45.5 U	45.5 U	45.5 U	

Notes:

Unless otherwise stated, all concentrations are reported in micrograms per kilogram (ug/Kg).

Bold values indicate detection either above the Method Detection Limit (MDL) or less than or more than the Reporting Limit (RL). If concentrations are reported at less than the RL, the value is accompanied by a "J" qualifier.

Bolded, italicized values indicate detection above the proposed Site-Specific Risk Reduction Standards (RRS).

J = Concentration detected at or above the MDL.

Toxaphene does not have a site-specific RRS value but the highlighted value is above the GA EPD notification concentration.

TABLE 4-2 AOC-1 Soil Sampling Results

Soil Pesticide Data Summary - Southern Area (Rock Salt Warehouse)

Georgia Ports Authority, Bainbridge Terminal

			Proposed Site-Specific RRS Values (ug/kg):	*11,000*	*7,700*	*11,000*	*660*												*660*		*3,100*	*100*	*12,000*	
Sample Location	**Sample Identification**	**Sample Depth (ft)**	**Sample Date**	**4,4'DDD**	**4,4'DDE**	**4,4'-DDT**	**Aldrin**	**Dieldrin**	**Endsulfan I**	**Endosulfan II**	**Endosulfan Sulfate**	**Endrin**	**Endrin Aldehyde**	**Endrin Ketone**	**Heptchlor**	**Heptachlor Epoxide**	**Methoxychlor**	**Toxaphene**	**alpha-BHC**	**alpha-Clordane**	**beta-BHC**	**delta-BHC**	**gamma-BHC (Lindane)**	**gamma-Chlordane**
South Area	SA-E14-EW	0-2	19-Jan-2010	46.6 U	46.6 U	**7.18 J**	23.3 U	46.6 U	23.3 U	46.6 U	46.6 U	46.6 U	46.6 U	46.6 U	23.3 U	23.3 U	233 U	2330 U	23.3 U	23.3 U	**222**	23.3 U	23.3 U	23.3 U
South Area	SA-E14-F	2	19-Jan-2010	5.52 U	5.52 U	5.52 U	2.76 U	5.52 U	2.76 U	5.52 U	5.52 U	5.52 U	5.52 U	5.52 U	2.76 U	2.76 U	27.6 U	276 U	2.76 U	2.76 U	5.52 U	2.76 U	2.76 U	2.76 U
South Area	SA-E14-NW	0-2	19-Jan-2010	462 U	462 U	462 U	231 U	462 U	231 U	462 U	462 U	462 U	462 U	462 U	231 U	231 U	2310 U	23100 U	231 U	231 U	**2340**	231 U	231 U	231 U
South Area	SA-E14-SW	0-2	19-Jan-2010	9.9 U	**3.86 J**	**3.29 J**	4.95 U	9.9 U	4.95 U	9.9 U	9.9 U	9.9 U	9.9 U	9.9 U	4.95 U	4.95 U	49.5 U	495 U	**1.92 J**	4.95 U	**82.2**	4.95 U	4.95 U	4.95 U
South Area	SA-E14-WW	0-2	19-Jan-2010	9.32 U	9.32 U	9.32 U	4.66 U	9.32 U	4.66 U	9.32 U	9.32 U	9.32 U	9.32 U	9.32 U	4.66 U	4.66 U	46.6 U	466 U	4.66 U	4.66 U	**7.08 J**	4.66 U	4.66 U	4.66 U
South Area	SA-E15-A-EW	0-2	21-Jan-2010	4810 U	4810 U	4810 U	2400 U	4810 U	2400 U	4810 U	4810 U	4810 U	4810 U	4810 U	2400 U	2400 U	24000 U	240000 U	**31800**	2400 U	**13400**	**706 J**	**2990**	2400 U
South Area	SA-E15-A-EW10(0-2)	0-2	10-Mar-2010	46.6 U	46.6 U	46.6 U	23.3 U	46.6 U	23.3 U	46.6 U	46.6 U	46.6 U	46.6 U	46.6 U	23.3 U	23.3 U	233 U	2330 U	23.3 U	23.3 U	**24.8 J**	23.3 U	23.3 U	23.3 U
South Area	SA-E15-A-EW15(0-2)	0-2	10-Mar-2010	46.4 U	46.4 U	46.4 U	23.2 U	46.4 U	23.2 U	46.4 U	46.4 U	46.4 U	46.4 U	46.4 U	23.2 U	23.2 U	232 U	2320 U	**281**	23.2 U	**118**	23.2 U	**7.55 J**	23.2 U
South Area	SA-E15-A-EW5(0-2)	0-2	10-Mar-2010	46 U	46 U	46 U	23 U	46 U	23 U	46 U	46 U	46 U	46 U	46 U	23 U	23 U	230 U	2300 U	23 U	23 U	**53.8**	23 U	23 U	23 U
South Area	SA-E15-A-EWF(2.5-3.0)	2.5-3	10-Mar-2010	46.1 U	46.1 U	46.1 U	23 U	46.1 U	23 U	46.1 U	46.1 U	46.1 U	46.1 U	46.1 U	23 U	23 U	230 U	2300 U	23 U	23 U	**12.8 J**	23 U	23 U	23 U
South Area	SA-E15-A-EWF(3.0-3.5)	3-3.5	10-Mar-2010	45.3 U	45.3 U	45.3 U	22.6 U	45.3 U	22.6 U	45.3 U	45.3 U	45.3 U	45.3 U	45.3 U	22.6 U	22.6 U	226 U	2260 U	**13.7 J**	22.6 U	**14.9 J**	22.6 U	22.6 U	22.6 U
South Area	SA-E15-A-F	2	21-Jan-2010	47.1 U	47.1 U	47.1 U	23.6 U	47.1 U	23.6 U	47.1 U	47.1 U	47.1 U	47.1 U	47.1 U	23.6 U	23.6 U	236 U	2360 U	**130**	23.6 U	**64**	**6.76 J**	**7.6 J**	23.6 U
South Area	SA-E15-A-NW	0-2	21-Jan-2010	229 U	229 U	229 U	115 U	229 U	115 U	229 U	229 U	229 U	229 U	229 U	115 U	115 U	1150 U	11500 U	**1720**	115 U	**1160**	115 U	**66 J**	115 U
South Area	SA-E15-A-NW10(0-2)	0-2	09-Mar-2010	46.5 U	46.5 U	46.5 U	23.3 U	46.5 U	23.3 U	46.5 U	46.5 U	46.5 U	46.5 U	46.5 U	23.3 U	23.3 U	233 U	2330 U	23.3 U	23.3 U	**57.5**	23.3 U	23.3 U	23.3 U
South Area	SA-E15-A-NW15(0-2)	0-2	09-Mar-2010	473 U	473 U	473 U	237 U	473 U	237 U	473 U	473 U	473 U	473 U	473 U	237 U	237 U	2370 U	23700 U	**3200**	237 U	**1300**	237 U	**135 J**	237 U
South Area	SA-E15-A-NW5(0-2)	0-2	09-Mar-2010	46.3 U	46.3 U	46.3 U	23.1 U	46.3 U	23.1 U	46.3 U	46.3 U	46.3 U	46.3 U	46.3 U	23.1 U	23.1 U	231 U	2310 U	**129**	23.1 U	**79.7**	23.1 U	23.1 U	23.1 U
South Area	SA-E15-A-NWF(2.5-3.0)	2.5-3	09-Mar-2010	45.8 U	45.8 U	45.8 U	22.9 U	45.8 U	22.9 U	45.8 U	45.8 U	45.8 U	45.8 U	45.8 U	22.9 U	22.9 U	229 U	2290 U	22.9 U	22.9 U	**17.5 J**	22.9 U	22.9 U	22.9 U
South Area	SA-E15-A-NWF(3.0-3.5)	3-3.5	09-Mar-2010	44.4 U	44.4 U	44.4 U	22.2 U	44.4 U	22.2 U	44.4 U	44.4 U	44.4 U	44.4 U	44.4 U	22.2 U	22.2 U	222 U	2220 U	22.2 U	22.2 U	**24.6 J**	22.2 U	22.2 U	22.2 U
South Area	SA-E15-A-WW	0-2	21-Jan-2010	472 U	472 U	472 U	236 U	472 U	236 U	472 U	472 U	472 U	472 U	472 U	236 U	236 U	2360 U	23600 U	**1530**	236 U	**3540**	236 U	**73.2 J**	236 U
South Area	SA-E15-A-WW-D	0-2	21-Jan-2010	464 U	464 U	464 U	232 U	464 U	232 U	464 U	464 U	464 U	464 U	464 U	232 U	232 U	2320 U	23200 U	**977**	232 U	**3490**	232 U	232 U	232 U
South Area	SA-E15-BD-1(0-2)	0-2	10-Mar-2010	22600 U	22600 U	22600 U	11300 U	22600 U	11300 U	22600 U	22600 U	22600 U	22600 U	22600 U	11300 U	11300 U	113000 U	1130000 U	**115000**	11300 U	**29900**	11300 U	**3100 J**	11300 U
South Area	SA-E15-BD-2(0-2)	0-2	10-Mar-2010	94500 U	94500 U	94500 U	47300 U	94500 U	47300 U	94500 U	94500 U	94500 U	94500 U	94500 U	47300 U	47300 U	473000 U	4730000 U	**733000**	47300 U	**156000**	**28800 J**	**46800 J**	47300 U
South Area	SA-E15-BD-3(0-2)	0-2	10-Mar-2010	46000 U	46000 U	46000 U	23000 U	46000 U	23000 U	46000 U	46000 U	46000 U	46000 U	46000 U	23000 U	23000 U	230000 U	2300000 U	**356000**	23000 U	**81600**	23000 U	**11200 J**	23000 U
South Area	SA-E15-BD-F(2.5-3.0)	2.5-3	10-Mar-2010	232 U	232 U	232 U	116 U	232 U	116 U	232 U	232 U	232 U	232 U	232 U	116 U	116 U	1160 U	11600 U	**1100**	116 U	**295**	116 U	**37.8 J**	116 U
South Area	SA-E15-BD-F(3.0-3.5)	3-3.5	10-Mar-2010	47.5 U	47.5 U	47.5 U	23.8 U	47.5 U	23.8 U	47.5 U	47.5 U	47.5 U	47.5 U	47.5 U	23.8 U	23.8 U	238 U	2380 U	**155**	23.8 U	**81**	23.8 U	**11.5 J**	23.8 U
South Area	SA-E15-B-EW	0-2	21-Jan-2010	22700 U	22700 U	22700 U	11400 U	22700 U	11400 U	22700 U	22700 U	22700 U	22700 U	22700 U	11400 U	11400 U	114000 U	1140000 U	**805000**	11400 U	**173000**	**42600**	**42700**	11400 U
South Area	SA-E15-B-F	2	21-Jan-2010	48600 U	48600 U	48600 U	24300 U	48600 U	24300 U	48600 U	48600 U	48600 U	48600 U	48600 U	24300 U	24300 U	243000 U	2430000 U	**295000**	24300 U	**67500**	**13500 J**	**18700 J**	24300 U
South Area	SA-E15-B-F(2.5-3.0)	2.5-3	09-Mar-2010	235 U	235 U	235 U	117 U	235 U	117 U	235 U	235 U	235 U	235 U	235 U	117 U	117 U	1170 U	11700 U	**1190**	117 U	**988**	**238**	**133**	117 U
South Area	SA-E15-B-F(3.0-3.5)	3-3.5	09-Mar-2010	47.2 U	47.2 U	47.2 U	23.6 U	47.2 U	23.6 U	47.2 U	47.2 U	47.2 U	47.2 U	47.2 U	23.6 U	23.6 U	236 U	2360 U	**365**	23.6 U	**130**	**34.2**	**51.9**	23.6 U
South Area	SA-E15-B-WW	0-2	21-Jan-2010	934 U	934 U	934 U	467 U	934 U	467 U	934 U	934 U	934 U	934 U	934 U	467 U	467 U	4670 U	46700 U	**741**	467 U	**7520**	**129 J**	467 U	467 U
South Area	SA-E15-C-F	2	21-Jan-2010	504 U	504 U	504 U	252 U	504 U	252 U	504 U	504 U	504 U	504 U	504 U	252 U	252 U	2520 U	25200 U	**1860**	252 U	**1370**	252 U	**67.2 J**	252 U
South Area	SA-E15-C-F(2.5-3.0)	2.5-3	09-Mar-2010	50.1 U	50.1 U	50.1 U	25.1 U	50.1 U	25.1 U	50.1 U	50.1 U	50.1 U	50.1 U	50.1 U	25.1 U	25.1 U	251 U	2510 U	**44.1**	25.1 U	**117**	**12.6 J**	25.1 U	25.1 U
South Area	SA-E15-C-F(3.0-3.5)	3-3.5	09-Mar-2010	47.6 U	47.6 U	47.6 U	23.8 U	47.6 U	23.8 U	47.6 U	47.6 U	47.6 U	47.6 U	47.6 U	23.8 U	23.8 U	238 U	2380 U	**28.8**	23.8 U	**204**	**9.95 J**	23.8 U	23.8 U
South Area	SA-E15-C-SW	0-2	22-Jan-2010	47500 U	47500 U	47500 U	23700 U	47500 U	23700 U	47500 U	47500 U	47500 U	47500 U	47500 U	23700 U	23700 U	237000 U	2370000 U	**2890000**	23700 U	**326000**	**68700**	**133000**	23700 U
South Area	SA-E15-C-WW	0-2	22-Jan-2010	20000 U	20000 U	20000 U	9990 U	20000 U	9990 U	20000 U	20000 U	20000 U	20000 U	20000 U	9990 U	9990 U	99900 U	999000 U	**31700**	9990 U	**101000**	9990 U	**5110 J**	9990 U
South Area	SA-E15-D-EW	0-2	22-Jan-2010	18.4 U	18.4 U	18.4 U	9.18 U	18.4 U	9.18 U	18.4 U	18.4 U	18.4 U	18.4 U	18.4 U	9.18 U	9.18 U	91.8 U	918 U	**18.3**	9.18 U	**77**	9.18 U	9.18 U	9.18 U
South Area	SA-E15-D-F	2	22-Jan-2010	46.6 U	46.6 U	46.6 U	23.3 U	46.6 U	23.3 U	46.6 U	46.6 U	46.6 U	46.6 U	46.6 U	23.3 U	23.3 U	233 U	2330 U	**75.8**	23.3 U	**231**	23.3 U	23.3 U	23.3 U
South Area	SA-E15-D-NW	0-2	22-Jan-2010	467 U	467 U	467 U	233 U	467 U	233 U	467 U	467 U	467 U	467 U	467 U	233 U	233 U	2330 U	23300 U	**2950**	233 U	**1730**	233 U	**145 J**	233 U
South Area	SA-E15-D-SW	0-2	22-Jan-2010	116 U	116 U	116 U	58.1 U	116 U	58.1 U	116 U	116 U	116 U	116 U	116 U	58.1 U	58.1 U	581 U	5810 U	**14.8 J**	58.1 U	**782**	58.1 U	58.1 U	58.1 U
South Area	SA-E16-A-F	2	22-Jan-2010	4.78 U	4.78 U	4.78 U	2.39 U	4.78 U	2.39 U	4.78 U	4.78 U	4.78 U	4.78 U	4.78 U	2.39 U	2.39 U	23.9 U	239 U	**8.42**	2.39 U	**13**	**7.52**	**4.06**	2.39 U
South Area	SA-E16-A-NW	0-2	22-Jan-2010	5.36 U	5.36 U	5.36 U	2.68 U	5.36 U	2.68 U	5.36 U	5.36 U	5.36 U	5.36 U	5.36 U	2.68 U	2.68 U	26.8 U	268 U	**8.94**	2.68 U	**25.4**	**6.18**	**3.31**	2.68 U
South Area	SA-E16-A-WW	0-2	22-Jan-2010	25.8 U	25.8 U	25.8 U	12.9 U	25.8 U	12.9 U	25.8 U	25.8 U	25.8 U	25.8 U	25.8 U	12.9 U	12.9 U	129 U	1290 U	**50.1**	12.9 U	**96.9**	**56.3**	**17.3**	12.9 U
South Area	SA-E16-A-WW-D	0-2	22-Jan-2010	10.3 U	10.3 U	10.3 U	5.16 U	10.3 U	5.16 U	10.3 U	10.3 U	10.3 U	10.3 U	10.3 U	5.16 U	5.16 U	51.6 U	516 U	**31**	5.16 U	**66.7**	**38.6**	**11.5**	5.16 U
South Area	SA-E16-B-F	2	22-Jan-2010	4.58 U	4.58 U	4.58 U	2.29 U	4.58 U	2.29 U	4.58 U	4.58 U	4.58 U	4.58 U	4.58 U	2.29 U	2.29 U	22.9 U	229 U	**5.36**	2.29 U	**32.5**	2.29 U	**0.648 J**	2.29 U
South Area	SA-E16-B-NW	0-2	22-Jan-2010	10700 U	10700 U	10700 U	5370 U	10700 U	5370 U	10700 U	10700 U	10700 U	10700 U	10700 U	5370 U	5370 U	53700 U	537000 U	**3890 J**	5370 U	**53000**	5370 U	5370 U	5370 U
South Area	SA-E16-C (2.5-3.0)-F	2.5-3	04-Mar-2010	45.6 U	45.6 U	**39.5 J**	22.8 U	45.6 U	22.8 U	45.6 U	45.6 U	45.6 U	45.6 U	45.6 U	22.8 U	22.8 U	228 U	2280 U	**125**	22.8 U	**1600**	**90.1**	**171**	22.8 U
South Area	SA-E16-C (3.0-3.5)-F	3-3.5	04-Mar-2010	92.4 U	92.4 U	92.4 U	46.2 U	92.4 U	46.2 U	92.4 U	92.4 U	92.4 U	92.4 U	92.4 U	46.2 U	46.2 U	462 U	4620 U	**27.6 J**	46.2 U	**352**	**19.8 J**	**43.6 J**	46.2 U
South Area	SA-E16-C-F	2	22-Jan-2010	1770 U	1770 U	1770 U	887 U	1770 U	887 U	1770 U	1770 U	1770 U	1770 U	1770 U	887 U	887 U	8870 U	88700 U	887 U	887 U	**7820**	887 U	887 U	887 U
South Area	SA-E16-C-NW	0-2	22-Jan-2010	9040 U	9040 U	9040 U	4520 U	9040 U	4520 U	9040 U	9040 U	9040 U	9040 U	9040 U	4520 U	4520 U	45200 U	452000 U	**33000**	4520 U	**17900**	4520 U	**1030 J**	4520 U
South Area	SA-E16-D-F	2	22-Jan-2010	929 U	929 U	929 U	464 U	929 U	464 U	929 U	929 U	929 U	929 U	929 U	464 U	464 U	4640 U	46400 U	**4350**	464 U	**2420**	464 U	**136 J**	464 U
South Area	SA-E16-D-F(3.5-4.0)	3.5-4.0	29-Apr-2010	49.4 U	49.4 U	49.4 U	24.7 U	49.4 U	24.7 U	49.4 U	49.4 U	49.4 U	49.4 U	49.4 U	24.7 U	24.7 U	247 U	2470 U	**60.2**	24.7 U	**110**	**8.17 J**	**11 J**	24.7 U
South Area	SA-E16-D-F(4.0-4.5)	4.0-4.5	29-Apr-2010	45.1 U	45.1 U	45.1 U	22.6 U	45.1 U	22.6 U	45.1 U	45.1 U	45.1 U	45.1 U	45.1 U	22.6 U	22.6 U	226 U	2260 U	**58.1**	22.6 U	**69.5**	**6.68 J**	**8.2 J**	22.6 U
South Area	SA-E16-D-F(4.5-5.0)	4.5-5.0	29-Apr-2010	47.2 U	47.2 U	47.2 U	23.6 U	47.2 U	23.6 U	47.2 U	47.2 U	47.2 U	47.2 U	47.2 U	23.6 U	23.6 U	236 U	2360 U	**21 J**	23.6 U	**65.3**	**7.36 J**	**5.54 J**	23.6 U
South Area	SA-E16-D-NW	0-2	22-Jan-2010	452 U	452 U	**169 J**	226 U	452 U	226 U	452 U	452 U	452 U	452 U	452 U	226 U	226 U	2260 U	22600 U	**584**	226 U	**2370**	**355**	**72.2 J**	226 U
South Area	SA-E16-E(2.5-3.0)-F	2.5-3	04-Mar-2010	4490 U	4490 U	4490 U	2240 U	4490 U	2240 U	4490 U	4490 U	4490 U	4490 U	4490 U	2240 U	2240 U	22400 U	224000 U	**55500**	2240 U	**18700**	**1240 J**	**2030 J**	2240 U
South Area	SA-E16-E(3.0-3.5)-F	3-3.5	04-Mar-2010	23000 U	23000 U	23000 U	11500 U	23000 U	11500 U	23000 U	23000 U	23000 U	23000 U	23000 U	11500 U	11500 U	115000 U	1150000 U	**46200**	11500 U	**10800 J**	11500 U	**3240 J**	11500 U
South Area	SA-E16-E-EW	0-2	22-Jan-2010	92.2 U	92.2 U	92.2 U	46.1 U	92.2 U	46.1 U	92.2 U	92.2 U	92.2 U	92.2 U	92.2 U	46.1 U	46.1 U	461 U	4610 U	46.1 U	46.1 U	92.2 U	46.1 U	46.1 U	46.1 U

TABLE 4-2 AOC-1 Soil Sampling Results

Soil Pesticide Data Summary - Southern Area (Rock Salt Warehouse)

Georgia Ports Authority, Bainbridge Terminal

		Proposed Site-Specific RRS Values (ug/kg):		*11,000*	*7,700*	*11,000*	*660*												*660*		*3,100*	*100*	*12,000*	
South Area	SA-E16-E-F	2	22-Jan-2010	893 U	893 U	893 U	446 U	893 U	446 U	893 U	893 U	893 U	893 U	893 U	446 U	446 U	4460 U	44600 U	**4280**	446 U	**5900**	446 U	**306 J**	446 U
South Area	SA-E16-E-F(3.5-4.0)	3.5-4.0	19-Apr-2010	92.6 U	92.6 U	92.6 U	46.3 U	92.6 U	46.3 U	92.6 U	92.6 U	92.6 U	92.6 U	92.6 U	46.3 U	46.3 U	463 U	4630 U	**952**	46.3 U	**337**	**232**	**255**	46.3 U
South Area	SA-E16-E-F(4.0-4.5)	4.0-4.5	19-Apr-2010	90.6 U	90.6 U	90.6 U	45.3 U	90.6 U	45.3 U	90.6 U	90.6 U	90.6 U	90.6 U	90.6 U	45.3 U	45.3 U	453 U	4530 U	**466**	45.3 U	**170**	**84**	**114**	45.3 U
South Area	SA-E16-E-F(4.5-5.0)	4.5-5.0	26-Apr-2010	47.2 U	47.2 U	47.2 U	23.6 U	47.2 U	23.6 U	47.2 U	47.2 U	47.2 U	47.2 U	47.2 U	23.6 U	23.6 U	236 U	2360 U	**4.47 J**	23.6 U	**17.7 J**	**5.43 J**	**7.27 J**	23.6 U
South Area	SA-E16-E-NW	0-2	22-Jan-2010	1810 U	1810 U	1810 U	906 U	1810 U	906 U	1810 U	1810 U	1810 U	1810 U	1810 U	906 U	906 U	9060 U	90600 U	**8400**	906 U	**2840**	906 U	**205 J**	906 U
South Area	SA-E16-F-F	2	25-Jan-2010	8.58 U	8.58 U	8.58 U	4.29 U	8.58 U	4.29 U	8.58 U	8.58 U	8.58 U	8.58 U	8.58 U	4.29 U	4.29 U	42.9 U	429 U	**4.13 J**	4.29 U	**13.9**	**10.9**	**1.41 J**	4.29 U
South Area	SA-E16-F-WW	0-2	25-Jan-2010	933 U	933 U	933 U	467 U	933 U	467 U	933 U	933 U	933 U	933 U	933 U	467 U	467 U	4670 U	46700 U	**1980**	467 U	**4600**	467 U	467 U	467 U
South Area	SA-E16-G(2.5-3.0)-F	2.5-3	04-Mar-2010	95000 U	95000 U	95000 U	47500 U	95000 U	47500 U	95000 U	95000 U	95000 U	95000 U	95000 U	47500 U	47500 U	475000 U	4750000 U	**2380000**	47500 U	**671000**	**82000**	**64100**	47500 U
South Area	SA-E16-G(3.0-3.5)-F	3-3.5	04-Mar-2010	47000 U	47000 U	47000 U	23500 U	47000 U	23500 U	47000 U	47000 U	47000 U	47000 U	47000 U	23500 U	23500 U	235000 U	2350000 U	**2140000**	23500 U	**356000**	**47500**	**119000**	23500 U
South Area	SA-E16-G-F	2	25-Jan-2010	22900 U	22900 U	22900 U	11500 U	22900 U	11500 U	22900 U	22900 U	22900 U	22900 U	22900 U	11500 U	11500 U	115000 U	1150000 U	**230000**	11500 U	**99000**	**7260 J**	**6240 J**	11500 U
South Area	SA-E16-G-F (10-11)	10.0-11.0	6/9/2010	42.2 U	42.2 U	42.2 U	21.1 U	42.2 U	21.1 U	42.2 U	42.2 U	42.2 U	42.2 U	42.2 U	21.1 U	21.1 U	211 U	2110 U	21.1 U	21.1 U	**10.2 J**	21.1 U	21.1 U	21.1 U
South Area	SA-E16-G-F (11-12)	11.0-12.0	6/9/2010	41.6 U	41.6 U	41.6 U	20.8 U	41.6 U	20.8 U	41.6 U	41.6 U	41.6 U	41.6 U	41.6 U	20.8 U	20.8 U	208 U	2080 U	20.8 U	20.8 U	**13.5 J**	20.8 U	20.8 U	20.8 U
South Area	SA-E16-G-F (8-9)	8.0-9.0	6/9/2010	42.8 U	42.8 U	42.8 U	21.4 U	42.8 U	21.4 U	42.8 U	42.8 U	42.8 U	42.8 U	42.8 U	21.4 U	21.4 U	214 U	2140 U	**2100 J**	21.4 U	**715 J**	**193**	**271**	21.4 U
South Area	SA-E16-G-F (9-10)	9.0-10.0	6/9/2010	41.2 U	41.2 U	41.2 U	20.6 U	41.2 U	20.6 U	41.2 U	41.2 U	41.2 U	41.2 U	41.2 U	20.6 U	20.6 U	206 U	2060 U	**6.8 J**	20.6 U	**18.1 J**	**4.53 J**	20.6 U	20.6 U
South Area	SA-E16-G-F(3.5-4.0)	3.5-4.0	27-Apr-2010	221000 U	221000 U	221000 U	111000 U	221000 U	111000 U	221000 U	221000 U	221000 U	221000 U	221000 U	111000 U	111000 U	1110000 U	11100000 U	**1,030,000**	111000 U	221000 U	111000 U	111000 U	111000 U
South Area	SA-E16-G-F(4.0-4.5)	4.0-4.5	27-Apr-2010	2290 U	2290 U	2290 U	1150 U	2290 U	1150 U	2290 U	2290 U	2290 U	2290 U	2290 U	1150 U	1150 U	11500 U	115000 U	**11,600**	1150 U	**9,490**	**2,080**	**996 J**	1150 U
South Area	SA-E16-G-F(4.5-5.0)	4.5-5.0	27-Apr-2010	469 U	469 U	469 U	234 U	469 U	234 U	469 U	469 U	469 U	469 U	469 U	234 U	234 U	2340 U	23400 U	**2,600,000**	234 U	**260,000**	**33,200 J**	**101,000**	234 U
South Area	SA-E16-G-F(5.0-6.0)	5.0-6.0	27-Apr-2010	229 U	229 U	229 U	114 U	229 U	114 U	229 U	229 U	229 U	229 U	229 U	114 U	114 U	1140 U	11400 U	**2850**	114 U	**832**	**510**	**160**	114 U
South Area	SA-E16-G-F(6.0-7.0)	6.0-7.0	27-Apr-2010	227 U	227 U	227 U	113 U	227 U	113 U	227 U	227 U	227 U	227 U	227 U	113 U	113 U	1130 U	11300 U	**3920**	113 U	**686**	**446**	**169**	113 U
South Area	SA-E16-G-F(7.0-8.0)	7.0-8.0	27-Apr-2010	44.9 U	44.9 U	44.9 U	22.5 U	44.9 U	22.5 U	44.9 U	44.9 U	44.9 U	44.9 U	44.9 U	22.5 U	22.5 U	225 U	2250 U	**111**	22.5 U	**108**	**350**	**9.28 J**	22.5 U
South Area	SA-E16-H(2.5-3.0)-F	2.5-3	04-Mar-2010	22500 U	22500 U	22500 U	11300 U	22500 U	11300 U	22500 U	22500 U	22500 U	22500 U	22500 U	11300 U	11300 U	113000 U	1130000 U	**55500**	11300 U	**180000**	**8920 J**	**3280 J**	11300 U
South Area	SA-E16-H(3.0-3.5)-F	3-3.5	04-Mar-2010	91500 U	91500 U	91500 U	45700 U	91500 U	45700 U	91500 U	91500 U	91500 U	91500 U	91500 U	45700 U	45700 U	457000 U	4570000 U	**3210000**	45700 U	**1840000**	**107000**	**161000**	45700 U
South Area	SA-E16-H-F	2	25-Jan-2010	22900 U	22900 U	22900 U	11400 U	22900 U	11400 U	22900 U	22900 U	22900 U	22900 U	22900 U	11400 U	11400 U	114000 U	1140000 U	**1150000**	11400 U	**1030000**	**43600**	**51800**	11400 U
South Area	SA-E16-H-F (2-4)	2.0-4.0	6/10/2010	41.2 U	41.2 U	41.2 U	20.6 U	41.2 U	20.6 U	41.2 U	41.2 U	41.2 U	41.2 U	41.2 U	20.6 U	20.6 U	206 U	2060 U	**292**	20.6 U	**84.6**	**18.4 J**	**70**	20.6 U
South Area	SA-E16-H-F (4-6)	4.0-6.0	6/10/2010	41.7 U	41.7 U	41.7 U	20.9 U	41.7 U	20.9 U	41.7 U	41.7 U	41.7 U	41.7 U	41.7 U	20.9 U	20.9 U	209 U	2090 U	**13.7 J**	20.9 U	**12.4 J**	**4.54 J**	**4.68 J**	20.9 U
South Area	SA-E16-H-F (6-8)	6.0-8.0	6/10/2010	40.2 U	40.2 U	40.2 U	20.1 U	40.2 U	20.1 U	40.2 U	40.2 U	40.2 U	40.2 U	40.2 U	20.1 U	20.1 U	201 U	2010 U	**5.63 J**	20.1 U	40.2 U	20.1 U	20.1 U	20.1 U
South Area	SA-E16-H-F (8.0-9.0)	8.0-9.0	6/3/2010	240 U	240 U	240 U	120 U	240 U	120 U	240 U	240 U	240 U	240 U	240 U	120 U	120 U	1200 U	12000 U	**1540**	120 U	**3760**	**934**	**209**	120 U
South Area	SA-E16-H-F (8-10)	8.0-10.0	6/10/2010	39.8 U	39.8 U	39.8 U	19.9 U	39.8 U	19.9 U	39.8 U	39.8 U	39.8 U	39.8 U	39.8 U	19.9 U	19.9 U	199 U	1990 U	**6.81 J**	19.9 U	39.8 U	**8.96 J**	19.9 U	19.9 U
South Area	SA-E16-H-F (9.0-10.0)	9.0-10.0	6/3/2010	88 U	88 U	88 U	44 U	88 U	44 U	88 U	88 U	88 U	88 U	88 U	44 U	44 U	440 U	4400 U	**484**	44 U	**694**	**330**	**30.3 J**	44 U
South Area	SA-E16-H-F(3.5-4.0)	3.5-4.0	20-Apr-2010	23200 U	23200 U	23200 U	11600 U	23200 U	11600 U	23200 U	23200 U	23200 U	23200 U	23200 U	11600 U	11600 U	116000 U	1160000 U	**128,000**	11600 U	**104,000**	**19,800**	**19,800**	11600 U
South Area	SA-E16-H-F(4.0-4.5)	4.0-4.5	20-Apr-2010	23000 U	23000 U	23000 U	11500 U	23000 U	11500 U	23000 U	23000 U	23000 U	23000 U	23000 U	11500 U	11500 U	115000 U	1150000 U	**323,000**	11500 U	**115,000**	**17,300**	**23,100**	11500 U
South Area	SA-E16-H-F(4.5-5.0)	4.5-5.0	26-Apr-2010	57.6 U	57.6 U	57.6 U	28.8 U	57.6 U	28.8 U	57.6 U	57.6 U	57.6 U	57.6 U	57.6 U	28.8 U	28.8 U	288 U	2880 U	**12,700**	28.8 U	**2,460 J**	**1,440**	**2,310**	28.8 U
South Area	SA-E16-H-F(5.0-6.0)	5.0-6.0	26-Apr-2010	237 U	237 U	237 U	118 U	237 U	118 U	237 U	237 U	237 U	237 U	237 U	118 U	118 U	1180 U	11800 U	**6190**	118 U	**1330**	**898**	**1530**	118 U
South Area	SA-E16-H-F(6.0-7.0)	6.0-7.0	26-Apr-2010	286 U	286 U	286 U	143 U	286 U	143 U	286 U	286 U	286 U	286 U	286 U	143 U	143 U	1430 U	14300 U	**4020**	143 U	**672**	**672**	**653**	143 U
South Area	SA-E16-H-F(7.0-8.0)	7.0-8.0	26-Apr-2010	44.9 U	44.9 U	44.9 U	22.5 U	44.9 U	22.5 U	44.9 U	44.9 U	44.9 U	44.9 U	44.9 U	22.5 U	22.5 U	225 U	2250 U	**1620**	22.5 U	**259**	**304**	**216**	22.5 U
South Area	SA-E16-I (2.5-3.0)	2.5-3	03-Mar-2010	9130 U	9130 U	9130 U	4570 U	9130 U	4570 U	9130 U	9130 U	9130 U	9130 U	9130 U	4570 U	4570 U	45700 U	457000 U	**48600**	4570 U	**20800**	**5780**	**3180 J**	4570 U
South Area	SA-E16-I (3.0-3.5)	3-3.5	03-Mar-2010	8850 U	8850 U	8850 U	4430 U	8850 U	4430 U	8850 U	8850 U	8850 U	8850 U	8850 U	4430 U	4430 U	44300 U	443000 U	**55900**	4430 U	**14600**	**1350 J**	**2110 J**	4430 U
South Area	SA-E16-I-F	2	25-Jan-2010	4450 U	4450 U	4450 U	2230 U	4450 U	2230 U	4450 U	4450 U	4450 U	4450 U	4450 U	2230 U	2230 U	22300 U	223000 U	**19000**	2230 U	**24600**	**4440**	**938 J**	2230 U
South Area	SA-E16-I-F (10-11)	10.0-11.0	6/10/2010	43.9 U	43.9 U	43.9 U	22 U	43.9 U	22 U	43.9 U	43.9 U	43.9 U	43.9 U	43.9 U	22 U	22 U	220 U	2200 U	**35.2**	22 U	**56.2**	**31.7**	**45.2**	22 U
South Area	SA-E16-I-F (11-12)	11.0-12.0	6/10/2010	43.5 U	43.5 U	43.5 U	21.8 U	43.5 U	21.8 U	43.5 U	43.5 U	43.5 U	43.5 U	43.5 U	21.8 U	21.8 U	218 U	2180 U	**34.9**	21.8 U	**81.8**	**39.8**	**44.7**	21.8 U
South Area	SA-E16-I-F (8-9)	8.0-9.0	6/3/2010	240 U	240 U	240 U	120 U	240 U	120 U	240 U	240 U	240 U	240 U	240 U	120 U	120 U	1200 U	12000 U	**6870**	120 U	**1000**	**271**	**832**	120 U
South Area	SA-E16-I-F (8-9)	8.0-9.0	6/10/2010	43.1 U	43.1 U	43.1 U	21.6 U	43.1 U	21.6 U	43.1 U	43.1 U	43.1 U	43.1 U	43.1 U	21.6 U	21.6 U	216 U	2160 U	**65.1**	21.6 U	**85.7**	**48.8**	**74.9**	21.6 U
South Area	SA-E16-I-F (9-10)	9.0-10.0	6/3/2010	91.1 U	91.1 U	91.1 U	45.6 U	91.1 U	45.6 U	91.1 U	91.1 U	91.1 U	91.1 U	91.1 U	45.6 U	45.6 U	456 U	4560 U	**2390**	45.6 U	**387**	**231**	**429**	45.6 U
South Area	SA-E16-I-F (9-10)	9.0-10.0	6/10/2010	44.6 U	44.6 U	44.6 U	22.3 U	44.6 U	22.3 U	44.6 U	44.6 U	44.6 U	44.6 U	44.6 U	22.3 U	22.3 U	223 U	2230 U	**44.9**	22.3 U	**80.8**	**38.4**	**53.9**	22.3 U
South Area	SA-E16-I-F(3.5-4.0)	3.5-4.0	19-Apr-2010	891 U	891 U	891 U	445 U	891 U	445 U	891 U	891 U	891 U	891 U	891 U	445 U	445 U	4450 U	44500 U	**9,860**	445 U	**3,920**	**2,580**	**1,910**	445 U
South Area	SA-E16-I-F(4.0-4.5)	4.0-4.5	19-Apr-2010	227000 U	227000 U	227000 U	114000 U	227000 U	114000 U	227000 U	227000 U	227000 U	227000 U	227000 U	114000 U	114000 U	1140000 U	11400000 U	**3,860,000**	114000 U	**534,000**	**216,000**	**670,000**	114000 U
South Area	SA-E16-I-F(4.5-5.0)	4.5-5.0	26-Apr-2010	46.8 U	46.8 U	46.8 U	23.4 U	46.8 U	23.4 U	46.8 U	46.8 U	46.8 U	46.8 U	46.8 U	23.4 U	23.4 U	234 U	2340 U	**18,800**	23.4 U	**2,930**	**1,290**	**2,460**	23.4 U
South Area	SA-E16-I-F(5.0-6.0)	5.0-6.0	26-Apr-2010	47 U	47 U	47 U	23.5 U	47 U	23.5 U	47 U	47 U	47 U	47 U	47 U	23.5 U	23.5 U	235 U	2350 U	**236**	23.5 U	**47.7**	**131**	**78.8**	23.5 U
South Area	SA-E16-I-F(6.0-7.0)	6.0-7.0	26-Apr-2010	48.1 U	48.1 U	48.1 U	24 U	48.1 U	24 U	48.1 U	48.1 U	48.1 U	48.1 U	48.1 U	24 U	24 U	240 U	2400 U	**6.49 J**	24 U	48.1 U	24 U	24 U	24 U
South Area	SA-E16-I-F(7.0-8.0)	7.0-8.0	26-Apr-2010	45.8 U	45.8 U	45.8 U	22.9 U	45.8 U	22.9 U	45.8 U	45.8 U	45.8 U	45.8 U	45.8 U	22.9 U	22.9 U	229 U	2290 U	**672**	22.9 U	**101**	**186**	**49.8**	22.9 U
South Area	SA-E16-J-EW	0-2	22-Jan-2010	22.6 U	22.6 U	22.6 U	11.3 U	22.6 U	11.3 U	22.6 U	22.6 U	22.6 U	22.6 U	22.6 U	11.3 U	11.3 U	113 U	1130 U	**22**	11.3 U	**136**	11.3 U	**3.46 J**	11.3 U
South Area	SA-E16-J-F	2	25-Jan-2010	22.4 U	22.4 U	22.4 U	11.2 U	22.4 U	11.2 U	22.4 U	22.4 U	22.4 U	22.4 U	22.4 U	11.2 U	11.2 U	112 U	1120 U	**7.19 J**	11.2 U	**23.4**	11.2 U	11.2 U	11.2 U
South Area	SA-E16-K-EW (4-5)	4-5	28-Jan-2010	46.1 U	46.1 U	46.1 U	23.1 U	46.1 U	23.1 U	46.1 U	46.1 U	46.1 U	46.1 U	46.1 U	23.1 U	23.1 U	231 U	2310 U	**33.9**	23.1 U	**73.6**	23.1 U	23.1 U	23.1 U
South Area	SA-E16-K-F	2	26-Jan-2010	46.9 U	46.9 U	46.9 U	23.5 U	46.9 U	23.5 U	46.9 U	46.9 U	46.9 U	46.9 U	46.9 U	23.5 U	23.5 U	235 U	2350 U	**8.09 J**	23.5 U	**56.7**	23.5 U	23.5 U	23.5 U
South Area	SA-E16-K-F-D	2	26-Jan-2010	47.3 U	47.3 U	47.3 U	23.7 U	47.3 U	23.7 U	47.3 U	47.3 U	47.3 U	47.3 U	47.3 U	23.7 U	23.7 U	237 U	2370 U	23.7 U	23.7 U	**50.5**	23.7 U	23.7 U	23.7 U
South Area	SA-E16-K-WW	0-2	26-Jan-2010	1870 U	1870 U	1870 U	937 U	1870 U	937 U	1870 U	1870 U	1870 U	1870 U	1870 U	937 U	937 U	9370 U	93700 U	**14200**	937 U	**9760**	937 U	**541 J**	937 U
South Area	SA-E16-K-WW (4-5)	4-5	28-Jan-2010	45 U	45 U	45 U	22.5 U	45 U	22.5 U	45 U	45 U	45 U	45 U	45 U	22.5 U	22.5 U	225 U	2250 U	**7.44 J**	22.5 U	**28.6 J**	22.5 U	22.5 U	22.5 U
South Area	SA-E16-K-WW05(0-2)	0-2	10-Mar-2010	2290 U	2290 U	2290 U	1150 U	2290 U	1150 U	2290 U	2290 U	2290 U	2290 U	2290 U	1150 U	1150 U	11500 U	115000 U	**13900**	1150 U	**17400**	1150 U	**356 J**	1150 U
South Area	SA-E16-K-WW10-(0-2)	0-2	10-Mar-2010	44300 U	44300 U	44300 U	22200 U	44300 U	22200 U	44300 U	44300 U	44300 U	44300 U	44300 U	22200 U	22200 U	222000 U	2220000 U	**225000**	22200 U	**61900**	22200 U	**5630 J**	22200 U
South Area	SA-E16-K-WW10(2.5-3.0)	2.5-3	10-Mar-2010	45.9 U	45.9 U	45.9 U	22.9 U	45.9 U	22.9 U	45.9 U	45.9 U	45.9 U	45.9 U	45.9 U	22.9 U	22.9 U	229 U	2290 U	**73.9**	22.9 U	**300**	**196**	22.9 U	22.9 U
South Area	SA-E16-K-WW10(3.0-3.5)	3-3.5	10-Mar-2010	45 U	45 U	45 U	22.5 U	45 U	22.5 U	45 U	45 U	45 U	45 U	45 U	22.5 U	22.5 U	225 U	2250 U	**6.42 J**	22.5 U	**108**	**132**	22.5 U	22.5 U
South Area	SA-E16-K-WW10(3.5-4.0)	3.5-4.0	29-Apr-2010	44.3 U	44.3 U	44.3 U	22.2 U	44.3 U	22.2 U	44.3 U	44.3 U	44.3 U	44.3 U	44.3 U	22.2 U	22.2 U	222 U	2220 U	**123**	22.2 U	**246**	**30.2**	**4.69 J**	22.2 U
South Area	SA-E16-K-WW10(4.0-4.5)	4.0-4.5	29-Apr-2010	44.2 U	44.2 U	44.2 U	22.1 U	44.2 U	22.1 U	44.2 U	44.2 U	44.2 U	44.2 U	44.2 U	22.1 U	22.1 U	221 U	2210 U	**23.4**	22.1 U	**312**	**44.5**	22.1 U	22.1 U
South Area	SA-E16-K-WW10(4.5-5.0)	4.5-5.0	29-Apr-2010	45 U	45 U	45 U	22.5 U	45 U	22.5 U	45 U	45 U	45 U	45 U	45 U	22.5 U	22.5 U	225 U	2250 U	**11.3 J**	22.5 U	**62.3**	**18.1 J**	22.5 U	22.5 U
South Area	SA-E16-K-WW15-(0-2)	0-2	10-Mar-2010	453 U	453 U	453 U	227 U	453 U	227 U	453 U	453 U	453 U	453 U	453 U	227 U	227 U	2270 U	22700 U	**3650**	227 U	**2170**	227 U	**95.8 J**	227 U

TABLE 4-2 AOC-1 Soil Sampling Results

Soil Pesticide Data Summary - Southern Area (Rock Salt Warehouse)

Georgia Ports Authority, Bainbridge Terminal

			Proposed Site-Specific RRS Values (ug/kg):	*11,000*	*7,700*	*11,000*	*660*												*660*		*3,100*	*100*	*12,000*	
South Area	SA-E16-K-WW15(3.5-4.0)	3.5-4.0	29-Apr-2010	43.9 U	43.9 U	43.9 U	22 U	43.9 U	22 U	43.9 U	43.9 U	43.9 U	43.9 U	43.9 U	22 U	22 U	220 U	2200 U	**22.7**	22 U	**152**	**82.6**	22 U	22 U
South Area	SA-E16-K-WW15(4.0-4.5)	4.0-4.5	29-Apr-2010	43.1 U	43.1 U	43.1 U	21.5 U	43.1 U	21.5 U	43.1 U	43.1 U	43.1 U	43.1 U	43.1 U	21.5 U	21.5 U	215 U	2150 U	**19.6 J**	21.5 U	**70.7**	**115**	21.5 U	21.5 U
South Area	SA-E16-K-WW15(4.5-5.0)	4.5-5.0	29-Apr-2010	43.8 U	43.8 U	43.8 U	21.9 U	43.8 U	21.9 U	43.8 U	43.8 U	43.8 U	43.8 U	43.8 U	21.9 U	21.9 U	219 U	2190 U	**104**	21.9 U	**44.1**	**77.2**	**21.9 U**	21.9 U
South Area	SA-E16-K-WW5(3.5-4.0)	3.5-4.0	22-Apr-2010	45.5 U	45.5 U	45.5 U	22.7 U	45.5 U	22.7 U	45.5 U	45.5 U	45.5 U	45.5 U	45.5 U	22.7 U	22.7 U	227 U	2270 U	**6.04 J**	22.7 U	**51.2**	**36.4**	22.7 U	22.7 U
South Area	SA-E16-K-WW5(4.0-4.5)	4.0-4.5	22-Apr-2010	55.8 U	55.8 U	55.8 U	27.9 U	55.8 U	27.9 U	55.8 U	55.8 U	55.8 U	55.8 U	55.8 U	27.9 U	27.9 U	279 U	2790 U	**22.9 J**	27.9 U	**128**	**34.5**	27.9 U	27.9 U
South Area	SA-E16-K-WW5(4.5-5.0)	4.5-5.0	29-Apr-2010	88.1 U	88.1 U	88.1 U	44 U	88.1 U	44 U	88.1 U	88.1 U	88.1 U	88.1 U	88.1 U	44 U	44 U	440 U	4400 U	**1,100**	44 U	**499**	**146**	**28.8 J**	44 U
South Area	SA-E16-K-WW5(5.0-6.0)	5.0-6.0	29-Apr-2010	44.3 U	44.3 U	44.3 U	22.1 U	44.3 U	22.1 U	44.3 U	44.3 U	44.3 U	44.3 U	44.3 U	22.1 U	22.1 U	221 U	2210 U	**50.3**	22.1 U	**74.9**	**83.5**	22.1 U	22.1 U
South Area	SA-E16-L(2.5-3.0)-F	2.5-3	08-Mar-2010	932000 U	932000 U	932000 U	466000 U	932000 U	466000 U	932000 U	932000 U	932000 U	932000 U	932000 U	466000 U	466000 U	4660000 U	46600000 U	**5680000**	466000 U	**996000**	**214000 J**	**402000 J**	466000 U
South Area	SA-E16-L(3.0-3.5)-F	3-3.5	08-Mar-2010	1890000 U	1890000 U	1890000 U	946000 U	1890000 U	946000 U	1890000 U	1890000 U	1890000 U	1890000 U	1890000 U	946000 U	946000 U	9460000 U	94600000 U	**9240000**	946000 U	**1630000 J**	**630000 J**	**1250000**	946000 U
South Area	SA-E16-L(3.5-4.0)-F	3.5-4	08-Mar-2010	463000 U	463000 U	463000 U	231000 U	463000 U	231000 U	463000 U	463000 U	463000 U	463000 U	463000 U	231000 U	231000 U	2310000 U	23100000 U	**3000000**	231000 U	**495000**	**156000 J**	**228000 J**	231000 U
South Area	SA-E16-L-F	2	25-Jan-2010	2300 U	2300 U	2300 U	1150 U	2300 U	1150 U	2300 U	2300 U	2300 U	2300 U	2300 U	1150 U	1150 U	11500 U	115000 U	**6130**	1150 U	**15800**	1150 U	**378 J**	1150 U
South Area	SA-E16-L-F(4.0-4.5)	4.0-4.5	21-Apr-2010	46200 U	46200 U	46200 U	23100 U	46200 U	23100 U	46200 U	46200 U	46200 U	46200 U	46200 U	23100 U	23100 U	231000 U	2310000 U	**1,390,000**	23100 U	**197,000**	**63,800**	**151,000**	23100 U
South Area	SA-E16-L-F(4.5-5.0)	4.5-5.0	21-Apr-2010	4900 U	4900 U	4900 U	2450 U	4900 U	2450 U	4900 U	4900 U	4900 U	4900 U	4900 U	2450 U	2450 U	24500 U	245000 U	**220,000**	2450 U	**29,400**	**13,500**	**22,200**	2450 U
South Area	SA-E16-L-F(5.0-6.0)	5.0-6.0	27-Apr-2010	48.4 U	48.4 U	48.4 U	24.2 U	48.4 U	24.2 U	48.4 U	48.4 U	48.4 U	48.4 U	48.4 U	24.2 U	24.2 U	242 U	2420 U	**146**	24.2 U	**106**	**52.4**	**4.63 J**	24.2 U
South Area	SA-E16-M(2.5-3.0)-F	2.5-3	04-Mar-2010	2310 U	2310 U	2310 U	1150 U	2310 U	1150 U	2310 U	2310 U	2310 U	2310 U	2310 U	1150 U	1150 U	11500 U	115000 U	**12400**	1150 U	**15100**	**2710**	**596 J**	1150 U
South Area	SA-E16-M(3.0-3.5)-F	3-3.5	04-Mar-2010	88500 U	88500 U	88500 U	44200 U	88500 U	44200 U	88500 U	88500 U	88500 U	88500 U	88500 U	44200 U	44200 U	442000 U	4420000 U	**2020000**	44200 U	**304000**	**112000**	**292000**	44200 U
South Area	SA-E16-M(3.5-4.0)-F	3.5-4	05-Mar-2010	4630 U	4630 U	4630 U	2310 U	4630 U	2310 U	4630 U	4630 U	4630 U	4630 U	4630 U	2310 U	2310 U	23100 U	231000 U	**37600**	2310 U	**7240**	**1280 J**	**2860**	2310 U
South Area	SA-E16-M(4.0-4.5)-F	4-4.5	05-Mar-2010	1860 U	1860 U	1860 U	930 U	1860 U	930 U	1860 U	1860 U	1860 U	1860 U	1860 U	930 U	930 U	9300 U	93000 U	**9200**	930 U	**8490**	**314 J**	**922 J**	930 U
South Area	SA-E16-M-F	2	25-Jan-2010	22800 U	22800 U	22800 U	11400 U	22800 U	11400 U	22800 U	22800 U	22800 U	22800 U	22800 U	11400 U	11400 U	114000 U	1140000 U	**328000**	11400 U	**82000**	**7520 J**	**11800**	11400 U
South Area	SA-E16-M-F(4.0-4.5)	4.0-4.5	21-Apr-2010	4790 U	4790 U	4790 U	2390 U	4790 U	2390 U	4790 U	4790 U	4790 U	4790 U	4790 U	2390 U	2390 U	23900 U	239000 U	**37,100**	2390 U	**6,820**	**3,310**	**5,540**	2390 U
South Area	SA-E16-M-F(4.5-5.0)	4.5-5.0	21-Apr-2010	4560 U	4560 U	4560 U	2280 U	4560 U	2280 U	4560 U	4560 U	4560 U	4560 U	4560 U	2280 U	2280 U	22800 U	228000 U	**40,600**	2280 U	**8,930**	**2,670**	**8,000**	2280 U
South Area	SA-E16-M-F(5.0-6.0)	5.0-6.0	26-Apr-2010	49.2 U	49.2 U	49.2 U	24.6 U	49.2 U	24.6 U	49.2 U	49.2 U	49.2 U	49.2 U	49.2 U	24.6 U	24.6 U	246 U	2460 U	**68.3**	24.6 U	**43.5 J**	**36**	24.6 U	24.6 U
South Area	SA-E16-M-SW	0-2	25-Jan-2010	22900 U	22900 U	22900 U	11500 U	22900 U	11500 U	22900 U	22900 U	22900 U	22900 U	22900 U	11500 U	11500 U	115000 U	1150000 U	**711000**	11500 U	**150000**	**32000**	**93300**	11500 U
South Area	SA-E16-N (2.5-3.0)	2.5-3	03-Mar-2010	119 U	119 U	119 U	59.5 U	119 U	59.5 U	119 U	119 U	119 U	119 U	119 U	59.5 U	59.5 U	595 U	5950 U	**572**	59.5 U	**131**	**23.8 J**	**32.2 J**	59.5 U
South Area	SA-E16-N (3.0-3.5)	3-3.5	03-Mar-2010	915 U	915 U	915 U	457 U	915 U	457 U	915 U	915 U	915 U	915 U	915 U	457 U	457 U	4570 U	45700 U	**5930**	457 U	**5000**	**2440**	**674**	457 U
South Area	SA-E16-N-F	2	25-Jan-2010	451 U	451 U	451 U	226 U	451 U	226 U	451 U	451 U	451 U	451 U	451 U	226 U	226 U	2260 U	22600 U	**1150**	226 U	**3440**	226 U	**43.4 J**	226 U
South Area	SA-E16-N-F(3.5-4.0)	3.5-4.0	21-Apr-2010	228 U	228 U	228 U	114 U	228 U	114 U	228 U	228 U	228 U	228 U	228 U	114 U	114 U	1140 U	11400 U	**49,300**	114 U	**18,300 J**	**6,640 J**	**4,250 J**	114 U
South Area	SA-E16-N-F(4.0-4.5)	4.0-4.5	21-Apr-2010	45.3 U	45.3 U	45.3 U	22.7 U	45.3 U	22.7 U	45.3 U	45.3 U	45.3 U	45.3 U	45.3 U	22.7 U	22.7 U	227 U	2270 U	**20,000**	22.7 U	**4,810 J**	**355**	11300 U	22.7 U
South Area	SA-E16-N-F(4.5-5.0)	4.5-5.0	26-Apr-2010	529 U	529 U	529 U	264 U	529 U	264 U	529 U	529 U	529 U	529 U	529 U	264 U	264 U	2640 U	26400 U	**34,500**	264 U	**9280**	**3,850**	**1,680**	264 U
South Area	SA-E16-N-F(5.0-6.0)	5.0-6.0	26-Apr-2010	240000 U	240000 U	240000 U	120000 U	240000 U	120000 U	240000 U	240000 U	240000 U	240000 U	240000 U	120000 U	120000 U	1200000 U	12000000 U	**5850000**	120000 U	**680000**	**142000**	**530000**	120000 U
South Area	SA-E16-N-F(6.0-7.0)	6.0-7.0	26-Apr-2010	225 U	225 U	225 U	112 U	225 U	112 U	225 U	225 U	225 U	225 U	225 U	112 U	112 U	1120 U	11200 U	**906**	112 U	**1130**	**229**	**98.3 J**	112 U
South Area	SA-E16-N-F(7.0-8.0)	7.0-8.0	26-Apr-2010	50.6 U	50.6 U	50.6 U	25.3 U	50.6 U	25.3 U	50.6 U	50.6 U	50.6 U	50.6 U	50.6 U	25.3 U	25.3 U	253 U	2530 U	**144**	25.3 U	**26.9 J**	**12.4 J**	**24.5 J**	25.3 U
South Area	SA-E16-N-SW	0-2	25-Jan-2010	2260 U	2260 U	2260 U	1130 U	2260 U	1130 U	2260 U	2260 U	2260 U	2260 U	2260 U	1130 U	1130 U	11300 U	113000 U	**24700**	1130 U	**8150**	**2870**	**3670**	1130 U
South Area	SA-E16-O-EW	0-2	25-Jan-2010	92 U	92 U	92 U	46 U	92 U	46 U	92 U	92 U	92 U	92 U	92 U	46 U	46 U	460 U	4600 U	**219**	46 U	**365**	46 U	**24.1 J**	46 U
South Area	SA-E16-O-F	2	25-Jan-2010	45.4 U	45.4 U	45.4 U	22.7 U	45.4 U	22.7 U	45.4 U	45.4 U	45.4 U	45.4 U	45.4 U	22.7 U	22.7 U	227 U	2270 U	**16.1 J**	22.7 U	**89.9**	22.7 U	22.7 U	22.7 U
South Area	SA-E16-P-F	2	26-Jan-2010	46.9 U	46.9 U	46.9 U	23.5 U	46.9 U	23.5 U	46.9 U	46.9 U	46.9 U	46.9 U	46.9 U	23.5 U	23.5 U	235 U	2350 U	**17.5 J**	23.5 U	**51.9**	23.5 U	23.5 U	23.5 U
South Area	SA-E16-P-F-CL (4-5)	4-5	28-Jan-2010	2340 U	2340 U	2340 U	1170 U	2340 U	1170 U	2340 U	2340 U	2340 U	2340 U	2340 U	1170 U	1170 U	11700 U	117000 U	**13000**	1170 U	**3410**	**2580**	**1160 J**	1170 U
South Area	SA-E16-PIT-F (4-5)	4-5	09-Mar-2010	459 U	459 U	459 U	230 U	459 U	230 U	459 U	459 U	459 U	459 U	459 U	230 U	230 U	2300 U	23000 U	**2230**	230 U	**2240**	**362**	**436**	230 U
South Area	SA-E16-PIT-F (5-6)	5-6	10-Mar-2010	4670 U	4670 U	4670 U	2330 U	4670 U	2330 U	4670 U	4670 U	4670 U	4670 U	4670 U	2330 U	2330 U	23300 U	233000 U	**22500**	2330 U	**5080**	**591 J**	**3310**	2330 U
South Area	SA-E16-PIT-F(6.0-6.5)	6.0-6.5	27-Apr-2010	468 U	468 U	468 U	234 U	468 U	234 U	468 U	468 U	468 U	468 U	468 U	234 U	234 U	2340 U	23400 U	**3,190 B**	234 U	**1,530**	**862**	**236**	234 U
South Area	SA-E16-PIT-F(6.5-7.0)	6.5-7.0	27-Apr-2010	457 U	457 U	457 U	229 U	457 U	229 U	457 U	457 U	457 U	457 U	457 U	229 U	229 U	2290 U	22900 U	**1,960 B**	229 U	**3,120**	**1730**	**347**	229 U
South Area	SA-E16-PIT-F(7-8)	7.0-8.0	27-Apr-2010	935 U	935 U	935 U	468 U	935 U	468 U	935 U	935 U	935 U	935 U	935 U	468 U	468 U	4680 U	46800 U	**6,710 B**	468 U	**1650**	**1,110**	**453 J**	468 U
South Area	SA-E16-PIT-F(8-9)	8.0-9.0	27-Apr-2010	44.3 U	44.3 U	44.3 U	22.1 U	44.3 U	22.1 U	44.3 U	44.3 U	44.3 U	44.3 U	44.3 U	22.1 U	22.1 U	221 U	2210 U	**24.4 B**	22.1 U	**47.7**	22.1 U	22.1 U	22.1 U
South Area	SA-E16-PIT-F(9-10)	9.0-10.0	27-Apr-2010	44.1 U	44.1 U	44.1 U	22.1 U	44.1 U	22.1 U	44.1 U	44.1 U	44.1 U	44.1 U	44.1 U	22.1 U	22.1 U	221 U	2210 U	**22.1 U**	22.1 U	**18.3 J**	22.1 U	22.1 U	22.1 U
South Area	SA-E16-PIT-SW (4-5)	4-5	10-Mar-2010	1900 U	1900 U	1900 U	949 U	1900 U	949 U	1900 U	1900 U	1900 U	1900 U	1900 U	949 U	949 U	9490 U	94900 U	**9370**	949 U	**2880**	**3120**	**1170**	949 U
South Area	SA-E16-PIT-SW (6.0-6.5)	6.0-6.5	27-Apr-2010	46.6 U	46.6 U	46.6 U	23.3 U	46.6 U	23.3 U	46.6 U	46.6 U	46.6 U	46.6 U	46.6 U	23.3 U	23.3 U	233 U	2330 U	**5.9 J**	23.3 U	**10.9 J**	23.3 U	23.3 U	23.3 U
South Area	SA-E16-PIT-SW (6.5-7.0)	6.5-7.0	27-Apr-2010	4570 U	4570 U	4570 U	2280 U	4570 U	2280 U	4570 U	4570 U	4570 U	4570 U	4570 U	2280 U	2280 U	22800 U	228000 U	**23,200**	2280 U	**4570 U**	2280 U	2280 U	2280 U
South Area	SA-E16-PIT-SW (7.0-8.0)	7.0-8.0	27-Apr-2010	46 U	46 U	46 U	23 U	46 U	23 U	46 U	46 U	46 U	46 U	46 U	23 U	23 U	230 U	2300 U	**19.5 J**	23 U	**22.8 J**	23 U	23 U	23 U
South Area	SA-E16-PIT-SW (8.0-9.0)	8.0-9.0	27-Apr-2010	44.4 U	44.4 U	44.4 U	22.2 U	44.4 U	22.2 U	44.4 U	44.4 U	44.4 U	44.4 U	44.4 U	22.2 U	22.2 U	222 U	2220 U	22.2 U	22.2 U	44.4 U	22.2 U	22.2 U	22.2 U
South Area	SA-E16-PIT-SW (9.0-10)	9.0-10	27-Apr-2010	43.6 U	43.6 U	43.6 U	21.8 U	43.6 U	21.8 U	43.6 U	43.6 U	43.6 U	43.6 U	43.6 U	21.8 U	21.8 U	218 U	2180 U	21.8 U	21.8 U	**13.3 J**	21.8 U	21.8 U	21.8 U
South Area	SA-E16-PIT-SW-(5-6)	5-6	10-Mar-2010	196 U	196 U	196 U	97.9 U	196 U	97.9 U	196 U	196 U	196 U	196 U	196 U	97.9 U	97.9 U	979 U	9790 U	**921**	97.9 U	**311**	**37.7 J**	**77 J**	97.9 U
South Area	SA-E16-P-WW	0-2	26-Jan-2010	880 U	880 U	880 U	440 U	880 U	440 U	880 U	880 U	880 U	880 U	880 U	440 U	440 U	4400 U	44000 U	**4010**	440 U	**4680**	440 U	**116 J**	440 U
South Area	SA-E16-P-WW05-(0-2.0)	0-2	10-Mar-2010	899 U	899 U	899 U	450 U	899 U	450 U	899 U	899 U	899 U	899 U	899 U	450 U	450 U	4500 U	45000 U	**5410**	450 U	**5620**	**169 J**	**192 J**	450 U
South Area	SA-E16-P-WW10 (3.0-3.5)	3-3.5	10-Mar-2010	46.5 U	46.5 U	46.5 U	23.3 U	46.5 U	23.3 U	46.5 U	46.5 U	46.5 U	46.5 U	46.5 U	23.3 U	23.3 U	233 U	2330 U	23.3 U	23.3 U	**14.1 J**	23.3 U	23.3 U	23.3 U
South Area	SA-E16-P-WW10-(0-2.0)	0-2	10-Mar-2010	469 U	469 U	469 U	234 U	469 U	234 U	469 U	469 U	469 U	469 U	469 U	234 U	234 U	2340 U	23400 U	**3050**	234 U	**2110**	234 U	**64.6 J**	234 U
South Area	SA-E16-P-WW10(2.5-3.0)	2.5-3	10-Mar-2010	46.2 U	46.2 U	46.2 U	23.1 U	46.2 U	23.1 U	46.2 U	46.2 U	46.2 U	46.2 U	46.2 U	23.1 U	23.1 U	231 U	2310 U	23.1 U	23.1 U	46.2 U	23.1 U	23.1 U	23.1 U
South Area	SA-E16-P-WW15(0-2)	0-2	10-Mar-2010	47.4 U	47.4 U	47.4 U	23.7 U	47.4 U	23.7 U	47.4 U	47.4 U	47.4 U	47.4 U	47.4 U	23.7 U	23.7 U	237 U	2370 U	**155**	23.7 U	**310**	23.7 U	23.7 U	23.7 U
South Area	SA-E16-Q(2.5-3.0)-F	2.5-3	05-Mar-2010	9570 U	9570 U	9570 U	4780 U	9570 U	4780 U	9570 U	9570 U	9570 U	9570 U	9570 U	4780 U	4780 U	47800 U	478000 U	**50800**	4780 U	**19300**	**7220**	**4380 J**	4780 U
South Area	SA-E16-Q(3.0-3.5)-F	3-3.5	05-Mar-2010	97300 U	97300 U	97300 U	48600 U	97300 U	48600 U	97300 U	97300 U	97300 U	97300 U	97300 U	48600 U	48600 U	486000 U	4860000 U	**1830000**	48600 U	**281000**	**86600**	**232000**	48600 U
South Area	SA-E16-Q(3.5-4.0)-F	3.5-4	05-Mar-2010	492000 U	492000 U	492000 U	246000 U	492000 U	246000 U	492000 U	492000 U	492000 U	492000 U	492000 U	246000 U	246000 U	2460000 U	24600000 U	**18500000**	246000 U	**2460000**	**898000**	**2090000**	246000 U
South Area	SA-E16-Q-F	2	26-Jan-2010	4580 U	4580 U	4580 U	2290 U	4580 U	2290 U	4580 U	4580 U	4580 U	4580 U	4580 U	2290 U	2290 U	22900 U	229000 U	**74200**	2290 U	**20600**	**6190**	**6510**	2290 U
South Area	SA-E16-Q-F (10.0-11.0)	10.0-11.0	6/4/2010	479 U	479 U	479 U	239 U	479 U	239 U	479 U	479 U	479 U	479 U	479 U	239 U	239 U	2390 U	23900 U	**27200**	239 U	**3910**	**1710**	**2980**	239 U
South Area	SA-E16-Q-F (11.0-12.0)	11.0-12.0	6/4/2010	207 U	207 U	207 U	103 U	207 U	103 U	207 U	207 U	207 U	207 U	207 U	103 U	103 U	1030 U	10300 U	**6680**	103 U	**915**	**246**	**1080**	103 U
South Area	SA-E16-Q-F (12.0-13.0)	12.0-13.0	6/4/2010	2340 U	2340 U	2340 U	1170 U	2340 U	1170 U	2340 U	2340 U	2340 U	2340 U	2340 U	1170 U	1170 U	11700 U	117000 U	**64900**	1170 U	**8740**	**4130**	**8410**	1170 U
South Area	SA-E16-Q-F (8.0-9.0)	8.0-9.0	6/4/2010	461 U	461 U	461 U	230 U	461 U	230 U	461 U	461 U	461 U	461 U	461 U	230 U	230 U	2300 U	23000 U	**8490**	230 U	**1690**	**1740**	**1280**	230 U

TABLE 4-2 AOC-1 Soil Sampling Results

Soil Pesticide Data Summary - Southern Area (Rock Salt Warehouse)

Georgia Ports Authority, Bainbridge Terminal

		Proposed Site-Specific RRS Values (ug/kg):		*11,000*	*7,700*	*11,000*	*660*												*660*		*3,100*	*100*	*12,000*	
South Area	SA-E16-Q-F (9.0-10.0)	9.0-10.0	6/4/2010	485 U	485 U	485 U	242 U	485 U	242 U	485 U	485 U	485 U	485 U	485 U	242 U	242 U	2420 U	24200 U	**12700**	242 U	**1830**	**1320**	**2270**	242 U
South Area	SA-E16-Q-F(4.0-4.5)	4.0-4.5	21-Apr-2010	484000 U	484000 U	484000 U	242000 U	484000 U	242000 U	484000 U	484000 U	484000 U	484000 U	484000 U	242000 U	242000 U	2420000 U	24200000 U	**16,000,000**	242000 U	**1,970,000**	**1,230,000**	**3,200,000**	242000 U
South Area	SA-E16-Q-F(4.5-5.0)	4.5-5.0	21-Apr-2010	48900 U	48900 U	48900 U	24400 U	48900 U	24400 U	48900 U	48900 U	48900 U	48900 U	48900 U	24400 U	24400 U	244000 U	2440000 U	**2,200,000**	24400 U	**257,000**	**134,000**	**346,000**	24400 U
South Area	SA-E16-Q-F(5.0-6.0)	5.0-6.0	27-Apr-2010	47.6 U	47.6 U	47.6 U	23.8 U	47.6 U	23.8 U	47.6 U	47.6 U	47.6 U	47.6 U	47.6 U	23.8 U	23.8 U	238 U	2380 U	**981 J**	23.8 U	**302**	**6,400**	**1,450**	23.8 U
South Area	SA-E16-Q-F(6.0-7.0)	6.0-7.0	27-Apr-2010	46.4 U	46.4 U	46.4 U	23.2 U	46.4 U	23.2 U	46.4 U	46.4 U	46.4 U	46.4 U	46.4 U	23.2 U	23.2 U	232 U	2320 U	**576**	23.2 U	**151**	**500**	**173**	23.2 U
South Area	SA-E16-Q-F(7.0-8.0)	7.0-8.0	27-Apr-2010	231 U	231 U	231 U	115 U	231 U	115 U	231 U	231 U	231 U	231 U	231 U	115 U	115 U	1150 U	11500 U	**1,740**	115 U	**481**	**1,530**	**277**	115 U
South Area	SA-E16-Q-SW	0-2	26-Jan-2010	9500 U	9500 U	9500 U	4750 U	9500 U	4750 U	9500 U	9500 U	9500 U	9500 U	9500 U	4750 U	4750 U	47500 U	475000 U	**72700**	4750 U	**26200**	**5360**	**3340 J**	4750 U
South Area	SA-E16-R (2.5-3.0)	2.5-3	03-Mar-2010	95.3 U	95.3 U	95.3 U	47.7 U	95.3 U	47.7 U	95.3 U	95.3 U	95.3 U	95.3 U	95.3 U	47.7 U	47.7 U	477 U	4770 U	**635**	47.7 U	**1070**	**84.8**	**26.3 J**	47.7 U
South Area	SA-E16-R (3.0-3.5)	3-3.5	03-Mar-2010	237 U	237 U	237 U	119 U	237 U	119 U	237 U	237 U	237 U	237 U	237 U	119 U	119 U	1190 U	11900 U	**1790**	119 U	**787**	**119**	**179**	119 U
South Area	SA-E16-R-F	2	26-Jan-2010	370000 U	370000 U	370000 U	185000 U	370000 U	185000 U	370000 U	370000 U	370000 U	370000 U	370000 U	185000 U	185000 U	1850000 U	18500000 U	**1620000**	185000 U	**486000**	**126000 J**	**461000**	185000 U
South Area	SA-E16-R-F (5.0-6.0)	5.0-6.0	27-Apr-2010	230 U	230 U	230 U	115 U	230 U	115 U	230 U	230 U	230 U	230 U	230 U	115 U	115 U	1150 U	11500 U	**18,200**	115 U	**8,090**	**1,620**	**1730**	115 U
South Area	SA-E16-R-F (6.0-7.0)	6.0-7.0	27-Apr-2010	932 U	932 U	932 U	466 U	932 U	466 U	932 U	932 U	932 U	932 U	932 U	466 U	466 U	4660 U	46600 U	**4,740**	466 U	**4,150**	**924**	**110 J**	466 U
South Area	SA-E16-R-F (7.0-8.0)	7.0-8.0	27-Apr-2010	**75.7**	**54.5**	52.8 U	26.4 U	52.8 U	26.4 U	52.8 U	52.8 U	52.8 U	52.8 U	52.8 U	26.4 U	26.4 U	264 U	2640 U	**86.3**	26.4 U	**385**	**65.1**	**18.6 J**	26.4 U
South Area	SA-E16-R-F(3.5-4.0)	3.5-4.0	22-Apr-2010	44.4 U	**59.1**	44.4 U	22.2 U	44.4 U	22.2 U	44.4 U	44.4 U	44.4 U	44.4 U	44.4 U	22.2 U	22.2 U	222 U	2220 U	**175,000**	22.2 U	**79,000**	**15,600**	**18,800**	22.2 U
South Area	SA-E16-R-F(4.0-4.5)	4.0-4.5	22-Apr-2010	228 U	**91.5 J**	228 U	114 U	228 U	114 U	228 U	228 U	228 U	228 U	228 U	114 U	114 U	1140 U	11400 U	**70,600**	114 U	**22,200**	**6,850**	**2570**	114 U
South Area	SA-E16-R-F(4.5-5.0)	4.5-5.0	27-Apr-2010	459 U	**233 J**	459 U	229 U	459 U	229 U	459 U	459 U	459 U	459 U	459 U	229 U	229 U	2290 U	22900 U	**68,800 B**	229 U	**20,400 J**	**10,000 J**	**8,780 J**	229 U
South Area	SA-E16-R-SW	0-2	26-Jan-2010	46.4 U	46.4 U	46.4 U	23.2 U	46.4 U	23.2 U	46.4 U	46.4 U	46.4 U	46.4 U	46.4 U	23.2 U	23.2 U	232 U	2320 U	**139**	23.2 U	**197**	**8.19 J**	**10.3 J**	23.2 U
South Area	SA-E16-R-WW	0-2	26-Jan-2010	46300 U	46300 U	46300 U	23200 U	46300 U	23200 U	46300 U	46300 U	46300 U	46300 U	46300 U	23200 U	23200 U	232000 U	2320000 U	**208000**	23200 U	**31000 J**	23200 U	**8020 J**	23200 U
South Area	SA-E16-S-EW	0-2	26-Jan-2010	1800 U	1800 U	1800 U	899 U	1800 U	899 U	1800 U	1800 U	1800 U	1800 U	1800 U	899 U	899 U	8990 U	89900 U	**10500**	899 U	**7740**	899 U	**280 J**	899 U
South Area	SA-E16-S-F	2	26-Jan-2010	235 U	235 U	235 U	118 U	235 U	118 U	235 U	235 U	235 U	235 U	235 U	118 U	118 U	1180 U	11800 U	**116 J**	118 U	**1410**	118 U	118 U	118 U
South Area	SA-E16-T-F	2	26-Jan-2010	237 U	237 U	237 U	118 U	237 U	118 U	237 U	237 U	237 U	237 U	237 U	118 U	118 U	1180 U	11800 U	**1270**	118 U	**488**	118 U	**157**	118 U
South Area	SA-E16-T-F (3-4)	3.0-4.0	6/10/2010	45.5 U	45.5 U	45.5 U	22.8 U	45.5 U	22.8 U	45.5 U	45.5 U	45.5 U	45.5 U	45.5 U	22.8 U	22.8 U	228 U	2280 U	22.8 U	22.8 U	45.5 U	22.8 U	22.8 U	22.8 U
South Area	SA-E16-T-F (4-5)	4.0-5.0	6/10/2010	45.2 U	45.2 U	45.2 U	22.6 U	45.2 U	22.6 U	45.2 U	45.2 U	45.2 U	45.2 U	45.2 U	22.6 U	22.6 U	226 U	2260 U	22.6 U	22.6 U	45.2 U	22.6 U	22.6 U	22.6 U
South Area	SA-E16-T-F (5-6)	5.0-6.0	6/10/2010	45.6 U	45.6 U	45.6 U	22.8 U	45.6 U	22.8 U	45.6 U	45.6 U	45.6 U	45.6 U	45.6 U	22.8 U	22.8 U	228 U	2280 U	22.8 U	22.8 U	45.6 U	22.8 U	22.8 U	22.8 U
South Area	SA-E16-T-F (6-7)	6.0-7.0	6/10/2010	44.6 U	44.6 U	44.6 U	22.3 U	44.6 U	22.3 U	44.6 U	44.6 U	44.6 U	44.6 U	44.6 U	22.3 U	22.3 U	223 U	2230 U	22.3 U	22.3 U	44.6 U	22.3 U	22.3 U	22.3 U
South Area	SA-E16-T-SW	0-2	26-Jan-2010	1820 U	1820 U	1820 U	911 U	1820 U	911 U	1820 U	1820 U	1820 U	1820 U	1820 U	911 U	911 U	9110 U	91100 U	**23300**	911 U	**4600**	**287 J**	**872 J**	911 U
South Area	SA-E16-T-WW	0-2	26-Jan-2010	3590 U	3590 U	3590 U	1800 U	3590 U	1800 U	3590 U	3590 U	3590 U	3590 U	3590 U	1800 U	1800 U	18000 U	180000 U	**19300**	1800 U	**11300**	1800 U	**578 J**	1800 U
South Area	SA-E16-T-WW10(0-2)	0-2	10-Mar-2010	2190 U	2190 U	2190 U	1100 U	2190 U	1100 U	2190 U	2190 U	2190 U	2190 U	2190 U	1100 U	1100 U	11000 U	110000 U	**13400**	1100 U	**10400**	1100 U	**304 J**	1100 U
South Area	SA-E16-T-WW15(0-2)	0-2	10-Mar-2010	48.4 U	48.4 U	48.4 U	24.2 U	48.4 U	24.2 U	48.4 U	48.4 U	48.4 U	48.4 U	48.4 U	24.2 U	24.2 U	242 U	2420 U	24.2 U	24.2 U	48.4 U	24.2 U	24.2 U	24.2 U
South Area	SA-E16-T-WW5(0-2)	0-2	10-Mar-2010	501 U	501 U	501 U	250 U	501 U	250 U	501 U	501 U	501 U	501 U	501 U	250 U	250 U	2500 U	25000 U	**2270**	250 U	**1890**	250 U	**70.5 J**	250 U
South Area	SA-E16-T-WWF(2.5-3.0)	2.5-3	10-Mar-2010	48 U	48 U	48 U	24 U	48 U	24 U	48 U	48 U	48 U	48 U	48 U	24 U	24 U	240 U	2400 U	24 U	24 U	48 U	24 U	24 U	24 U
South Area	SA-E16-T-WWF(3.0-3.5)	3-3.5	10-Mar-2010	48.7 U	48.7 U	48.7 U	24.4 U	48.7 U	24.4 U	48.7 U	48.7 U	48.7 U	48.7 U	48.7 U	24.4 U	24.4 U	244 U	2440 U	24.4 U	24.4 U	48.7 U	24.4 U	24.4 U	24.4 U
South Area	SA-E16-U(2.5-3.0)-F	2.5-3	09-Mar-2010	93 U	93 U	93 U	46.5 U	93 U	46.5 U	93 U	93 U	93 U	93 U	93 U	46.5 U	46.5 U	465 U	4650 U	**521**	46.5 U	**119**	**32.8 J**	**79.4**	46.5 U
South Area	SA-E16-U(2.5-3.0)-F DUP	2.5-3	09-Mar-2010	2440 U	2440 U	2440 U	1220 U	2440 U	1220 U	2440 U	2440 U	2440 U	2440 U	2440 U	1220 U	1220 U	12200 U	122000 U	**15600**	1220 U	**3250**	**1010 J**	**2140**	1220 U
South Area	SA-E16-U-(3.0-3.5)	3-3.5	09-Mar-2010	475 U	475 U	475 U	237 U	475 U	237 U	475 U	475 U	475 U	475 U	475 U	237 U	237 U	2370 U	23700 U	**2630**	237 U	**585**	**526**	**349**	237 U
South Area	SA-E16-U-(3.0-3.5) DUP	3-3.5	09-Mar-2010	236 U	236 U	236 U	118 U	236 U	118 U	236 U	236 U	236 U	236 U	236 U	118 U	118 U	1180 U	11800 U	**1430**	118 U	**369**	**112 J**	**178**	118 U
South Area	SA-E16-U-EW	0-2	26-Jan-2010	1000 U	1000 U	1000 U	502 U	1000 U	502 U	1000 U	1000 U	1000 U	1000 U	1000 U	502 U	502 U	5020 U	50200 U	**22700**	502 U	**7640**	**3010**	**3480**	502 U
South Area	SA-E16-U-F	2	26-Jan-2010	98.8 U	98.8 U	98.8 U	49.4 U	98.8 U	49.4 U	98.8 U	98.8 U	98.8 U	98.8 U	98.8 U	49.4 U	49.4 U	494 U	4940 U	**719**	49.4 U	**595**	49.4 U	**33.6 J**	49.4 U
South Area	SA-E16-U-F(3.5-4.0)	3.5-4.0	22-Apr-2010	57.6 U	57.6 U	57.6 U	28.8 U	57.6 U	28.8 U	57.6 U	57.6 U	57.6 U	57.6 U	57.6 U	28.8 U	28.8 U	288 U	2880 U	**1110**	28.8 U	**427**	**65.8**	**145**	28.8 U
South Area	SA-E16-U-F(3.5-4.0)	3.5-4.0	27-Apr-2010	46.7 U	46.7 U	46.7 U	23.3 U	46.7 U	23.3 U	46.7 U	46.7 U	46.7 U	46.7 U	46.7 U	23.3 U	23.3 U	233 U	2330 U	**40.9**	23.3 U	**126**	**29.2**	23.3 U	23.3 U
South Area	SA-E16-U-F(4.0-4.5)	4.0-4.5	22-Apr-2010	49.5 U	49.5 U	49.5 U	24.7 U	49.5 U	24.7 U	49.5 U	49.5 U	49.5 U	49.5 U	49.5 U	24.7 U	24.7 U	247 U	2470 U	**4,130**	24.7 U	**1050**	**120**	**248**	24.7 U
South Area	SA-E16-U-F(4.0-4.5)	4.0-4.5	27-Apr-2010	47.4 U	47.4 U	47.4 U	23.7 U	47.4 U	23.7 U	47.4 U	47.4 U	47.4 U	47.4 U	47.4 U	23.7 U	23.7 U	237 U	2370 U	**20.5 J**	23.7 U	**28.2 J**	**10.5 J**	23.7 U	23.7 U
South Area	SA-E16-U-F(4.5-5.0)	4.5-5.0	27-Apr-2010	46.3 U	46.3 U	46.3 U	23.1 U	46.3 U	23.1 U	46.3 U	46.3 U	46.3 U	46.3 U	46.3 U	23.1 U	23.1 U	231 U	2310 U	**45.4**	23.1 U	**46.6**	**23.3**	23.1 U	23.1 U
South Area	SA-E16-U-F-D	2	26-Jan-2010	97.8 U	97.8 U	97.8 U	48.9 U	97.8 U	48.9 U	97.8 U	97.8 U	97.8 U	97.8 U	97.8 U	48.9 U	48.9 U	489 U	4890 U	**713**	48.9 U	**380**	**22.4 J**	**19 J**	48.9 U
South Area	SA-E16-V-(2.5-3.0)-F	2.5-3	02-Mar-2010	48.2 U	48.2 U	48.2 U	24.1 U	48.2 U	24.1 U	48.2 U	48.2 U	48.2 U	48.2 U	48.2 U	24.1 U	24.1 U	241 U	2410 U	**52**	24.1 U	**203**	**24.3**	**8.22 J**	24.1 U
South Area	SA-E16-V-(3.0-3.5)-F	3-3.5	02-Mar-2010	1860 U	1860 U	1860 U	932 U	1860 U	932 U	1860 U	1860 U	1860 U	1860 U	1860 U	932 U	932 U	9320 U	93200 U	**14100**	932 U	**7030**	**1070**	**821 J**	932 U
South Area	SA-E16-V-EW	0-2	27-Jan-2010	4500 U	4500 U	4500 U	2250 U	4500 U	2250 U	4500 U	4500 U	4500 U	4500 U	4500 U	2250 U	2250 U	22500 U	225000 U	**29300**	2250 U	**6760**	2250 U	**823 J**	2250 U
South Area	SA-E16-V-EW10 (4-6)	4.0-6.0	6/10/2010	20.9 J	**16 J**	**10.4 J**	24.5 U	49 U	24.5 U	49 U	49 U	49 U	49 U	49 U	24.5 U	24.5 U	245 U	2450 U	**121**	24.5 U	**533**	**29.2**	**23.4 J**	24.5 U
South Area	SA-E16-V-EW10 (6-8)	6.0-8.0	6/10/2010	4680 U	4680 U	4680 U	2340 U	4680 U	2340 U	4680 U	4680 U	4680 U	4680 U	4680 U	2340 U	2340 U	23400 U	234000 U	**1100000**	2340 U	**126000**	**11700**	**47000**	2340 U
South Area	SA-E16-V-EW10 (8-10)	8.0-10.0	6/10/2010	43.1 U	43.1 U	43.1 U	21.6 U	43.1 U	21.6 U	43.1 U	43.1 U	43.1 U	43.1 U	43.1 U	21.6 U	21.6 U	216 U	3920	21.6 U	**1370 J**	**2400**	**3380**	21.6 U	2340 U
South Area	SA-E16-V-EW10(0-2)	0-2	02-Mar-2010	48.5 U	48.5 U	48.5 U	24.2 U	48.5 U	24.2 U	48.5 U	48.5 U	48.5 U	48.5 U	48.5 U	24.2 U	24.2 U	242 U	2420 U	**110**	24.2 U	**234**	**7.27 J**	**8.25 J**	24.2 U
South Area	SA-E16-V-EW10(2.5-3.0)	2.5-3	08-Mar-2010	46.5 U	46.5 U	46.5 U	23.3 U	46.5 U	23.3 U	46.5 U	46.5 U	46.5 U	46.5 U	46.5 U	23.3 U	23.3 U	233 U	2330 U	**49.1**	23.3 U	**337**	**7.14 J**	**16.4 J**	23.3 U
South Area	SA-E16-V-EW10(3.0-3.5)	3-3.5	08-Mar-2010	46.8 U	46.8 U	46.8 U	23.4 U	46.8 U	23.4 U	46.8 U	46.8 U	46.8 U	46.8 U	46.8 U	23.4 U	23.4 U	234 U	2340 U	**28.9**	23.4 U	**249**	23.4 U	**15.4 J**	23.4 U
South Area	SA-E16-V-EW15(0-2)	0-2	02-Mar-2010	185 U	185 U	185 U	92.6 U	185 U	92.6 U	185 U	185 U	185 U	185 U	185 U	92.6 U	92.6 U	926 U	9260 U	**408**	92.6 U	**1280**	92.6 U	**31.5 J**	92.6 U
South Area	SA-E16-V-EW20 (10-12)	10.0-12.0	6/10/2010	46.1 U	46.1 U	46.1 U	23 U	46.1 U	23 U	46.1 U	46.1 U	46.1 U	46.1 U	46.1 U	23 U	23 U	230 U	2300 U	23 U	23 U	46.1 U	**5.49 J**	23 U	23 U
South Area	SA-E16-V-EW20 (12-14)	12.0-14.0	6/10/2010	4.76 U	4.76 U	4.76 U	2.38 U	4.76 U	2.38 U	4.76 U	4.76 U	4.76 U	4.76 U	4.76 U	2.38 U	2.38 U	23.8 U	238 U	**4.53**	2.38 U	**3.94 J**	**5.38**	**1.26 J**	2.38 U
South Area	SA-E16-V-EW20 (14-16)	14.0-16.0	6/10/2010	4.88 U	4.88 U	4.88 U	2.44 U	4.88 U	2.44 U	4.88 U	4.88 U	4.88 U	4.88 U	4.88 U	2.44 U	2.44 U	24.4 U	244 U	**2.7**	2.44 U	**2.12 J**	**3.48**	**0.944 J**	2.44 U
South Area	SA-E16-V-EW20 (4-6)	4.0-6.0	6/10/2010	42.4 U	**10.6 J**	**7.02 J**	21.2 U	42.4 U	21.2 U	42.4 U	42.4 U	42.4 U	42.4 U	42.4 U	21.2 U	21.2 U	212 U	2120 U	**16.2 J**	21.2 U	**215**	**28.7**	**106**	21.2 U
South Area	SA-E16-V-EW20 (6-8)	6.0-8.0	6/10/2010	43.6 U	43.6 U	7.58 J	21.8 U	43.6 U	21.8 U	43.6 U	43.6 U	43.6 U	43.6 U	43.6 U	21.8 U	21.8 U	218 U	2180 U	**527**	21.8 U	**340**	**208**	**121**	21.8 U
South Area	SA-E16-V-EW20 (8-10)	8.0-10.0	6/10/2010	44.7 U	44.7 U	44.7 U	22.3 U	44.7 U	22.3 U	44.7 U	44.7 U	44.7 U	44.7 U	44.7 U	22.3 U	22.3 U	223 U	2230 U	**505**	22.3 U	**157**	**493**	**67.3**	22.3 U
South Area	SA-E16-V-EW5(0-2)	0-2	02-Mar-2010	179 U	179 U	179 U	89.7 U	179 U	89.7 U	179 U	179 U	179 U	179 U	179 U	89.7 U	89.7 U	897 U	8970 U	**474**	89.7 U	**1310**	**45.2 J**	**51.9 J**	89.7 U
South Area	SA-E16-V-F	2	27-Jan-2010	448 U	448 U	448 U	224 U	448 U	224 U	448 U	448 U	448 U	448 U	448 U	224 U	224 U	2240 U	22400 U	**2250**	224 U	**2370**	**111 J**	**304**	224 U
South Area	SA-E16-V-F(10-11)	10.0-11.0	6/8/2010	4.87 U	4.87 U	4.87 U	2.43 U	4.87 U	2.43 U	4.87 U	4.87 U	4.87 U	4.87 U	4.87 U	2.43 U	2.43 U	24.3 U	243 U	**0.694 J**	2.43 U	**2.75 J**	2.43 U	2.43 U	2.43 U
South Area	SA-E16-V-F(11-12)	11.0-12.0	6/8/2010	4.86 U	4.86 U	4.86 U	2.43 U	4.86 U	2.43 U	4.86 U	4.86 U	4.86 U	4.86 U	4.86 U	2.43 U	2.43 U	24.3 U	243 U	**6.82**	2.43 U	**9.43**	**0.645 J**	**1.74 J**	2.43 U
South Area	SA-E16-V-F(12-13)	12.0-13.0	6/8/2010	4.67 U	4.67 U	4.67 U	2.33 U	4.67 U	2.33 U	4.67 U	4.67 U	4.67 U	4.67 U	4.67 U	2.33 U	2.33 U	23.3 U	233 U	**16.4**	2.33 U	**11.6**	**2.74**	**2.49**	2.33 U

TABLE 4-2 AOC-1 Soil Sampling Results

Soil Pesticide Data Summary - Southern Area (Rock Salt Warehouse)

Georgia Ports Authority, Bainbridge Terminal

		Proposed Site-Specific RRS Values (ug/kg):		*11,000*	*7,700*	*11,000*	*660*											*660*		*3,100*	*100*	*12,000*	
South Area	SA-E16-V-F(3.5-4.0)	3.5-4.0	27-Apr-2010	2280 U	2280 U	2280 U	1140 U	2280 U	1140 U	2280 U	2280 U	2280 U	2280 U	2280 U	1140 U	1140 U	11400 U	114000 U	**4,340 B**	1140 U	**12,600**	**845 J**	**407 J**	1140 U
South Area	SA-E16-V-F(4.0-4.5)	4.0-4.5	27-Apr-2010	4520 U	4520 U	4520 U	2260 U	4520 U	2260 U	4520 U	4520 U	4520 U	4520 U	4520 U	2260 U	2260 U	22600 U	226000 U	**24,000 B**	2260 U	**12,600**	2,260 U	**986 J**	2260 U
South Area	SA-E16-V-F(4.5-5.0)	4.5-5.0	27-Apr-2010	895 U	895 U	895 U	448 U	895 U	448 U	895 U	895 U	895 U	895 U	895 U	448 U	448 U	4480 U	44800 U	**2,830 B**	448 U	**3,970**	**330 J**	**86.8 J**	448 U
South Area	SA-E16-V-F(5.0-6.0)	5.0-6.0	27-Apr-2010	458 U	458 U	458 U	229 U	458 U	229 U	458 U	458 U	458 U	458 U	458 U	229 U	229 U	2290 U	22900 U	**15,100**	229 U	**3,020**	**360**	**316**	229 U
South Area	SA-E16-V-F(6.0-7.0)	6.0-7.0	27-Apr-2010	**114 J**	229 U	229 U	114 U	229 U	114 U	229 U	229 U	229 U	229 U	229 U	114 U	114 U	1140 U	11400 U	**1500**	114 U	**1270**	**150**	**46 J**	114 U
South Area	SA-E16-V-F(7-8)	7.0-8.0	27-Apr-2010	**36.9 J**	223 U	223 U	112 U	223 U	112 U	223 U	223 U	223 U	223 U	223 U	112 U	112 U	1120 U	11200 U	**1230**	112 U	**648**	**279**	**68.1 J**	112 U
South Area	SA-E16-V-F(9-10)	9.0-10.0	6/8/2010	44.6 U	44.6 U	44.6 U	22.3 U	44.6 U	22.3 U	44.6 U	44.6 U	44.6 U	44.6 U	44.6 U	22.3 U	22.3 U	223 U	2230 U	**184**	22.3 U	**44.4 J**	**25.8**	**81.1**	22.3 U
South Area	SA-E16-V-WW	0-2	27-Jan-2010	460 U	460 U	460 U	230 U	460 U	230 U	460 U	460 U	460 U	460 U	460 U	230 U	230 U	2300 U	23000 U	**14900**	230 U	**6670**	**352**	**619**	230 U
South Area	SA-E16-V-WW10 (6-7)	6.0-7.0	6/8/2010	4.79 U	4.79 U	4.79 U	2.4 U	4.79 U	2.4 U	4.79 U	4.79 U	4.79 U	4.79 U	4.79 U	2.4 U	2.4 U	24 U	240 U	**4.51**	2.4 U	**34.5**	**5.87**	**2.25 J**	2.4 U
South Area	SA-E16-V-WW10 (7-8)	7.0-8.0	6/8/2010	48.7 U	48.7 U	48.7 U	24.3 U	48.7 U	24.3 U	48.7 U	48.7 U	48.7 U	48.7 U	48.7 U	24.3 U	24.3 U	243 U	2430 U	**87.6**	24.3 U	**94.3**	**96.5**	**32.9**	24.3 U
South Area	SA-E16-V-WW10 (8-9)	8.0-9.0	6/8/2010	4.85 U	4.85 U	4.85 U	2.43 U	4.85 U	2.43 U	4.85 U	4.85 U	4.85 U	4.85 U	4.85 U	2.43 U	2.43 U	24.3 U	243 U	**35.5**	2.43 U	**25.9**	**11.5**	2.43 U	2.4 U
South Area	SA-E16-V-WW10 (9-10)	9.0-10.0	6/8/2010	48.4 U	48.4 U	48.4 U	24.2 U	48.4 U	24.2 U	48.4 U	48.4 U	48.4 U	48.4 U	48.4 U	24.2 U	24.2 U	242 U	2420 U	**1880**	24.2 U	**328**	**74.3**	**67.2**	24.2 U
South Area	SA-E16-V-WW10(0-2)	0-2	02-Mar-2010	22400 U	22400 U	22400 U	11200 U	22400 U	11200 U	22400 U	22400 U	22400 U	22400 U	22400 U	11200 U	11200 U	112000 U	1120000 U	**296000**	11200 U	**50000**	**2580 J**	**8350 J**	11200 U
South Area	SA-E16-V-WW10(2.5-3.0)	2.5-3	08-Mar-2010	232 U	232 U	232 U	116 U	232 U	116 U	232 U	232 U	232 U	232 U	232 U	116 U	116 U	1160 U	11600 U	**742**	116 U	**1820**	116 U	**90.7 J**	116 U
South Area	SA-E16-V-WW10(3.0-3.5)	3-3.5	08-Mar-2010	9480 U	9480 U	9480 U	4740 U	9480 U	4740 U	9480 U	9480 U	9480 U	9480 U	9480 U	4740 U	4740 U	47400 U	474000 U	**62200**	4740 U	**16800**	4740 U	**2400 J**	4740 U
South Area	SA-E16-V-WW10(3.5-4.0)	3.5-4.0	29-Apr-2010	90.7 U	90.7 U	90.7 U	45.3 U	90.7 U	45.3 U	90.7 U	90.7 U	90.7 U	90.7 U	90.7 U	45.3 U	45.3 U	453 U	4530 U	**637**	45.3 U	**739**	**273**	**94.4**	45.3 U
South Area	SA-E16-V-WW10(4.0-4.5)	4.0-4.5	29-Apr-2010	4430 U	4430 U	4430 U	2220 U	4430 U	2220 U	4430 U	4430 U	4430 U	4430 U	4430 U	2220 U	2220 U	22200 U	222000 U	**176,000**	2220 U	**22,000**	**2,540**	**16,400**	2220 U
South Area	SA-E16-V-WW10(4.5-5.0)	4.5-5.0	29-Apr-2010	2420 U	2420 U	2420 U	1210 U	2420 U	1210 U	2420 U	2420 U	2420 U	2420 U	2420 U	1210 U	1210 U	12100 U	121000 U	**11,600**	1210 U	**11,600**	**1,340**	**542 J**	1210 U
South Area	SA-E16-V-WW15(0-2)	0-2	02-Mar-2010	46.1 U	46.1 U	46.1 U	23 U	46.1 U	23 U	46.1 U	46.1 U	46.1 U	46.1 U	46.1 U	23 U	23 U	230 U	2300 U	**10.8 J**	23 U	46.1 U	23 U	23 U	23 U
South Area	SA-E16-V-WW15(3.5-4.0)	3.5-4.0	29-Apr-2010	497 U	497 U	497 U	248 U	497 U	248 U	497 U	497 U	497 U	497 U	497 U	248 U	248 U	2480 U	24800 U	**12,200**	248 U	**3680**	**466**	**404**	248 U
South Area	SA-E16-V-WW15(4.0-4.5)	4.0-4.5	29-Apr-2010	494 U	494 U	494 U	247 U	494 U	247 U	494 U	494 U	494 U	494 U	494 U	247 U	247 U	2470 U	24700 U	**3,140**	247 U	**2,370**	**388**	**168 J**	247 U
South Area	SA-E16-V-WW15(4.5-5.0)	4.5-5.0	29-Apr-2010	261 U	261 U	261 U	131 U	261 U	131 U	261 U	261 U	261 U	261 U	261 U	131 U	131 U	1310 U	13100 U	**892**	131 U	**1,260**	**130 J**	**43.9 J**	131 U
South Area	SA-E16-V-WW15(6-7)	6.0-7.0	6/8/2010	4.78 U	4.78 U	4.78 U	2.39 U	4.78 U	2.39 U	4.78 U	4.78 U	4.78 U	4.78 U	4.78 U	2.39 U	2.39 U	23.9 U	239 U	2.39 U	2.39 U	**7.75**	**1.45 J**	**0.788 J**	2.39 U
South Area	SA-E16-V-WW15(7-8)	7.0-8.0	6/8/2010	4.77 U	4.77 U	4.77 U	2.39 U	4.77 U	2.39 U	4.77 U	4.77 U	4.77 U	4.77 U	4.77 U	2.39 U	2.39 U	23.9 U	239 U	2.39 U	2.39 U	4.77 U	2.39 U	2.39 U	2.39 U
South Area	SA-E16-V-WW15(8-9)	8.0-9.0	6/8/2010	4.78 U	4.78 U	4.78 U	2.39 U	4.78 U	2.39 U	4.78 U	4.78 U	4.78 U	4.78 U	4.78 U	2.39 U	2.39 U	23.9 U	239 U	**9.16**	2.39 U	**14.1**	**16.9**	2.39 U	2.39 U
South Area	SA-E16-V-WW15(9-10)	9.0-10.0	6/8/2010	46.6 U	46.6 U	46.6 U	23.3 U	46.6 U	23.3 U	46.6 U	46.6 U	46.6 U	46.6 U	46.6 U	23.3 U	23.3 U	233 U	2330 U	**293**	23.3 U	**84.9**	**47.2**	**12.9 J**	23.3 U
South Area	SA-E16-V-WW20(2.5-3.0)	2.5-3.0	29-Apr-2010	225 U	225 U	225 U	112 U	225 U	112 U	225 U	225 U	225 U	225 U	225 U	112 U	112 U	1120 U	11200 U	**1,630**	112 U	**1190**	**269**	**148**	112 U
South Area	SA-E16-V-WW20(3.0-3.5)	3.0-3.5	29-Apr-2010	449 U	449 U	449 U	225 U	449 U	225 U	449 U	449 U	449 U	449 U	449 U	225 U	225 U	2250 U	22500 U	**1,090**	225 U	**1,880**	**96.6 J**	**72.9 J**	225 U
South Area	SA-E16-V-WW20(3.5-4.0)	3.5-4.0	29-Apr-2010	4530 U	4530 U	4530 U	2270 U	4530 U	2270 U	4530 U	4530 U	4530 U	4530 U	4530 U	2270 U	2270 U	22700 U	227000 U	**35,600**	2270 U	**7,470**	**696 J**	**2200 J**	2270 U
South Area	SA-E16-V-WW20(5-6)	5.0-6.0	6/8/2010	4.8 U	4.8 U	4.8 U	2.4 U	4.8 U	2.4 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	2.4 U	2.4 U	24 U	240 U	**4.4**	2.4 U	**18.1**	**2.41**	2.4 U	2.4 U
South Area	SA-E16-V-WW20(6-7)	6.0-7.0	6/8/2010	48.2 U	48.2 U	48.2 U	24.1 U	48.2 U	24.1 U	48.2 U	48.2 U	48.2 U	48.2 U	48.2 U	24.1 U	24.1 U	241 U	2410 U	24.1 U	24.1 U	**13.5 J**	**5.78 J**	24.1 U	24.1 U
South Area	SA-E16-V-WW20(7-8)	7.0-8.0	6/8/2010	4.87 U	4.87 U	4.87 U	2.43 U	4.87 U	2.43 U	4.87 U	4.87 U	4.87 U	4.87 U	4.87 U	2.43 U	2.43 U	24.3 U	243 U	**0.519 J**	2.43 U	**7.45**	**1.85 J**	2.43 U	2.43 U
South Area	SA-E16-V-WW20(8-9)	8.0-9.0	6/8/2010	4.61 U	4.61 U	4.61 U	2.3 U	4.61 U	2.3 U	4.61 U	4.61 U	4.61 U	4.61 U	4.61 U	2.3 U	2.3 U	23 U	230 U	**0.814 J**	2.3 U	**5.34**	**1.05 J**	2.3 U	2.3 U
South Area	SA-E16-V-WW25(2.5-3.0)	2.5-3.0	29-Apr-2010	582 U	582 U	582 U	291 U	582 U	291 U	582 U	582 U	582 U	582 U	582 U	291 U	291 U	2910 U	29100 U	**3,130**	291 U	**1240**	**407**	**91.9 J**	291 U
South Area	SA-E16-V-WW25(3.0-3.5)	3.0-3.5	29-Apr-2010	2180 U	2180 U	2180 U	1090 U	2180 U	1090 U	2180 U	2180 U	2180 U	2180 U	2180 U	1090 U	1090 U	10900 U	109000 U	**49,000**	1090 U	**14,200**	**2,740**	**3760**	1090 U
South Area	SA-E16-V-WW25(3.5-4.0)	3.5-4.0	29-Apr-2010	232000 U	232000 U	232000 U	116000 U	232000 U	116000 U	232000 U	232000 U	232000 U	232000 U	232000 U	116000 U	116000 U	1160000 U	11600000 U	**17,200,000**	116000 U	**1230000**	**384000**	**497000**	116000 U
South Area	SA-E16-V-WW25(5-6)	5.0-6.0	6/8/2010	49.8 U	49.8 U	49.8 U	24.9 U	49.8 U	24.9 U	49.8 U	49.8 U	49.8 U	49.8 U	49.8 U	24.9 U	24.9 U	249 U	2490 U	**63.6**	24.9 U	**39.8 J**	**77.2**	**12 J**	24.9 U
South Area	SA-E16-V-WW25(6-7)	6.0-7.0	6/8/2010	49 U	49 U	49 U	24.5 U	49 U	24.5 U	49 U	49 U	49 U	49 U	49 U	24.5 U	24.5 U	245 U	2450 U	**72.1**	24.5 U	**21.9 J**	**33.2**	**12.5 J**	24.5 U
South Area	SA-E16-V-WW25(7-8)	7.0-8.0	6/8/2010	4.9 U	4.9 U	4.9 U	2.45 U	4.9 U	2.45 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	2.45 U	2.45 U	24.5 U	245 U	2.45 U	2.45 U	**13.5**	**24.5**	**6.88**	2.45 U
South Area	SA-E16-V-WW25(8-9)	8.0-9.0	6/8/2010	4.85 U	4.85 U	4.85 U	2.42 U	4.85 U	2.42 U	4.85 U	4.85 U	4.85 U	4.85 U	4.85 U	2.42 U	2.42 U	24.2 U	242 U	**10.9**	2.42 U	**9.63**	**25.5**	**2.01 J**	2.42 U
South Area	SA-E16-V-WW30(2.5-3.0)	2.5-3.0	29-Apr-2010	457 U	457 U	457 U	228 U	457 U	228 U	457 U	457 U	457 U	457 U	457 U	228 U	228 U	2280 U	22800 U	**703**	228 U	**3120**	**74.2 J**	**48.2 J**	228 U
South Area	SA-E16-V-WW30(3.0-3.5)	3.0-3.5	29-Apr-2010	224 U	224 U	224 U	112 U	224 U	112 U	224 U	224 U	224 U	224 U	224 U	112 U	112 U	1120 U	11200 U	**1,130**	112 U	**1590**	**366**	**54.1 J**	112 U
South Area	SA-E16-V-WW30(3.5-4.0)	3.5-4.0	29-Apr-2010	91200 U	91200 U	91200 U	45600 U	91200 U	45600 U	91200 U	91200 U	91200 U	91200 U	91200 U	45600 U	45600 U	456000 U	4560000 U	**3,300,000**	45600 U	**431,000**	**115,000**	**501,000**	45600 U
South Area	SA-E16-V-WW30(5-6)	5.0-6.0	6/8/2010	48.6 U	48.6 U	48.6 U	24.3 U	48.6 U	24.3 U	48.6 U	48.6 U	48.6 U	48.6 U	48.6 U	24.3 U	24.3 U	243 U	2430 U	**202**	24.3 U	**105**	**96.2**	**16.7 J**	24.3 U
South Area	SA-E16-V-WW30(6-7)	6.0-7.0	6/8/2010	48.1 U	48.1 U	48.1 U	24 U	48.1 U	24 U	48.1 U	48.1 U	48.1 U	48.1 U	48.1 U	24 U	24 U	240 U	2400 U	**48 J**	24 U	481 U	**112**	**82.3**	24 U
South Area	SA-E16-V-WW30(7-8)	7.0-8.0	6/8/2010	48.4 U	48.4 U	48.4 U	24.2 U	48.4 U	24.2 U	48.4 U	48.4 U	48.4 U	48.4 U	48.4 U	24.2 U	24.2 U	242 U	2420 U	**232**	24.2 U	**80.1**	**121**	**17.3 J**	24.2 U
South Area	SA-E16-V-WW30(8-9)	8.0-9.0	6/8/2010	47.5 U	47.5 U	47.5 U	23.7 U	47.5 U	23.7 U	47.5 U	47.5 U	47.5 U	47.5 U	47.5 U	23.7 U	23.7 U	237 U	2370 U	**71**	23.7 U	**64.5**	**76.5**	**8.01 J**	23.7 U
South Area	SA-E16-V-WW35 (2-4)	2.0-4.0	6/9/2010	4290 U	**1530 J**	4290 U	2140 U	4290 U	2140 U	4290 U	4290 U	4290 U	4290 U	4290 U	2140 U	2140 U	21400 U	214000 U	**52900**	2140 U	**302000**	**98600**	**4100**	2140 U
South Area	SA-E16-V-WW35 (4-6)	4.0-6.0	6/9/2010	45.4 U	45.4 U	45.4 U	22.7 U	45.4 U	22.7 U	45.4 U	45.4 U	45.4 U	45.4 U	45.4 U	22.7 U	22.7 U	227 U	2270 U	**51.6**	22.7 U	**198**	**183**	**16.9 J**	22.7 U
South Area	SA-E16-V-WW35 (6-8)	6.0-8.0	6/9/2010	41.2 U	41.2 U	41.2 U	20.6 U	41.2 U	20.6 U	41.2 U	41.2 U	41.2 U	41.2 U	41.2 U	20.6 U	20.6 U	206 U	2060 U	**5.63 J**	20.6 U	**20.6 U**	**20.6 U**	**20.6 U**	20.6 U
South Area	SA-E16-V-WW35 (8-10)	8.0-10.0	6/9/2010	42.2 U	42.2 U	42.2 U	21.1 U	42.2 U	21.1 U	42.2 U	42.2 U	42.2 U	42.2 U	42.2 U	21.1 U	21.1 U	211 U	2110 U	21.1 U	21.1 U	42.2 U	21.1 U	21.1 U	21.1 U
South Area	SA-E16-V-WW40 (2-4)	2.0-4.0	6/9/2010	45 U	45 U	45 U	22.5 U	45 U	22.5 U	45 U	45 U	45 U	45 U	45 U	22.5 U	22.5 U	225 U	2250 U	**12.5 J**	22.5 U	**25.9 J**	**28.1**	**18.3 J**	22.5 U
South Area	SA-E16-V-WW40 (4-6)	4.0-6.0	6/9/2010	41.3 U	41.3 U	41.3 U	20.6 U	41.3 U	20.6 U	41.3 U	41.3 U	41.3 U	41.3 U	41.3 U	20.6 U	20.6 U	206 U	2060 U	**13.6 J**	20.6 U	**70**	**78.6**	**22.2**	20.6 U
South Area	SA-E16-V-WW40 (6-8)	6.0-8.0	6/9/2010	43.1 U	43.1 U	43.1 U	21.5 U	43.1 U	21.5 U	43.1 U	43.1 U	43.1 U	43.1 U	43.1 U	21.5 U	21.5 U	215 U	2150 U	**37.3**	21.5 U	**68.8**	**55.7**	**30.1**	21.5 U
South Area	SA-E16-V-WW40 (8-10)	8.0-10.0	6/9/2010	41 U	41 U	41 U	20.5 U	41 U	20.5 U	41 U	41 U	41 U	41 U	41 U	20.5 U	20.5 U	205 U	2050 U	**94**	20.5 U	**73.8**	**76**	**30.9**	20.5 U
South Area	SA-E16-V-WW45(2-4)	2.0-4.0	6/10/2010	45.5 U	45.5 U	45.5 U	22.7 U	45.5 U	22.7 U	45.5 U	45.5 U	45.5 U	45.5 U	45.5 U	22.7 U	22.7 U	227 U	2270 U	**17.4 J**	22.7 U	**9.89 J**	22.7 U	**5.45 J**	22.7 U
South Area	SA-E16-V-WW45(4-6)	4.0-6.0	6/10/2010	47.2 U	47.2 U	47.2 U	23.6 U	47.2 U	23.6 U	47.2 U	47.2 U	47.2 U	47.2 U	47.2 U	23.6 U	23.6 U	236 U	2360 U	23.6 U	23.6 U	47.2 U	23.6 U	23.6 U	23.6 U
South Area	SA-E16-V-WW45(6-8)	6.0-8.0	6/10/2010	48.4 U	48.4 U	48.4 U	24.2 U	48.4 U	24.2 U	48.4 U	48.4 U	48.4 U	48.4 U	48.4 U	24.2 U	24.2 U	242 U	2420 U	24.2 U	24.2 U	48.4 U	24.2 U	24.2 U	24.2 U
South Area	SA-E16-V-WW45(8-10)	8.0-10.0	6/10/2010	47.5 U	47.5 U	47.5 U	23.8 U	47.5 U	23.8 U	47.5 U	47.5 U	47.5 U	47.5 U	47.5 U	23.8 U	23.8 U	238 U	2380 U	23.8 U	23.8 U	47.5 U	23.8 U	23.8 U	23.8 U
South Area	SA-E16-V-WW5 (6-7)	6.0-7.0	6/8/2010	44.9 U	44.9 U	44.9 U	22.5 U	44.9 U	22.5 U	44.9 U	44.9 U	44.9 U	44.9 U	44.9 U	22.5 U	22.5 U	225 U	2250 U	**22.8**	22.5 U	**45.9**	**18 J**	**4.16 J**	22.5 U
South Area	SA-E16-V-WW5 (7-8)	7.0-8.0	6/8/2010	46.8 U	46.8 U	46.8 U	23.4 U	46.8 U	23.4 U	46.8 U	46.8 U	46.8 U	46.8 U	46.8 U	23.4 U	23.4 U	234 U	2340 U	**114**	23.4 U	**177**	**198**	**29.9**	23.4 U
South Area	SA-E16-V-WW5 (8-9)	8.0-9.0	6/8/2010	4.94 U	4.94 U	4.94 U	2.47 U	4.94 U	2.47 U	4.94 U	4.94 U	4.94 U	4.94 U	4.94 U	2.47 U	2.47 U	24.7 U	247 U	**2.22 J**	2.47 U	**4.09 J**	**2.48**	2.47 U	2.47 U
South Area	SA-E16-V-WW5 (9-10)	9.0-10.0	6/8/2010	4.5 U	4.5 U	4.5 U	2.25 U	4.5 U	2.25 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	2.25 U	2.25 U	22.5 U	225 U	2.25 U	2.25 U	4.5 U	2.25 U	2.25 U	2.25 U
South Area	SA-E16-V-WW5(0-2)	0-2	02-Mar-2010	47.6 U	47.6 U	47.6 U	23.8 U	47.6 U	23.8 U	47.6 U	47.6 U	47.6 U	47.6 U	47.6 U	23.8 U	23.8 U	238 U	2380 U	**16.9 J**	23.8 U	**70**	23.8 U	23.8 U	23.8 U
South Area	SA-E16-V-WW5(3.5-4.0)	3.5-4.0	29-Apr-2010	2280 U	2280 U	2280 U	1140 U	2280 U	1140 U	2280 U	2280 U	2280 U	2280 U	2280 U	1140 U	1140 U	11400 U	114000 U	**297,000**	1140 U	**23,600**	**4,670**	**8030**	1140 U

TABLE 4-2 AOC-1 Soil Sampling Results

Soil Pesticide Data Summary - Southern Area (Rock Salt Warehouse)

Georgia Ports Authority, Bainbridge Terminal

		Proposed Site-Specific RRS Values (ug/kg):		*11,000*	*7,700*	*11,000*	*660*												*660*		*3,100*	*100*	*12,000*	
South Area	SA-E16-V-WW5(4.0-4.5)	4.0-4.5	29-Apr-2010	2350 U	2350 U	2350 U	1180 U	2350 U	1180 U	2350 U	2350 U	2350 U	2350 U	2350 U	1180 U	1180 U	11800 U	118000 U	**23,600**	1180 U	**17700**	**2110**	**1430**	1180 U
South Area	SA-E16-V-WW5(4.5-5.0)	4.5-5.0	29-Apr-2010	4430 U	4430 U	4430 U	2210 U	4430 U	2210 U	4430 U	4430 U	4430 U	4430 U	4430 U	2210 U	2210 U	22100 U	221000 U	**225,000**	2210 U	**32,600**	**5,840**	**8,770**	2210 U
South Area	SA-E16-V-WW50 (3-4)	3.0-4.0	6/10/2010	46.7 U	**7.26 J**	**19.1 J**	23.3 U	46.7 U	23.3 U	46.7 U	46.7 U	46.7 U	46.7 U	46.7 U	23.3 U	23.3 U	233 U	2330 U	**12.6 J**	23.3 U	**163**	23.3 U	**4.58 J**	23.3 U
South Area	SA-E16-V-WW50 (4-5)	4.0-5.0	6/10/2010	47.1 U	47.1 U	47.1 U	23.6 U	47.1 U	23.6 U	47.1 U	47.1 U	47.1 U	47.1 U	47.1 U	23.6 U	23.6 U	236 U	2360 U	23.6 U	23.6 U	**30.2 J**	23.6 U	23.6 U	23.6 U
South Area	SA-E16-V-WW50 (5-6)	5.0-6.0	6/10/2010	46.5 U	46.5 U	**5.82 J**	23.3 U	46.5 U	23.3 U	46.5 U	46.5 U	46.5 U	46.5 U	46.5 U	23.3 U	23.3 U	233 U	2330 U	23.3 U	23.3 U	**35.8 J**	23.3 U	23.3 U	23.3 U
South Area	SA-E16-V-WW50 (6-7)	6.0-7.0	6/10/2010	46.3 U	46.3 U	46.3 U	23.2 U	46.3 U	23.2 U	46.3 U	46.3 U	46.3 U	46.3 U	46.3 U	23.2 U	23.2 U	232 U	2320 U	23.2 U	23.2 U	**24.9 J**	23.2 U	23.2 U	23.2 U
South Area	SA-E16-W-EW	0-2	26-Jan-2010	24.1 U	24.1 U	24.1 U	12.1 U	24.1 U	12.1 U	24.1 U	24.1 U	24.1 U	24.1 U	24.1 U	12.1 U	12.1 U	121 U	1210 U	12.1 U	12.1 U	**22 J**	12.1 U	12.1 U	12.1 U
South Area	SA-E16-W-F	2	26-Jan-2010	4.8 U	4.8 U	4.8 U	2.4 U	4.8 U	2.4 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	2.4 U	2.4 U	24 U	240 U	2.4 U	2.4 U	**1.45 J**	2.4 U	2.4 U	2.4 U
South Area	SA-E16-W-SW	0-2	26-Jan-2010	24 U	**4.44 J**	**5.43 J**	12 U	24 U	12 U	24 U	24 U	24 U	24 U	24 U	12 U	12 U	120 U	1200 U	12 U	12 U	**5.65 J**	12 U	12 U	12 U
South Area	SA-E16-W-WW	0-2	26-Jan-2010	24.2 U	**4.5 J**	**5.64 J**	12.1 U	24.2 U	12.1 U	24.2 U	24.2 U	24.2 U	24.2 U	24.2 U	12.1 U	12.1 U	121 U	1210 U	12.1 U	12.1 U	**46.3**	12.1 U	12.1 U	12.1 U
South Area	SA-E16-X(2.5-3.0)-F	2.5-3	02-Mar-2010	2250 U	2250 U	2250 U	1130 U	2250 U	1130 U	2250 U	2250 U	2250 U	2250 U	2250 U	1130 U	1130 U	11300 U	113000 U	**18100**	1130 U	**13000**	**475 J**	**651 J**	1130 U
South Area	SA-E16-X-(3.0-3.5)-F	3-3.5	02-Mar-2010	1850 U	1850 U	1850 U	924 U	1850 U	924 U	1850 U	1850 U	1850 U	1850 U	1850 U	924 U	924 U	9240 U	92400 U	**5600**	924 U	**10000**	**548 J**	**257 J**	924 U
South Area	SA-E16-X-EW	0-2	27-Jan-2010	22800 U	22800 U	22800 U	11400 U	22800 U	11400 U	22800 U	22800 U	22800 U	22800 U	22800 U	11400 U	11400 U	114000 U	1140000 U	**701000**	11400 U	**90800**	**35600**	**51700**	11400 U
South Area	SA-E16-X-EW10 (4-6)	4.0-6.0	6/10/2010	**4.39 J**	**5.21 J**	42.1 U	21.1 U	42.1 U	21.1 U	42.1 U	42.1 U	42.1 U	42.1 U	42.1 U	21.1 U	21.1 U	211 U	2110 U	**25.4**	21.1 U	**362**	**7.88 J**	**5.27 J**	21.1 U
South Area	SA-E16-X-EW10 (6-8)	6.0-8.0	6/10/2010	**9.51 J**	**22.4 J**	**10 J**	21.2 U	42.5 U	21.2 U	42.5 U	42.5 U	42.5 U	42.5 U	42.5 U	21.2 U	21.2 U	212 U	2120 U	**12.3 J**	21.2 U	**55.6**	21.2 U	21.2 U	21.2 U
South Area	SA-E16-X-EW10 (8-10)	8.0-10.0	6/10/2010	42.6 U	42.6 U	**7.91 J**	21.3 U	42.6 U	21.3 U	42.6 U	42.6 U	42.6 U	42.6 U	42.6 U	21.3 U	21.3 U	213 U	2130 U	**59.7**	21.3 U	**1370**	**24.5**	**11.7 J**	21.3 U
South Area	SA-E16-X-EW20 (10-12)	10.0-12.0	6/10/2010	48.4 U	48.4 U	48.4 U	24.2 U	48.4 U	24.2 U	48.4 U	48.4 U	48.4 U	48.4 U	48.4 U	24.2 U	24.2 U	242 U	2420 U	**367**	24.2 U	**88.9**	**16 J**	**10.5 J**	24.2 U
South Area	SA-E16-X-EW20 (12-14)	12.0-14.0	6/10/2010	46.5 U	46.5 U	46.5 U	23.2 U	46.5 U	23.2 U	46.5 U	46.5 U	46.5 U	46.5 U	46.5 U	23.2 U	23.2 U	232 U	2320 U	23.2 U	23.2 U	46.5 U	23.2 U	23.2 U	23.2 U
South Area	SA-E16-X-EW20 (14-16)	14.0-16.0	6/10/2010	47 U	47 U	47 U	23.5 U	47 U	23.5 U	47 U	47 U	47 U	47 U	47 U	23.5 U	23.5 U	235 U	2350 U	23.5 U	23.5 U	47 U	23.5 U	23.5 U	23.5 U
South Area	SA-E16-X-EW20 (4-6)	4.0-6.0	6/10/2010	9.26 J	8.45 J	20.1 J	23.2 U	46.3 U	23.2 U	46.3 U	46.3 U	46.3 U	46.3 U	46.3 U	23.2 U	23.2 U	232 U	2320 U	**46.3**	23.2 U	**491**	**17.8 J**	**12.7 J**	23.2 U
South Area	SA-E16-X-EW20 (6-8)	6.0-8.0	6/10/2010	411 U	411 U	411 U	206 U	411 U	206 U	411 U	411 U	411 U	411 U	411 U	206 U	206 U	2060 U	20600 U	**49500**	206 U	**31600 J**	**516**	**1030**	206 U
South Area	SA-E16-X-EW20 (8-10)	8.0-10.0	6/10/2010	40600 U	40600 U	40600 U	20300 U	40600 U	20300 U	40600 U	40600 U	40600 U	40600 U	40600 U	20300 U	20300 U	203000 U	2030000 U	**4680000**	20300 U	**645000 J**	**122000**	**1020000**	20300 U
South Area	SA-E16-X-F	2	27-Jan-2010	448 U	448 U	448 U	224 U	448 U	224 U	448 U	448 U	448 U	448 U	448 U	224 U	224 U	2240 U	22400 U	**3520**	224 U	**3740**	**102 J**	**113 J**	224 U
South Area	SA-E16-X-F (10-11)	10.0-11.0	6/9/2010	4.71 U	4.71 U	4.71 U	2.36 U	4.71 U	2.36 U	4.71 U	4.71 U	4.71 U	4.71 U	4.71 U	2.36 U	2.36 U	23.6 U	236 U	2.36 U	2.36 U	**2.06 J**	**11.7**	2.36 U	2.36 U
South Area	SA-E16-X-F (11-12)	11.0-12.0	6/9/2010	4.67 U	4.67 U	4.67 U	2.33 U	4.67 U	2.33 U	4.67 U	4.67 U	4.67 U	4.67 U	4.67 U	2.33 U	2.33 U	23.3 U	233 U	**22.1**	2.33 U	**14.2**	**9.5**	**0.965 J**	2.33 U
South Area	SA-E16-X-F (12-13)	12.0-13.0	6/9/2010	4.77 U	4.77 U	4.77 U	2.39 U	4.77 U	2.39 U	4.77 U	4.77 U	4.77 U	4.77 U	4.77 U	2.39 U	2.39 U	23.9 U	239 U	**2.29 J**	2.39 U	**3.87 J**	**2.04 J**	**0.576 J**	2.39 U
South Area	SA-E16-X-F (9-10)	9.0-10.0	6/9/2010	4.71 U	4.71 U	4.71 U	2.36 U	4.71 U	2.36 U	4.71 U	4.71 U	4.71 U	4.71 U	4.71 U	2.36 U	2.36 U	23.6 U	236 U	2.36 U	2.36 U	4.71 U	2.36 U	2.36 U	2.36 U
South Area	SA-E16-X-F(3.5-4.0)	3.5-4.0	27-Apr-2010	1920 U	1920 U	1920 U	960 U	1920 U	960 U	1920 U	1920 U	1920 U	1920 U	1920 U	960 U	960 U	9600 U	96000 U	**3,650 B**	960 U	**7,170**	**632 J**	960 U	960 U
South Area	SA-E16-X-F(4.0-4.5)	4.0-4.5	27-Apr-2010	244 U	244 U	244 U	122 U	244 U	122 U	244 U	244 U	244 U	244 U	244 U	122 U	122 U	1220 U	12200 U	**1,240 B**	122 U	**1,050**	**533**	**97.8 J**	122 U
South Area	SA-E16-X-F(4.5-5.0)	4.5-5.0	27-Apr-2010	175 U	175 U	175 U	87.7 U	175 U	87.7 U	175 U	175 U	175 U	175 U	175 U	87.7 U	87.7 U	877 U	8770 U	**1,080 B**	87.7 U	**479**	**156**	**223**	87.7 U
South Area	SA-E16-X-F(5-6)	5.0-6.0	27-Apr-2010	**24.8 J**	**26 J**	**166 J**	112 U	223 U	112 U	223 U	223 U	223 U	223 U	223 U	112 U	112 U	1120 U	11200 U	**47,500**	112 U	**8,150**	**380**	**8,380**	112 U
South Area	SA-E16-X-F(6-7)	6.0-7.0	27-Apr-2010	2420 U	2420 U	2420 U	1210 U	2420 U	1210 U	2420 U	2420 U	2420 U	2420 U	2420 U	1210 U	1210 U	12100 U	121000 U	**19,100**	1210 U	**19,500**	**1,020 J**	**4,040**	1210 U
South Area	SA-E16-X-F(7-8)	7.0-8.0	27-Apr-2010	522 U	522 U	522 U	261 U	522 U	261 U	522 U	522 U	522 U	522 U	522 U	261 U	261 U	2610 U	26100 U	**10,200**	261 U	**2,090**	**952**	**1,340**	261 U
South Area	SA-E16-X-SW	0-2	27-Jan-2010	230 U	230 U	230 U	115 U	230 U	115 U	230 U	230 U	230 U	230 U	230 U	115 U	115 U	1150 U	11500 U	**129**	115 U	**1060**	115 U	**24.7 J**	115 U
South Area	SA-E16-X-WW	0-2	27-Jan-2010	4560 U	4560 U	4560 U	2280 U	4560 U	2280 U	4560 U	4560 U	4560 U	4560 U	4560 U	2280 U	2280 U	22800 U	228000 U	**240000**	2280 U	**32000**	**3440**	**45700**	2280 U
South Area	SA-E16-X-WW10(0-2.0)	0-2	09-Mar-2010	2330 U	2330 U	2330 U	1170 U	2330 U	1170 U	2330 U	2330 U	2330 U	2330 U	2330 U	1170 U	1170 U	11700 U	117000 U	**16800**	1170 U	**2330**	**462 J**	**1260**	1170 U
South Area	SA-E16-X-WW10(0-2.0) DUP	0-2	09-Mar-2010	18600 U	18600 U	18600 U	9300 U	18600 U	9300 U	18600 U	18600 U	18600 U	18600 U	18600 U	9300 U	9300 U	93000 U	930000 U	**139000**	9300 U	**20600**	**2300 J**	**6670 J**	9300 U
South Area	SA-E16-X-WW10(2.5-3.0)	2.5-3	09-Mar-2010	917 U	917 U	917 U	459 U	917 U	459 U	917 U	917 U	917 U	917 U	917 U	459 U	459 U	4590 U	45900 U	**5570**	459 U	**2640**	459 U	**207 J**	459 U
South Area	SA-E16-X-WW10(2.5-3.0) DUP	2.5-3	09-Mar-2010	1810 U	1810 U	1810 U	904 U	1810 U	904 U	1810 U	1810 U	1810 U	1810 U	1810 U	904 U	904 U	9040 U	90400 U	**13800**	904 U	**3790**	904 U	**466 J**	904 U
South Area	SA-E16-X-WW10(3.0-3.5)	3-3.5	09-Mar-2010	1830 U	1830 U	1830 U	916 U	1830 U	916 U	1830 U	1830 U	1830 U	1830 U	1830 U	916 U	916 U	9160 U	91600 U	**8440**	916 U	**7050**	916 U	916 U	916 U
South Area	SA-E16-X-WW10(3.0-3.5) DUP	3-3.5	09-Mar-2010	915 U	915 U	915 U	457 U	915 U	457 U	915 U	915 U	915 U	915 U	915 U	457 U	457 U	4570 U	45700 U	**2780**	457 U	**5210**	457 U	**99.3 J**	457 U
South Area	SA-E16-X-WW10(3.5-4.0)	3.5-4.0	28-Apr-2010	219 U	219 U	219 U	110 U	219 U	110 U	219 U	219 U	219 U	219 U	219 U	110 U	110 U	1100 U	11000 U	**433**	110 U	**1030**	**144**	**52.4 J**	110 U
South Area	SA-E16-X-WW10(4.0-4.5)	4.0-4.5	28-Apr-2010	225 U	225 U	225 U	112 U	225 U	112 U	225 U	225 U	225 U	225 U	225 U	112 U	112 U	1120 U	11200 U	**404**	112 U	**1020**	**136**	**73.4 J**	112 U
South Area	SA-E16-X-WW10(4.5-5.0)	4.5-5.0	28-Apr-2010	94.5 U	94.5 U	94.5 U	47.2 U	94.5 U	47.2 U	94.5 U	94.5 U	94.5 U	94.5 U	94.5 U	47.2 U	47.2 U	472 U	4720 U	**155**	47.2 U	**191**	**31 J**	**10.1 J**	47.2 U
South Area	SA-E16-X-WW15(0-2.0)	0-2	09-Mar-2010	45.8 U	45.8 U	45.8 U	22.9 U	45.8 U	22.9 U	45.8 U	45.8 U	45.8 U	45.8 U	45.8 U	22.9 U	22.9 U	229 U	2290 U	**358**	22.9 U	**149**	**24.1**	**48.5**	22.9 U
South Area	SA-E16-X-WW15(0-2.0) DUP	0-2	09-Mar-2010	46.3 U	46.3 U	46.3 U	23.2 U	46.3 U	23.2 U	46.3 U	46.3 U	46.3 U	46.3 U	46.3 U	23.2 U	23.2 U	232 U	2320 U	**34.8**	23.2 U	**139**	23.2 U	23.2 U	23.2 U
South Area	SA-E16-X-WW15(3.5-4.0)	3.5-4.0	28-Apr-2010	4480 U	4480 U	4480 U	2240 U	4480 U	2240 U	4480 U	4480 U	4480 U	4480 U	4480 U	2240 U	2240 U	22400 U	224000 U	2240 U	2240 U	**22,400**	2240 U	2240 U	2240 U
South Area	SA-E16-X-WW15(4.0-4.5)	4.0-4.5	28-Apr-2010	450 U	450 U	450 U	225 U	450 U	225 U	450 U	450 U	450 U	450 U	450 U	225 U	225 U	2250 U	22500 U	**194 J**	225 U	**76.4 J**	225 U	225 U	2240 U
South Area	SA-E16-X-WW15(4.5-5.0)	4.5-5.0	28-Apr-2010	18000 U	18000 U	18000 U	8990 U	18000 U	8990 U	18000 U	18000 U	18000 U	18000 U	18000 U	8990 U	8990 U	89900 U	899000 U	**61,300**	8990 U	**20,400**	8990 U	**2,300 J**	8990 U
South Area	SA-E16-X-WW15(6-7)	6.0-7.0	6/9/2010	46 U	46 U	46 U	23 U	46 U	23 U	46 U	46 U	46 U	46 U	46 U	23 U	23 U	230 U	2300 U	**20.3 J**	23 U	**25.5 J**	**14.1 J**	**12.2 J**	23 U
South Area	SA-E16-X-WW15(7-8)	7.0-8.0	6/9/2010	20.4 J	28.2 J	5.94 J	24.3 U	48.6 U	24.3 U	48.6 U	48.6 U	48.6 U	48.6 U	48.6 U	24.3 U	24.3 U	243 U	2430 U	**95.7**	24.3 U	**71.2**	**17.9 J**	**7.24 J**	24.3 U
South Area	SA-E16-X-WW15(8-9)	8.0-9.0	6/9/2010	48.5 U	48.5 U	48.5 U	24.2 U	48.5 U	24.2 U	48.5 U	48.5 U	48.5 U	48.5 U	48.5 U	24.2 U	24.2 U	242 U	2420 U	**8.01 J**	24.2 U	48.5 U	24.2 U	24.2 U	24.2 U
South Area	SA-E16-X-WW15(9-10)	9.0-10.0	6/9/2010	47.1 U	47.1 U	47.1 U	23.6 U	47.1 U	23.6 U	47.1 U	47.1 U	47.1 U	47.1 U	47.1 U	23.6 U	23.6 U	236 U	2360 U	23.6 U	23.6 U	47.1 U	23.6 U	23.6 U	23.6 U
South Area	SA-E16-X-WW20(2.5-3.0)	2.5-3.0	28-Apr-2010	49.2 U	49.2 U	49.2 U	24.6 U	49.2 U	24.6 U	49.2 U	49.2 U	49.2 U	49.2 U	49.2 U	24.6 U	24.6 U	246 U	2460 U	**21.3 J**	24.6 U	**260**	**5.69 J**	24.6 U	24.6 U
South Area	SA-E16-X-WW20(3.0-3.5)	3.0-3.5	28-Apr-2010	495 U	495 U	495 U	247 U	495 U	247 U	495 U	495 U	495 U	495 U	495 U	247 U	247 U	2470 U	24700 U	**672**	247 U	**3,980**	**398**	247 U	247 U
South Area	SA-E16-X-WW20(3.5-4.0)	3.5-4.0	28-Apr-2010	447 U	447 U	447 U	223 U	447 U	223 U	447 U	447 U	447 U	447 U	447 U	223 U	223 U	2230 U	22300 U	**637**	223 U	**2900**	**51.4 J**	223 U	223 U
South Area	SA-E16-X-WW25(2.5-3.0)	2.5-3.0	28-Apr-2010	53200 U	53200 U	53200 U	26600 U	53200 U	26600 U	53200 U	53200 U	53200 U	53200 U	53200 U	26600 U	26600 U	266000 U	2660000 U	**7,080,000**	26600 U	**435,000**	**152,000**	**331,000**	26600 U
South Area	SA-E16-X-WW25(3.0-3.5)	3.0-3.5	28-Apr-2010	22400 U	22400 U	22400 U	11200 U	22400 U	11200 U	22400 U	22400 U	22400 U	22400 U	22400 U	11200 U	11200 U	112000 U	1120000 U	**1,240,000**	11200 U	**102000**	**30400**	**51100**	11200 U
South Area	SA-E16-X-WW25(3.5-4.0)	3.5-4.0	28-Apr-2010	4450 U	4450 U	4450 U	2220 U	4450 U	2220 U	4450 U	4450 U	4450 U	4450 U	4450 U	2220 U	2220 U	22200 U	222000 U	**21,300**	2220 U	**3,470 J**	**1,250 J**	**2660**	2220 U
South Area	SA-E16-X-WW25(5-6)	5.0-6.0	6/9/2010	46.4 U	46.4 U	46.4 U	23.2 U	46.4 U	23.2 U	46.4 U	46.4 U	46.4 U	46.4 U	46.4 U	23.2 U	23.2 U	232 U	2320 U	**9.81 J**	23.2 U	**6.68 J**	**5.39 J**	23.2 U	23.2 U
South Area	SA-E16-X-WW25(6-7)	6.0-7.0	6/9/2010	46.7 U	46.7 U	46.7 U	23.4 U	46.7 U	23.4 U	46.7 U	46.7 U	46.7 U	46.7 U	46.7 U	23.4 U	23.4 U	234 U	2340 U	**10.4 J**	23.4 U	**7.2 J**	**6.14 J**	23.4 U	23.4 U
South Area	SA-E16-X-WW25(7-8)	7.0-8.0	6/9/2010	46.6 U	46.6 U	46.6 U	23.3 U	46.6 U	23.3 U	46.6 U	46.6 U	46.6 U	46.6 U	46.6 U	23.3 U	23.3 U	233 U	2330 U	**5.65 J**	23.3 U	46.6 U	**5.65 J**	23.3 U	23.3 U
South Area	SA-E16-X-WW25(8-9)	8.0-9.0	6/9/2010	46.7 U	46.7 U	46.7 U	23.4 U	46.7 U	23.4 U	46.7 U	46.7 U	46.7 U	46.7 U	46.7 U	23.4 U	23.4 U	234 U	2340 U	**19 J**	23.4 U	8.49 J	23.4 U	23.4 U	23.4 U
South Area	SA-E16-X-WW30 (5-6)	5.0-6.0	6/9/2010	4.6 U	4.6 U	4.6 U	2.3 U	4.6 U	2.3 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	2.3 U	2.3 U	23 U	230 U	**8.95**	2.3 U	**3.59 J**	**9.35**	**1.19 J**	2.3 U
South Area	SA-E16-X-WW30 (6-7)	6.0-7.0	6/9/2010	4.62 U	4.62 U	4.62 U	2.31 U	4.62 U	2.31 U	4.62 U	4.62 U	4.62 U	4.62 U	4.62 U	2.31 U	2.31 U	23.1 U	231 U	**21**	2.31 U	**3.98 J**	**9.17**	**2.14 J**	2.31 U

TABLE 4-2 AOC-1 Soil Sampling Results

Soil Pesticide Data Summary - Southern Area (Rock Salt Warehouse)

Georgia Ports Authority, Bainbridge Terminal

		Proposed Site-Specific RRS Values (ug/kg):		*11,000*	*7,700*	*11,000*	*660*												*660*		*3,100*	*100*	*12,000*	
South Area	SA-E16-X-WW30 (7-8)	7.0-8.0	6/9/2010	46.1 U	46.1 U	46.1 U	23 U	46.1 U	23 U	46.1 U	46.1 U	46.1 U	46.1 U	46.1 U	46.1 U	23 U	23 U	230 U	2300 U	**6.91 J**	23 U	46.1 U	**12.8 J**	23 U	23 U
South Area	SA-E16-X-WW30 (8-9)	8.0-9.0	6/9/2010	46.4 U	46.4 U	46.4 U	23.2 U	46.4 U	23.2 U	46.4 U	46.4 U	46.4 U	46.4 U	46.4 U	46.4 U	23.2 U	23.2 U	232 U	2320 U	**56.3**	23.2 U	**21 J**	**31.5**	**13.3 J**	23.2 U
South Area	SA-E16-X-WW30(2.5-3.0)	2.5-3.0	28-Apr-2010	279000 U	279000 U	279000 U	139000 U	279000 U	139000 U	279000 U	279000 U	279000 U	279000 U	279000 U	279000 U	139000 U	139000 U	1390000 U	13900000 U	**10,500,000**	139000 U	**1,430,000**	**473,000**	**1,360,000**	139000 U
South Area	SA-E16-X-WW30(3.0-3.5)	3.0-3.5	28-Apr-2010	4520 U	4520 U	4520 U	2260 U	4520 U	2260 U	4520 U	4520 U	4520 U	4520 U	4520 U	4520 U	2260 U	2260 U	22600 U	226000 U	**38,600**	2260 U	**7,940**	**3,630**	**7260**	2260 U
South Area	SA-E16-X-WW30(3.5-4.0)	3.5-4.0	28-Apr-2010	48.3 U	48.3 U	48.3 U	24.1 U	48.3 U	24.1 U	48.3 U	48.3 U	48.3 U	48.3 U	48.3 U	48.3 U	24.1 U	24.1 U	241 U	2410 U	**2,660**	24.1 U	**163**	**95.4**	**241**	24.1 U
South Area	SA-E16-X-WW35 (2-4)	2.0-4.0	6/9/2010	50200 U	50200 U	50200 U	25100 U	50200 U	25100 U	50200 U	50200 U	50200 U	50200 U	50200 U	50200 U	25100 U	25100 U	251000 U	2510000 U	**7840000**	25100 U	**1820000**	**326000**	**347000**	25100 U
South Area	SA-E16-X-WW35 (4-6)	4.0-6.0	6/9/2010	45.2 U	45.2 U	45.2 U	22.6 U	45.2 U	22.6 U	45.2 U	45.2 U	45.2 U	45.2 U	45.2 U	45.2 U	22.6 U	22.6 U	226 U	2260 U	**164**	22.6 U	**129**	**32.2**	**29.1**	22.6 U
South Area	SA-E16-X-WW35 (6-8)	6.0-8.0	6/9/2010	49.5 U	49.5 U	49.5 U	24.7 U	49.5 U	24.7 U	49.5 U	49.5 U	49.5 U	49.5 U	49.5 U	49.5 U	24.7 U	24.7 U	247 U	2470 U	**14.3 J**	24.7 U	49.5 U	24.7 U	24.7 U	24.7 U
South Area	SA-E16-X-WW35 (8-10)	8.0-10.0	6/9/2010	47 U	47 U	47 U	23.5 U	47 U	23.5 U	47 U	47 U	47 U	47 U	47 U	47 U	23.5 U	23.5 U	235 U	2350 U	**34.1**	23.5 U	**23.3 J**	23.5 U	23.5 U	23.5 U
South Area	SA-E16-X-WW40 (2-4)	2.0-4.0	6/9/2010	45.2 U	45.2 U	45.2 U	22.6 U	45.2 U	22.6 U	45.2 U	45.2 U	45.2 U	45.2 U	45.2 U	45.2 U	22.6 U	22.6 U	226 U	2260 U	**12.3 J**	22.6 U	**12.4 J**	22.6 U	22.6 U	22.6 U
South Area	SA-E16-X-WW40 (4-6)	4.0-6.0	6/9/2010	44.4 U	44.4 U	44.4 U	22.2 U	44.4 U	22.2 U	44.4 U	44.4 U	44.4 U	44.4 U	44.4 U	44.4 U	22.2 U	22.2 U	222 U	2220 U	**8.07 J**	22.2 U	**6.65 J**	22.2 U	22.2 U	22.2 U
South Area	SA-E16-X-WW40 (6-8)	6.0-8.0	6/9/2010	48 U	48 U	48 U	24 U	48 U	24 U	48 U	48 U	48 U	48 U	48 U	48 U	24 U	24 U	240 U	2400 U	24 U	24 U	48 U	24 U	24 U	24 U
South Area	SA-E16-X-WW40 (8-10)	8.0-10.0	6/9/2010	46.6 U	46.6 U	46.6 U	23.3 U	46.6 U	23.3 U	46.6 U	46.6 U	46.6 U	46.6 U	46.6 U	46.6 U	23.3 U	23.3 U	233 U	2330 U	23.3 U	23.3 U	46.6 U	23.3 U	23.3 U	23.3 U
South Area	SA-E16-X-WW45 (2-4)	2.0-4.0	6/10/2010	47.4 U	47.4 U	47.4 U	23.7 U	47.4 U	23.7 U	47.4 U	47.4 U	47.4 U	47.4 U	47.4 U	47.4 U	23.7 U	23.7 U	237 U	2370 U	23.7 U	23.7 U	47.4 U	23.7 U	23.7 U	23.7 U
South Area	SA-E16-X-WW45 (4-6)	4.0-6.0	6/10/2010	47.5 U	47.5 U	47.5 U	23.7 U	47.5 U	23.7 U	47.5 U	47.5 U	47.5 U	47.5 U	47.5 U	47.5 U	23.7 U	23.7 U	237 U	2370 U	23.7 U	23.7 U	47.5 U	23.7 U	23.7 U	23.7 U
South Area	SA-E16-X-WW45 (6-8)	6.0-8.0	6/10/2010	44.8 U	44.8 U	44.8 U	22.4 U	44.8 U	22.4 U	44.8 U	44.8 U	44.8 U	44.8 U	44.8 U	44.8 U	22.4 U	22.4 U	224 U	2240 U	22.4 U	22.4 U	44.8 U	22.4 U	22.4 U	22.4 U
South Area	SA-E16-X-WW45 (8-10)	8.0-10.0	6/10/2010	44.2 U	44.2 U	44.2 U	22.1 U	44.2 U	22.1 U	44.2 U	44.2 U	44.2 U	44.2 U	44.2 U	44.2 U	22.1 U	22.1 U	221 U	2210 U	**5.6 J**	22.1 U	44.2 U	22.1 U	22.1 U	22.1 U
South Area	SA-E16-X-WW5 (6-7)	6.0-7.0	6/9/2010	49.1 U	49.1 U	49.1 U	24.6 U	49.1 U	24.6 U	49.1 U	49.1 U	49.1 U	49.1 U	49.1 U	49.1 U	24.6 U	24.6 U	246 U	2460 U	**13.8 J**	24.6 U	**14.8 J**	24.6 U	24.6 U	24.6 U
South Area	SA-E16-X-WW5 (7-8)	7.0-8.0	6/9/2010	48.8 U	48.8 U	48.8 U	24.4 U	48.8 U	24.4 U	48.8 U	48.8 U	48.8 U	48.8 U	48.8 U	48.8 U	24.4 U	24.4 U	244 U	2440 U	**12 J**	24.4 U	**6.3 J**	24.4 U	24.4 U	24.4 U
South Area	SA-E16-X-WW5 (8-9)	8.0-9.0	6/9/2010	48.3 U	48.3 U	48.3 U	24.2 U	48.3 U	24.2 U	48.3 U	48.3 U	48.3 U	48.3 U	48.3 U	48.3 U	24.2 U	24.2 U	242 U	2420 U	**6.76 J**	24.2 U	48.3 U	**20.9 J**	24.2 U	24.2 U
South Area	SA-E16-X-WW5 (9-10)	9.0-10.0	6/9/2010	47.5 U	47.5 U	47.5 U	23.8 U	47.5 U	23.8 U	47.5 U	47.5 U	47.5 U	47.5 U	47.5 U	47.5 U	23.8 U	23.8 U	238 U	2380 U	**6.65 J**	23.8 U	47.5 U	23.8 U	23.8 U	23.8 U
South Area	SA-E16-X-WW5(0-2)	0-2	02-Mar-2010	45.6 U	45.6 U	45.6 U	22.8 U	45.6 U	22.8 U	45.6 U	45.6 U	45.6 U	45.6 U	45.6 U	45.6 U	22.8 U	22.8 U	228 U	2280 U	**11.1 J**	22.8 U	**7.77 J**	22.8 U	22.8 U	22.8 U
South Area	SA-E16-X-WW5(3.5-4.0)	3.5-4.0	28-Apr-2010	901 U	901 U	901 U	450 U	901 U	450 U	901 U	901 U	901 U	901 U	901 U	901 U	450 U	450 U	4500 U	45000 U	**3,160**	450 U	**21,500**	**407 J**	**374 J**	450 U
South Area	SA-E16-X-WW5(4.0-4.5)	4.0-4.5	28-Apr-2010	878 U	878 U	**826 J**	439 U	878 U	439 U	878 U	878 U	878 U	878 U	878 U	878 U	439 U	439 U	4390 U	43900 U	**892**	439 U	**4,950**	**297 J**	**92.5 J**	439 U
South Area	SA-E16-X-WW5(4.5-5.0)	4.5-5.0	28-Apr-2010	233 U	233 U	233 U	117 U	233 U	117 U	233 U	233 U	233 U	233 U	233 U	233 U	117 U	117 U	1170 U	11700 U	**203**	117 U	**3180**	**153**	**30.4 J**	117 U
South Area	SA-E17-A(2.5-3.0)-F	2.5-3	03-Mar-2010	463 U	463 U	463 U	231 U	463 U	231 U	463 U	463 U	463 U	463 U	463 U	463 U	231 U	231 U	2310 U	23100 U	**199 J**	231 U	**2250**	**65.4 J**	231 U	231 U
South Area	SA-E17-A(3.0-3.5)-F	3-3.5	03-Mar-2010	91.1 U	91.1 U	91.1 U	45.6 U	91.1 U	45.6 U	91.1 U	91.1 U	91.1 U	91.1 U	91.1 U	91.1 U	45.6 U	45.6 U	456 U	4560 U	**51.6**	45.6 U	**436**	**36.7 J**	45.6 U	45.6 U
South Area	SA-E17-A-F	2	27-Jan-2010	918 U	918 U	918 U	459 U	918 U	459 U	918 U	918 U	918 U	918 U	918 U	918 U	459 U	459 U	4590 U	45900 U	**86.8 J**	459 U	**3970**	459 U	459 U	459 U
South Area	SA-E17-A-WW	0-2	27-Jan-2010	465 U	465 U	**156 J**	233 U	465 U	233 U	465 U	465 U	465 U	465 U	465 U	465 U	233 U	233 U	2330 U	23300 U	**78.7 J**	233 U	**2350**	233 U	233 U	233 U
South Area	SA-E17-B(2.5-3.0)-F	2.5-3	03-Mar-2010	4710 U	4710 U	4710 U	2360 U	4710 U	2360 U	4710 U	4710 U	4710 U	4710 U	4710 U	4710 U	2360 U	2360 U	23600 U	236000 U	**27400**	2360 U	**11800**	**1770 J**	**2520**	2360 U
South Area	SA-E17-B(3.0-3.5)-F	3-3.5	03-Mar-2010	1810 U	1810 U	1810 U	905 U	1810 U	905 U	1810 U	1810 U	1810 U	1810 U	1810 U	1810 U	905 U	905 U	9050 U	90500 U	**9750**	905 U	**4240**	**585 J**	**1010**	905 U
South Area	SA-E17-B-F	2	27-Jan-2010	**589 J**	2300 U	**593 J**	1150 U	2300 U	1150 U	2300 U	2300 U	2300 U	2300 U	2300 U	2300 U	1150 U	1150 U	11500 U	115000 U	**15100**	1150 U	**9650**	**2520**	**4650**	1150 U
South Area	SA-E17-B-F (3.5-4.0)	3.5-4.0	29-Apr-2010	446 U	446 U	446 U	223 U	446 U	223 U	446 U	446 U	446 U	446 U	446 U	446 U	223 U	223 U	2230 U	22300 U	**402**	223 U	**2,120**	**85.1 J**	**134 J**	223 U
South Area	SA-E17-B-F (4.0-4.5)	4.0-4.5	29-Apr-2010	174 U	174 U	174 U	86.8 U	174 U	86.8 U	174 U	174 U	174 U	174 U	174 U	174 U	86.8 U	86.8 U	868 U	8680 U	**1,040**	86.8 U	**482**	**45.2 J**	**81.6 J**	86.8 U
South Area	SA-E17-B-F (4.5-5.0)	4.5-5.0	29-Apr-2010	43.2 U	43.2 U	**7.14 J**	21.6 U	43.2 U	21.6 U	43.2 U	43.2 U	43.2 U	43.2 U	43.2 U	43.2 U	21.6 U	21.6 U	216 U	2160 U	**245**	21.6 U	**450**	**84**	**69.7**	21.6 U
South Area	SA-E17-B-NW	0-2	27-Jan-2010	462 U	462 U	462 U	231 U	462 U	231 U	462 U	462 U	462 U	462 U	462 U	462 U	231 U	231 U	2310 U	23100 U	**162 J**	231 U	**3700**	231 U	231 U	231 U
South Area	SA-E17-B-WW	0-2	27-Jan-2010	461 U	461 U	461 U	231 U	461 U	231 U	461 U	461 U	461 U	461 U	461 U	461 U	231 U	231 U	2310 U	23100 U	**848**	231 U	**2440**	**63.9 J**	**55.7 J**	231 U
South Area	SA-E17-B-WW10-(0-2)	0-2	03-Mar-2010	1840 U	1840 U	1840 U	922 U	1840 U	922 U	1840 U	1840 U	1840 U	1840 U	1840 U	1840 U	922 U	922 U	9220 U	92200 U	**10100**	922 U	**4140**	922 U	**262 J**	922 U
South Area	SA-E17-B-WW10-(2.5-3.0)	2.5-3	09-Mar-2010	451 U	451 U	451 U	225 U	451 U	225 U	451 U	451 U	451 U	451 U	451 U	451 U	225 U	225 U	2250 U	22500 U	**2360**	225 U	**1140**	225 U	**59.3 J**	225 U
South Area	SA-E17-B-WW10-(2.5-3.0) DUP	2.5-3	09-Mar-2010	906 U	906 U	906 U	453 U	906 U	453 U	906 U	906 U	906 U	906 U	906 U	906 U	453 U	453 U	4530 U	45300 U	**4420**	453 U	**2720**	453 U	**89.7 J**	453 U
South Area	SA-E17-B-WW10-(3.0-3.5)	3-3.5	09-Mar-2010	**151 J**	**57.1 J**	**827**	231 U	462 U	231 U	462 U	462 U	462 U	462 U	462 U	462 U	231 U	231 U	2310 U	23100 U	**1420**	231 U	**3730**	**734**	**320**	231 U
South Area	SA-E17-B-WW10(4.0-4.5)	4.0-4.5	28-Apr-2010	4720 U	4720 U	4720 U	2360 U	4720 U	2360 U	4720 U	4720 U	4720 U	4720 U	4720 U	4720 U	2360 U	2360 U	23600 U	236000 U	**48,500 B**	2360 U	**14,000**	2360 U	**1,320 J**	2360 U
South Area	SA-E17-B-WW10(4.5-5.0)	4.5-5.0	28-Apr-2010	889 U	889 U	889 U	444 U	889 U	444 U	889 U	889 U	889 U	889 U	889 U	889 U	444 U	444 U	4440 U	44400 U	**9,150 B**	444 U	**3,610**	**972**	**497**	444 U
South Area	SA-E17-B-WW10(5.0-6.0)	5.0-6.0	28-Apr-2010	100 U	100 U	100 U	50.2 U	100 U	50.2 U	100 U	100 U	100 U	100 U	100 U	100 U	50.2 U	50.2 U	502 U	5020 U	**1,110 B**	50.2 U	**692**	**403**	**55.4**	50.2 U
South Area	SA-E17-B-WW10(6-7)	6.0-7.0	6/7/2010	448 U	448 U	448 U	224 U	448 U	224 U	448 U	448 U	448 U	448 U	448 U	448 U	224 U	224 U	2240 U	22400 U	**1100**	224 U	**1480**	**246**	224 U	224 U
South Area	SA-E17-B-WW10(7-8)	7.0-8.0	6/7/2010	467 U	467 U	467 U	234 U	467 U	234 U	467 U	467 U	467 U	467 U	467 U	467 U	234 U	234 U	2340 U	23400 U	**2120**	234 U	**4740**	**562**	234 U	234 U
South Area	SA-E17-B-WW10(8-9)	8.0-9.0	6/7/2010	86.6 U	86.6 U	86.6 U	43.3 U	86.6 U	43.3 U	86.6 U	86.6 U	86.6 U	86.6 U	86.6 U	86.6 U	43.3 U	43.3 U	433 U	4330 U	**426**	43.3 U	**435**	**95.3**	**15.2 J**	43.3 U
South Area	SA-E17-B-WW10(9-10)	9.0-10.0	6/7/2010	44.6 U	44.6 U	44.6 U	22.3 U	44.6 U	22.3 U	44.6 U	44.6 U	44.6 U	44.6 U	44.6 U	44.6 U	22.3 U	22.3 U	223 U	2230 U	22.3 U	22.3 U	44.6 U	22.3 U	22.3 U	22.3 U
South Area	SA-E17-B-WW15-(0-2.0)	0-2	03-Mar-2010	923 U	923 U	923 U	462 U	923 U	462 U	923 U	923 U	923 U	923 U	923 U	923 U	462 U	462 U	4620 U	46200 U	**1030**	462 U	**5330**	462 U	462 U	462 U
South Area	SA-E17-B-WW15(4.0-4.5)	4.0-4.5	28-Apr-2010	22200 U	22200 U	22200 U	11100 U	22200 U	11100 U	22200 U	22200 U	22200 U	22200 U	22200 U	22200 U	11100 U	11100 U	111000 U	1110000 U	**112,000 B**	11100 U	**37,500**	**4,760 J**	**5,200 J**	11100 U
South Area	SA-E17-B-WW15(4.5-5.0)	4.5-5.0	28-Apr-2010	2260 U	2260 U	2260 U	1130 U	2260 U	1130 U	2260 U	2260 U	2260 U	2260 U	2260 U	2260 U	1130 U	1130 U	11300 U	113000 U	**71,600**	1130 U	**18,000**	**2,760**	**2800**	1130 U
South Area	SA-E17-B-WW15(5.0-6.0)	5.0-6.0	28-Apr-2010	442 U	442 U	442 U	221 U	442 U	221 U	442 U	442 U	442 U	442 U	442 U	442 U	221 U	221 U	2210 U	22100 U	**5850**	221 U	**1820**	**821**	**782**	221 U
South Area	SA-E17-B-WW15(6-7)	6.0-7.0	6/7/2010	4600 U	4600 U	4600 U	2300 U	4600 U	2300 U	4600 U	4600 U	4600 U	4600 U	4600 U	4600 U	2300 U	2300 U	23000 U	230000 U	**230000**	2300 U	**29900**	**978 J**	**2850**	2300 U
South Area	SA-E17-B-WW15(7-8)	7.0-8.0	6/7/2010	4420 U	4420 U	4420 U	2210 U	4420 U	2210 U	4420 U	4420 U	4420 U	4420 U	4420 U	4420 U	2210 U	2210 U	22100 U	221000 U	**412000 J**	2210 U	**80900**	**4830**	**12400**	2210 U
South Area	SA-E17-B-WW15(8-9)	8.0-9.0	6/7/2010	217 U	217 U	217 U	109 U	217 U	109 U	217 U	217 U	217 U	217 U	217 U	217 U	109 U	109 U	1090 U	10900 U	**1360**	109 U	**280**	**35.7 J**	**42.8 J**	109 U
South Area	SA-E17-B-WW15(9-10)	9.0-10.0	6/7/2010	51.9 U	51.9 U	51.9 U	26 U	51.9 U	26 U	51.9 U	51.9 U	51.9 U	51.9 U	51.9 U	51.9 U	26 U	26 U	260 U	2600 U	26 U	26 U	51.9 U	26 U	26 U	26 U
South Area	SA-E17-B-WW20(2.5-3.0)	2.5-3.0	28-Apr-2010	47 U	47 U	47 U	23.5 U	47 U	23.5 U	47 U	47 U	47 U	47 U	47 U	47 U	23.5 U	23.5 U	235 U	2350 U	**14.1 J**	23.5 U	**114**	**23.5 U**	**23.5 U**	23.5 U
South Area	SA-E17-B-WW20(3.0-3.5)	3.0-3.5	28-Apr-2010	46.8 U	46.8 U	46.8 U	23.4 U	46.8 U	23.4 U	46.8 U	46.8 U	46.8 U	46.8 U	46.8 U	46.8 U	23.4 U	23.4 U	234 U	2340 U	**32.1**	23.4 U	**250**	**13.1 J**	**23.4 U**	23.4 U
South Area	SA-E17-B-WW20(3.5-4.0)	3.5-4.0	28-Apr-2010	465 U	465 U	465 U	232 U	465 U	232 U	465 U	465 U	465 U	465 U	465 U	465 U	232 U	232 U	2320 U	23200 U	**1,150**	232 U	**2100**	**268**	**232 U**	232 U
South Area	SA-E17-B-WW20(5-6)	5.0-6.0	6/8/2010	220 U	220 U	220 U	110 U	220 U	110 U	220 U	220 U	220 U	220 U	220 U	220 U	110 U	110 U	1100 U	11000 U	**961**	110 U	**473**	**180**	**151**	110 U
South Area	SA-E17-B-WW20(6-7)	6.0-7.0	6/8/2010	468 U	468 U	468 U	234 U	468 U	234 U	468 U	468 U	468 U	468 U	468 U	468 U	234 U	234 U	2340 U	23400 U	**26200**	234 U	**5360**	**536**	**757**	234 U
South Area	SA-E17-B-WW20(7-8)	7.0-8.0	6/8/2010	45.4 U	45.4 U	45.4 U	22.7 U	45.4 U	22.7 U	45.4 U	45.4 U	45.4 U	45.4 U	45.4 U	45.4 U	22.7 U	22.7 U	227 U	2270 U	**16.8 J**	22.7 U	45.4 U	22.7 U	22.7 U	22.7 U
South Area	SA-E17-B-WW20(8-9)	8.0-9.0	6/8/2010	46.8 U	46.8 U	46.8 U	23.4 U	46.8 U	23.4 U	46.8 U	46.8 U	46.8 U	46.8 U	46.8 U	46.8 U	23.4 U	23.4 U	234 U	2340 U	23.4 U	23.4 U	46.8 U	23.4 U	23.4 U	23.4 U
South Area	SA-E17-B-WW25(2.5-3.0)	2.5-3.0	28-Apr-2010	46.1 U	46.1 U	46.1 U	23 U	46.1 U	23 U	46.1 U	46.1 U	46.1 U	46.1 U	46.1 U	46.1 U	23 U	23 U	230 U	2300 U	**5.3 J**	23 U	**34.6 J**	**23 U**	**23 U**	23 U
South Area	SA-E17-B-WW25(3.0-3.5)	3.0-3.5	28-Apr-2010	459 U	459 U	459 U	229 U	459 U	229 U	459 U	459 U	459 U	459 U	459 U	459 U	229 U	229 U	2290 U	22900 U	**11,700**	229 U	**2,430**	**64.3 J**	**157 J**	229 U

TABLE 4-2 AOC-1 Soil Sampling Results

Soil Pesticide Data Summary - Southern Area (Rock Salt Warehouse)

Georgia Ports Authority, Bainbridge Terminal

		Proposed Site-Specific RRS Values (ug/kg):		***11,000***	***7,700***	***11,000***	***660***												***660***		***3,100***	***100***	***12,000***	
South Area	SA-E17-B-WW25(3.5-4.0)	3.5-4.0	28-Apr-2010	**16.1 J**	45.9 U	**9.39 J**	23 U	45.9 U	23 U	45.9 U	45.9 U	45.9 U	45.9 U	45.9 U	45.9 U	23 U	23 U	230 U	2300 U	**4,200**	23 U	**4,200**	**350**	**167**	23 U
South Area	SA-E17-B-WW25(5-6)	5.0-6.0	6/8/2010	48.8 U	48.8 U	48.8 U	24.4 U	48.8 U	24.4 U	48.8 U	48.8 U	48.8 U	48.8 U	48.8 U	48.8 U	24.4 U	24.4 U	244 U	2440 U	24.4 U	24.4 U	48.8 U	24.4 U	24.4 U	24.4 U
South Area	SA-E17-B-WW25(6-7)	6.0-7.0	6/8/2010	231 U	231 U	231 U	116 U	231 U	116 U	231 U	231 U	231 U	231 U	231 U	231 U	116 U	116 U	1160 U	11600 U	**9280**	116 U	**1530**	**564**	**1150**	116 U
South Area	SA-E17-B-WW25(7-8)	7.0-8.0	6/8/2010	45.1 U	45.1 U	45.1 U	22.5 U	45.1 U	22.5 U	45.1 U	45.1 U	45.1 U	45.1 U	45.1 U	45.1 U	22.5 U	22.5 U	225 U	2250 U	**8.83 J**	22.5 U	45.1 U	22.5 U	22.5 U	22.5 U
South Area	SA-E17-B-WW25(8-9)	8.0-9.0	6/8/2010	47 U	47 U	47 U	23.5 U	47 U	23.5 U	47 U	47 U	47 U	47 U	47 U	47 U	23.5 U	23.5 U	235 U	2350 U	23.5 U	23.5 U	**11.5 J**	23.5 U	23.5 U	23.5 U
South Area	SA-E17-B-WW30(2.5-3.0)	2.5-3.0	28-Apr-2010	227 U	227 U	227 U	114 U	227 U	114 U	227 U	227 U	227 U	227 U	227 U	227 U	114 U	114 U	1140 U	11400 U	**1,390**	114 U	**1,290**	**180**	**83.3 J**	114 U
South Area	SA-E17-B-WW30(3.0-3.5)	3.0-3.5	28-Apr-2010	919 U	919 U	919 U	460 U	919 U	460 U	919 U	919 U	919 U	919 U	919 U	919 U	460 U	460 U	4600 U	46000 U	**7,580**	460 U	**3,680**	**2,410**	**3,220**	460 U
South Area	SA-E17-B-WW30(3.5-4.0)	3.5-4.0	28-Apr-2010	23200 U	23200 U	23200 U	11600 U	23200 U	11600 U	23200 U	23200 U	23200 U	23200 U	23200 U	23200 U	11600 U	11600 U	116000 U	1160000 U	**585,000**	11600 U	**70,300**	**149,000**	**269,000**	11600 U
South Area	SA-E17-B-WW30(5-6)	5.0-6.0	6/8/2010	92.6 U	92.6 U	92.6 U	46.3 U	92.6 U	46.3 U	92.6 U	92.6 U	92.6 U	92.6 U	92.6 U	92.6 U	46.3 U	46.3 U	463 U	4630 U	**462**	46.3 U	**503**	**114**	**33.1 J**	46.3 U
South Area	SA-E17-B-WW30(6-7)	6.0-7.0	6/8/2010	450000 U	450000 U	450000 U	225000 U	450000 U	225000 U	450000 U	450000 U	450000 U	450000 U	450000 U	450000 U	225000 U	225000 U	2250000 U	22500000 U	**4780000**	225000 U	**661000**	**69500 J**	**945000**	225000 U
South Area	SA-E17-B-WW30(7-8)	7.0-8.0	6/8/2010	44.7 U	44.7 U	44.7 U	22.4 U	44.7 U	22.4 U	44.7 U	44.7 U	44.7 U	44.7 U	44.7 U	44.7 U	22.4 U	22.4 U	224 U	2240 U	**56.3**	22.4 U	44.7 U	22.4 U	22.4 U	22.4 U
South Area	SA-E17-B-WW30(8-9)	8.0-9.0	6/8/2010	48.4 U	48.4 U	48.4 U	24.2 U	48.4 U	24.2 U	48.4 U	48.4 U	48.4 U	48.4 U	48.4 U	48.4 U	24.2 U	24.2 U	242 U	2420 U	**5.27 J**	24.2 U	**14.3 J**	24.2 U	24.2 U	24.2 U
South Area	SA-E17-B-WW30(9-10)	9.0-10.0	6/8/2010	49 U	49 U	49 U	24.5 U	49 U	24.5 U	49 U	49 U	49 U	49 U	49 U	49 U	24.5 U	24.5 U	245 U	2450 U	24.5 U	24.5 U	**48.7 J**	24.5 U	24.5 U	24.5 U
South Area	SA-E17-B-WW35(2-4)	2.0-4.0	6/8/2010	44.1 U	44.1 U	44.1 U	22 U	44.1 U	22 U	44.1 U	44.1 U	44.1 U	44.1 U	44.1 U	44.1 U	22 U	22 U	220 U	2200 U	**25.9**	22 U	**80**	22 U	22 U	22 U
South Area	SA-E17-B-WW35(4-6)	4.0-6.0	6/8/2010	42.9 U	42.9 U	42.9 U	21.5 U	42.9 U	21.5 U	42.9 U	42.9 U	42.9 U	42.9 U	42.9 U	42.9 U	21.5 U	21.5 U	215 U	2150 U	**9.89 J**	21.5 U	42.9 U	21.5 U	21.5 U	21.5 U
South Area	SA-E17-B-WW35(6-8)	6.0-8.0	6/8/2010	49.3 U	49.3 U	49.3 U	24.6 U	49.3 U	24.6 U	49.3 U	49.3 U	49.3 U	49.3 U	49.3 U	49.3 U	24.6 U	24.6 U	246 U	2460 U	**5.6 J**	24.6 U	**81.1**	**8.21 J**	24.6 U	24.6 U
South Area	SA-E17-B-WW35(8-10)	8.0-10.0	6/8/2010	51.4 U	51.4 U	51.4 U	25.7 U	51.4 U	25.7 U	51.4 U	51.4 U	51.4 U	51.4 U	51.4 U	51.4 U	25.7 U	25.7 U	257 U	2570 U	**49.7**	25.7 U	**169**	**28.8**	**13.1 J**	25.7 U
South Area	SA-E17-B-WW40(2-4)	2.0-4.0	6/8/2010	41 U	41 U	41 U	20.5 U	41 U	20.5 U	41 U	41 U	41 U	41 U	41 U	41 U	20.5 U	20.5 U	205 U	2050 U	**225**	20.5 U	**49**	**46.8**	20.5 U	2.31 U
South Area	SA-E17-B-WW40(4-6)	4.0-6.0	6/8/2010	43.6 U	43.6 U	43.6 U	21.8 U	43.6 U	21.8 U	43.6 U	43.6 U	43.6 U	43.6 U	43.6 U	43.6 U	21.8 U	21.8 U	218 U	2180 U	**57.1**	21.8 U	**15.6 J**	**46.3**	**46.3**	21.8 U
South Area	SA-E17-B-WW40(6-8)	6.0-8.0	6/8/2010	4.58 U	4.58 U	4.58 U	2.29 U	4.58 U	2.29 U	4.58 U	4.58 U	4.58 U	4.58 U	4.58 U	4.58 U	2.29 U	2.29 U	22.9 U	229 U	**5.27**	2.29 U	**4.02 J**	**4.13**	**4.3**	2.29 U
South Area	SA-E17-B-WW40(8-10)	8.0-10.0	6/8/2010	4.57 U	4.57 U	4.57 U	2.29 U	4.57 U	2.29 U	4.57 U	4.57 U	4.57 U	4.57 U	4.57 U	4.57 U	2.29 U	2.29 U	22.9 U	229 U	**7.23**	2.29 U	**8.6**	**3.9**	2.29 U	2.29 U
South Area	SA-E17-B-WW45(2-4)	2.0-4.0	6/8/2010	4.34 U	4.34 U	4.34 U	2.17 U	4.34 U	2.17 U	4.34 U	4.34 U	4.34 U	4.34 U	4.34 U	4.34 U	2.17 U	2.17 U	21.7 U	217 U	**164**	2.17 U	**22.9**	**15.3**	**43.7**	2.17 U
South Area	SA-E17-B-WW45(4-6)	4.0-6.0	6/8/2010	4650 U	4650 U	4650 U	2330 U	4650 U	2330 U	4650 U	4650 U	4650 U	4650 U	4650 U	4650 U	2330 U	2330 U	23300 U	233000 U	**29700**	2330 U	**13900**	**26200**	**30100**	2330 U
South Area	SA-E17-B-WW45(6-8)	6.0-8.0	6/8/2010	4.81 U	4.81 U	4.81 U	2.4 U	4.81 U	2.4 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	4.81 U	2.4 U	2.4 U	24 U	240 U	**8.74**	2.4 U	**52.5**	**15.8**	**9.72**	2.4 U
South Area	SA-E17-B-WW45(8-10)	8.0-10.0	6/8/2010	4.77 U	4.77 U	4.77 U	2.38 U	4.77 U	2.38 U	4.77 U	4.77 U	4.77 U	4.77 U	4.77 U	4.77 U	2.38 U	2.38 U	23.8 U	238 U	**1.42 J**	2.38 U	**2.62 J**	**1.97 J**	**1.18 J**	2.38 U
South Area	SA-E17-B-WW5-(0-2)	0-2	03-Mar-2010	225 U	225 U	225 U	113 U	225 U	113 U	225 U	225 U	225 U	225 U	225 U	225 U	113 U	113 U	1130 U	11300 U	**1490**	113 U	**843**	113 U	**38.3 J**	113 U
South Area	SA-E17-B-WW5(4.0-4.5)	4.0-4.5	28-Apr-2010	44.5 U	44.5 U	44.5 U	22.2 U	44.5 U	22.2 U	44.5 U	44.5 U	44.5 U	44.5 U	44.5 U	44.5 U	22.2 U	22.2 U	222 U	2220 U	**201 B**	22.2 U	**276**	22.2 U	**64**	22.2 U
South Area	SA-E17-B-WW5(4.5-5.0)	4.5-5.0	28-Apr-2010	4460 U	4460 U	4460 U	2230 U	4460 U	2230 U	4460 U	4460 U	4460 U	4460 U	4460 U	4460 U	2230 U	2230 U	22300 U	223000 U	**44,700 B**	2230 U	**13,400**	**1,900 J**	**2,840**	2230 U
South Area	SA-E17-B-WW5(5.0-6.0)	5.0-6.0	28-Apr-2010	438 U	438 U	438 U	219 U	438 U	219 U	438 U	438 U	438 U	438 U	438 U	438 U	219 U	219 U	2190 U	21900 U	**1,220 B**	219 U	**1,880**	**354**	**186 J**	219 U
South Area	SA-E17-B-WW5(6-7)	6.0-7.0	6/7/2010	862 U	862 U	862 U	431 U	862 U	431 U	862 U	862 U	862 U	862 U	862 U	862 U	431 U	431 U	4310 U	43100 U	**3740**	431 U	**6530**	**1140**	431 U	431 U
South Area	SA-E17-B-WW5(7-8)	7.0-8.0	6/7/2010	218 U	218 U	218 U	109 U	218 U	109 U	218 U	218 U	218 U	218 U	218 U	218 U	109 U	109 U	1090 U	10900 U	**793**	109 U	**492**	**196**	**145**	109 U
South Area	SA-E17-B-WW5(8-9)	8.0-9.0	6/7/2010	44.6 U	44.6 U	44.6 U	22.3 U	44.6 U	22.3 U	44.6 U	44.6 U	44.6 U	44.6 U	44.6 U	44.6 U	22.3 U	22.3 U	223 U	2230 U	**5.36 J**	22.3 U	**14.6 J**	22.3 U	22.3 U	22.3 U
South Area	SA-E17-B-WW5(9-10)	9.0-10.0	6/7/2010	47.3 U	47.3 U	47.3 U	23.6 U	47.3 U	23.6 U	47.3 U	47.3 U	47.3 U	47.3 U	47.3 U	47.3 U	23.6 U	23.6 U	236 U	2360 U	23.6 U	23.6 U	**20.1 J**	23.6 U	23.6 U	23.6 U
South Area	SA-E17-C-F	2	27-Jan-2010	44.8 U	44.8 U	**6.79 J**	22.4 U	44.8 U	22.4 U	44.8 U	44.8 U	44.8 U	44.8 U	44.8 U	44.8 U	22.4 U	22.4 U	224 U	2240 U	**12.5 J**	22.4 U	**215**	22.4 U	22.4 U	22.4 U
South Area	SA-E17-D(2.5-3.0)-F	2.5-3	03-Mar-2010	454 U	454 U	454 U	227 U	454 U	227 U	454 U	454 U	454 U	454 U	454 U	454 U	227 U	227 U	2270 U	22700 U	**742**	227 U	**3120**	**161 J**	**61.2 J**	227 U
South Area	SA-E17-D(3.0-3.5)-F	3-3.5	03-Mar-2010	474 U	474 U	474 U	237 U	474 U	237 U	474 U	474 U	474 U	474 U	474 U	474 U	237 U	237 U	2370 U	23700 U	**2550**	237 U	**1780**	**67.5 J**	**62.9 J**	237 U
South Area	SA-E17-D-F	2	27-Jan-2010	**318 J**	**136 J**	**466**	227 U	454 U	227 U	454 U	454 U	454 U	454 U	454 U	454 U	227 U	227 U	2270 U	22700 U	**1090**	227 U	**56800**	**295**	**108 J**	227 U
South Area	SA-E17-D-F(3.5-4.0)	3.5-4.0	22-Apr-2010	45.8 U	45.8 U	45.8 U	22.9 U	45.8 U	22.9 U	45.8 U	45.8 U	45.8 U	45.8 U	45.8 U	45.8 U	22.9 U	22.9 U	229 U	2290 U	22.9 U	22.9 U	**31.9 J**	22.9 U	22.9 U	22.9 U
South Area	SA-E17-D-F(4.0-4.5)	4.0-4.5	22-Apr-2010	42.8 U	42.8 U	42.8 U	21.4 U	42.8 U	21.4 U	42.8 U	42.8 U	42.8 U	42.8 U	42.8 U	42.8 U	21.4 U	21.4 U	214 U	2140 U	21.4 U	21.4 U	**35.9 J**	21.4 U	21.4 U	21.4 U
South Area	SA-E17-D-F(4.5-5.0)	4.5-5.0	29-Apr-2010	46.2 U	46.2 U	46.2 U	23.1 U	46.2 U	23.1 U	46.2 U	46.2 U	46.2 U	46.2 U	46.2 U	46.2 U	23.1 U	23.1 U	231 U	2310 U	23.1 U	23.1 U	**31.7 J**	23.1 U	23.1 U	23.1 U
South Area	SA-E17-E-F (4-5)	4-5	28-Jan-2010	44.3 U	44.3 U	44.3 U	22.1 U	44.3 U	22.1 U	44.3 U	44.3 U	44.3 U	44.3 U	44.3 U	44.3 U	22.1 U	22.1 U	221 U	2210 U	**356**	22.1 U	**3560**	**62.2**	**86.7**	22.1 U
South Area	SA-E17-E-F-D (4-5)	4-5	28-Jan-2010	87.9 U	87.9 U	87.9 U	44 U	87.9 U	44 U	87.9 U	87.9 U	87.9 U	87.9 U	87.9 U	87.9 U	44 U	44 U	440 U	4400 U	**235**	44 U	**6150**	**83.8**	**24.6 J**	44 U
South Area	SA-E17-E-NW (4-5)	4-5	28-Jan-2010	44.3 U	44.3 U	44.3 U	22.2 U	44.3 U	22.2 U	44.3 U	44.3 U	44.3 U	44.3 U	44.3 U	44.3 U	22.2 U	22.2 U	222 U	2220 U	**300**	22.2 U	**122**	**24.5**	**31.1**	22.2 U
South Area	SA-E17-E-WW	0-2	27-Jan-2010	9080 U	9080 U	9080 U	4540 U	9080 U	4540 U	9080 U	9080 U	9080 U	9080 U	9080 U	9080 U	4540 U	4540 U	45400 U	454000 U	**171000**	4540 U	**57100**	4540 U	**3170 J**	4540 U
South Area	SA-E17-E-WW (4-5)	4-5	28-Jan-2010	182 U	182 U	182 U	91 U	182 U	91 U	182 U	182 U	182 U	182 U	182 U	182 U	91 U	91 U	910 U	9100 U	**816**	91 U	**529**	**65.4 J**	**51.5 J**	91 U
South Area	SA-E17-E-WW10 (2.5-3.0)	2.5-3	09-Mar-2010	938 U	938 U	**1780**	469 U	938 U	469 U	938 U	938 U	938 U	938 U	938 U	938 U	469 U	469 U	4690 U	46900 U	**7130**	469 U	**3570**	**238 J**	**280 J**	469 U
South Area	SA-E17-E-WW10 (3.0-3.5)	3-3.5	09-Mar-2010	**1560**	**204 J**	**2680**	237 U	474 U	237 U	474 U	474 U	474 U	474 U	474 U	474 U	237 U	237 U	2370 U	23700 U	**2980**	237 U	**3250**	**551**	**222 J**	237 U
South Area	SA-E17-E-WW10 (4.0-4.5)	4.0-4.5	28-Apr-2010	22000 U	22000 U	22000 U	11000 U	22000 U	11000 U	22000 U	22000 U	22000 U	22000 U	22000 U	22000 U	11000 U	11000 U	110000 U	1100000 U	**178,000**	11000 U	**38,500**	**5,900 J**	**17,800**	11000 U
South Area	SA-E17-E-WW10 (4.5-5.0)	4.5-5.0	28-Apr-2010	22400 U	22400 U	22400 U	11200 U	22400 U	11200 U	22400 U	22400 U	22400 U	22400 U	22400 U	22400 U	11200 U	11200 U	112000 U	1120000 U	**638,000**	11200 U	**76,500**	**28,000**	**67,900**	11200 U
South Area	SA-E17-E-WW10 (5.0-6.0)	5.0-6.0	28-Apr-2010	227 U	227 U	227 U	113 U	227 U	113 U	227 U	227 U	227 U	227 U	227 U	227 U	113 U	113 U	1130 U	11300 U	1,040	113 U	**992**	277	**61.5 J**	113 U
South Area	SA-E17-E-WW10 (6-7)	6.0-7.0	6/7/2010	2380 U	2380 U	2380 U	1190 U	2380 U	1190 U	2380 U	2380 U	2380 U	2380 U	2380 U	2380 U	1190 U	1190 U	11900 U	119000 U	**12200**	1190 U	**7210**	**703 J**	**710 J**	1190 U
South Area	SA-E17-E-WW10 (7-8)	7.0-8.0	6/7/2010	241 U	241 U	241 U	121 U	241 U	121 U	241 U	241 U	241 U	241 U	241 U	241 U	121 U	121 U	1210 U	12100 U	**500**	121 U	**836**	**119 J**	**25.4 J**	121 U
South Area	SA-E17-E-WW10 (8-9)	8.0-9.0	6/7/2010	238 U	238 U	238 U	119 U	238 U	119 U	238 U	238 U	238 U	238 U	238 U	238 U	119 U	119 U	1190 U	11900 U	**42 J**	119 U	238 U	119 U	119 U	119 UE
South Area	SA-E17-E-WW10 (9-10)	9.0-10.0	6/7/2010	48.2 U	48.2 U	48.2 U	24.1 U	48.2 U	24.1 U	48.2 U	48.2 U	48.2 U	48.2 U	48.2 U	48.2 U	24.1 U	24.1 U	241 U	2410 U	24.1 U	24.1 U	48.2 U	24.1 U	24.1 U	24.1 U
South Area	SA-E17-E-WW10-(0-2)	0-2	03-Mar-2010	903 U	903 U	**215 J**	451 U	903 U	451 U	903 U	903 U	903 U	903 U	903 U	903 U	451 U	451 U	4510 U	45100 U	**6340**	451 U	**1920**	451 U	**203 J**	451 U
South Area	SA-E17-E-WW15 (10-11)	10.0-11.0	6/7/2010	45.5 U	45.5 U	45.5 U	22.8 U	45.5 U	22.8 U	45.5 U	45.5 U	45.5 U	45.5 U	45.5 U	45.5 U	22.8 U	22.8 U	228 U	2280 U	22.8 U	22.8 U	45.5 U	22.8 U	22.8 U	22.8 U
South Area	SA-E17-E-WW15 (4.0-4.5)	4.0-4.5	28-Apr-2010	243 J	102 J	890 U	445 U	890 U	445 U	890 U	890 U	890 U	890 U	890 U	890 U	445 U	445 U	4450 U	44500 U	**223000**	445 U	**33900**	**5600**	**13300**	445 U
South Area	SA-E17-E-WW15 (4.5-5.0)	4.5-5.0	28-Apr-2010	2260 U	2260 U	2260 U	1130 U	2260 U	1130 U	2260 U	2260 U	2260 U	2260 U	2260 U	2260 U	1130 U	1130 U	11300 U	113000 U	**14,700**	1130 U	**15,800**	**1,720**	**558 J**	1130 U
South Area	SA-E17-E-WW15 (5.0-6.0)	5.0-6.0	28-Apr-2010	23100 U	23100 U	23100 U	11500 U	23100 U	11500 U	23100 U	23100 U	23100 U	23100 U	23100 U	23100 U	11500 U	11500 U	115000 U	1150000 U	11500 U		**95,100**	**15,300**	**22,400**	11500 U
South Area	SA-E17-E-WW15 (7-8)	7.0-8.0	6/7/2010	46.1 U	46.1 U	46.1 U	23 U	46.1 U	23 U	46.1 U	46.1 U	46.1 U	46.1 U	46.1 U	46.1 U	23 U	23 U	230 U	2300 U	**45.7**	23 U	**117**	**9.02 J**	23 U	23 U
South Area	SA-E17-E-WW15 (8-9)	8.0-9.0	6/7/2010	50.7 U	50.7 U	50.7 U	25.3 U	50.7 U	25.3 U	50.7 U	50.7 U	50.7 U	50.7 U	50.7 U	50.7 U	25.3 U	25.3 U	253 U	2530 U	5.41 J	25.3 U	50.7 U	25.3 U	25.3 U	25.3 U
South Area	SA-E17-E-WW15 (9-10)	9.0-10.0	6/7/2010	44.1 U	44.1 U	44.1 U	22.1 U	44.1 U	22.1 U	44.1 U	44.1 U	44.1 U	44.1 U	44.1 U	44.1 U	22.1 U	22.1 U	221 U	2210 U	22.1 U	22.1 U	44.1 U	22.1 U	22.1 U	22.1 U
South Area	SA-E17-E-WW15-(0-2)	0-2	04-Mar-2010	891 U	**90.3 J**	**302 J**	445 U	891 U	445 U	891 U	891 U	891 U	891 U	891 U	891 U	445 U	445 U	4450 U	44500 U	**1150**	445 U	**6890**	**614**	445 U	445 U
South Area	SA-E17-E-WW20 (2.5-3.0)	2.5-3.0	28-Apr-2010	**690 J**	2250 U	**19,400**	1120 U	2250 U	1120 U	2250 U	2250 U	2250 U	2250 U	2250 U	2250 U	1120 U	1120 U	11200 U	112000 U	1120 U	1120 U	**797 J**	1120 U	1120 U	1120 U
South Area	SA-E17-E-WW20 (3.0-3.5)	3.0-3.5	28-Apr-2010	**93.3**	**47.1 J**	**333**	45.8 U	91.6 U	45.8 U	91.6 U	91.6 U	91.6 U	91.6 U	91.6 U	91.6 U	45.8 U	45.8 U	458 U	4580 U	**52.9**	45.8 U	**540**	**44.8 J**	**29.9 J**	45.8 U

TABLE 4-2 AOC-1 Soil Sampling Results

Soil Pesticide Data Summary - Southern Area (Rock Salt Warehouse)

Georgia Ports Authority, Bainbridge Terminal

		Proposed Site-Specific RRS Values (ug/kg):		*11,000*	*7,700*	*11,000*	*660*												*660*		*3,100*	*100*	*12,000*	
South Area	SA-E17-E-WW20 (3.5-4.0)	3.5-4.0	28-Apr-2010	2330 U	2330 U	2330 U	1160 U	2330 U	1160 U	2330 U	2330 U	2330 U	2330 U	2330 U	1160 U	1160 U	11600 U	116000 U	**16,400**	1160 U	**4,910**	**668 J**	**466 J**	1160 U
South Area	SA-E17-E-WW20 (4-5)	4.0-5.0	6/7/2010	45100 U	45100 U	45100 U	22600 U	45100 U	22600 U	45100 U	45100 U	45100 U	45100 U	45100 U	22600 U	22600 U	226000 U	2260000 U	**9620000**	22600 U	**1380000 J**	**69100**	**251000**	22600 U
South Area	SA-E17-E-WW20 (4-5)	4.0-5.0	6/10/2010	938 U	938 U	938 U	469 U	938 U	469 U	938 U	938 U	938 U	938 U	938 U	469 U	469 U	4690 U	46900 U	**18800**	469 U	**4520**	**2640**	**5850**	469 U
South Area	SA-E17-E-WW20 (5-6)	5.0-6.0	6/7/2010	2300 U	2300 U	2300 U	1150 U	2300 U	1150 U	2300 U	2300 U	2300 U	2300 U	2300 U	1150 U	1150 U	11500 U	115000 U	**9570**	1150 U	**10400**	**2800**	1150 U	1150 U
South Area	SA-E17-E-WW20 (6-7)	6.0-7.0	6/7/2010	2300 U	2300 U	2300 U	1150 U	2300 U	1150 U	2300 U	2300 U	2300 U	2300 U	2300 U	1150 U	1150 U	11500 U	115000 U	**12800**	1150 U	**4290**	**6730**	**766 J**	1150 U
South Area	SA-E17-E-WW20 (7-8)	7.0-8.0	6/7/2010	239 U	239 U	239 U	120 U	239 U	120 U	239 U	239 U	239 U	239 U	239 U	120 U	120 U	1200 U	12000 U	**819**	120 U	**265**	**723**	**119 J**	120 U
South Area	SA-E17-E-WW20(10-11)	10.0-11.0	6/8/2010	49.4 U	49.4 U	49.4 U	24.7 U	49.4 U	24.7 U	49.4 U	49.4 U	49.4 U	49.4 U	49.4 U	24.7 U	24.7 U	247 U	2470 U	24.7 U	24.7 U	49.4 U	24.7 U	24.7 U	24.7 U
South Area	SA-E17-E-WW20(11-12)	11.0-12.0	6/8/2010	49.4 U	49.4 U	49.4 U	24.7 U	49.4 U	24.7 U	49.4 U	49.4 U	49.4 U	49.4 U	49.4 U	24.7 U	24.7 U	247 U	2470 U	24.7 U	24.7 U	49.4 U	24.7 U	24.7 U	24.7 U
South Area	SA-E17-E-WW20(12-13)	12.0-13.0	6/8/2010	47.4 U	47.4 U	47.4 U	23.7 U	47.4 U	23.7 U	47.4 U	47.4 U	47.4 U	47.4 U	47.4 U	23.7 U	23.7 U	237 U	2370 U	23.7 U	23.7 U	47.4 U	23.7 U	23.7 U	23.7 U
South Area	SA-E17-E-WW20(5.0-6.0)	5.0-6.0	6/2/2010	236 U	236 U	236 U	118 U	236 U	118 U	236 U	236 U	236 U	236 U	236 U	118 U	118 U	1180 U	11800 U	**14000**	118 U	**2570**	**317**	**218**	118 U
South Area	SA-E17-E-WW20(8-9)	8.0-9.0	6/8/2010	48.3 U	48.3 U	48.3 U	24.1 U	48.3 U	24.1 U	48.3 U	48.3 U	48.3 U	48.3 U	48.3 U	24.1 U	24.1 U	241 U	2410 U	24.1 U	24.1 U	48.3 U	24.1 U	24.1 U	24.1 U
South Area	SA-E17-E-WW20(9-10)	9.0-10.0	6/8/2010	48 U	48 U	48 U	24 U	48 U	24 U	48 U	48 U	48 U	48 U	48 U	24 U	24 U	240 U	2400 U	24 U	24 U	48 U	24 U	24 U	24 U
South Area	SA-E17-E-WW25 (5-6)	5.0-6.0	6/7/2010	482 U	482 U	482 U	241 U	482 U	241 U	482 U	482 U	482 U	482 U	482 U	241 U	241 U	2410 U	24100 U	**1470**	241 U	**1960**	**6960**	**208 J**	241 U
South Area	SA-E17-E-WW25 (6-7)	6.0-7.0	6/7/2010	991 U	991 U	991 U	496 U	991 U	496 U	991 U	991 U	991 U	991 U	991 U	496 U	496 U	4960 U	49600 U	**5520**	496 U	**5150**	**10700**	**1510**	496 U
South Area	SA-E17-E-WW25 (7-8)	7.0-8.0	6/7/2010	104 U	104 U	104 U	52.2 U	104 U	52.2 U	104 U	104 U	104 U	104 U	104 U	52.2 U	52.2 U	522 U	5220 U	**692**	52.2 U	**196**	52.2 U	**29 J**	52.2 U
South Area	SA-E17-E-WW25 (8-9)	8.0-9.0	6/7/2010	50.8 U	50.8 U	50.8 U	25.4 U	50.8 U	25.4 U	50.8 U	50.8 U	50.8 U	50.8 U	50.8 U	25.4 U	25.4 U	254 U	2540 U	**5.81 J**	25.4 U	50.8 U	25.4 U	25.4 U	25.4 U
South Area	SA-E17-E-WW25(10-11)	10.0-11.0	6/8/2010	988 U	988 U	988 U	494 U	988 U	494 U	988 U	988 U	988 U	988 U	988 U	494 U	494 U	4940 U	49400 U	**227000**	494 U	**29700**	**5420**	**7910**	494 U
South Area	SA-E17-E-WW25(11-12)	11.0-12.0	6/8/2010	48.6 U	48.6 U	48.6 U	24.3 U	48.6 U	24.3 U	48.6 U	48.6 U	48.6 U	48.6 U	48.6 U	24.3 U	24.3 U	243 U	2430 U	**32.6**	24.3 U	**10.1 J**	**9.27 J**	24.3 U	24.3 U
South Area	SA-E17-E-WW25(12-13)	12.0-13.0	6/8/2010	49 U	49 U	49 U	24.5 U	49 U	24.5 U	49 U	49 U	49 U	49 U	49 U	24.5 U	24.5 U	245 U	2450 U	**67.6**	24.5 U	**34.3 J**	**20.8 J**	**6.86 J**	24.5 U
South Area	SA-E17-E-WW25(13-14)	13.0-14.0	6/8/2010	48.7 U	48.7 U	48.7 U	24.4 U	48.7 U	24.4 U	48.7 U	48.7 U	48.7 U	48.7 U	48.7 U	24.4 U	24.4 U	244 U	2440 U	**27.4**	24.4 U	**24.4 J**	**19.5 J**	**6.48 J**	24.4 U
South Area	SA-E17-E-WW25(2.5-3.0)	2.5-3.0	28-Apr-2010	**246**	**95.5 J**	**2790**	112 U	225 U	112 U	225 U	225 U	225 U	225 U	225 U	112 U	112 U	1120 U	11200 U	**219**	112 U	**1340**	**69.2 J**	**94.5 J**	112 U
South Area	SA-E17-E-WW25(3.0-3.5)	3.0-3.5	28-Apr-2010	**357**	**132 J**	**813**	115 U	230 U	115 U	230 U	230 U	230 U	230 U	230 U	115 U	115 U	1150 U	11500 U	**323**	115 U	**1400**	**73 J**	**72.6 J**	115 U
South Area	SA-E17-E-WW25(3.5-4.0)	3.5-4.0	28-Apr-2010	**231 J**	**73.5 J**	**68.1 J**	116 U	231 U	116 U	231 U	231 U	231 U	231 U	231 U	116 U	116 U	1160 U	11600 U	**2,660**	116 U	**2640**	**1,290**	**433**	116 U
South Area	SA-E17-E-WW25(4.0-5.0)	4.0-5.0	6/2/2010	224 U	224 U	224 U	112 U	224 U	112 U	224 U	224 U	224 U	224 U	224 U	112 U	112 U	1120 U	11200 U	**18800 J**	112 U	**2880**	**827**	**435**	112 U
South Area	SA-E17-E-WW25(5.0-6.0)	5.0-6.0	6/2/2010	238 U	238 U	238 U	119 U	238 U	119 U	238 U	238 U	238 U	238 U	238 U	119 U	119 U	1190 U	11900 U	**25500**	119 U	**3730**	**909**	**1300**	119 U
South Area	SA-E17-E-WW25(9-10)	9.0-10.0	6/8/2010	4550 U	4550 U	4550 U	2280 U	4550 U	2280 U	4550 U	4550 U	4550 U	4550 U	4550 U	2280 U	2280 U	22800 U	228000 U	**811000**	2280 U	**96900**	**20600**	**29300**	2280 U
South Area	SA-E17-E-WW30(10-11)	10.0-11.0	6/8/2010	109 U	109 U	109 U	54.6 U	109 U	54.6 U	109 U	109 U	109 U	109 U	109 U	54.6 U	54.6 U	546 U	5460 U	**3940**	54.6 U	**6790**	**404**	**559**	54.6 U
South Area	SA-E17-E-WW30(11-12)	11.0-12.0	6/8/2010	48.7 U	48.7 U	48.7 U	24.3 U	48.7 U	24.3 U	48.7 U	48.7 U	48.7 U	48.7 U	48.7 U	24.3 U	24.3 U	243 U	2430 U	**16.8 J**	24.3 U	**12.8 J**	24.3 U	24.3 U	24.3 U
South Area	SA-E17-E-WW30(12-13)	12.0-13.0	6/8/2010	49.9 U	49.9 U	49.9 U	24.9 U	49.9 U	24.9 U	49.9 U	49.9 U	49.9 U	49.9 U	49.9 U	24.9 U	24.9 U	249 U	2490 U	**4.73 J**	24.9 U	**12.3 J**	24.9 U	24.9 U	24.9 U
South Area	SA-E17-E-WW30(13-14)	13.0-14.0	6/8/2010	49.7 U	49.7 U	49.7 U	24.8 U	49.7 U	24.8 U	49.7 U	49.7 U	49.7 U	49.7 U	49.7 U	24.8 U	24.8 U	248 U	2480 U	24.8 U	24.8 U	49.7 U	24.8 U	24.8 U	24.8 U
South Area	SA-E17-E-WW30(2.5-3.0)	2.5-3.0	28-Apr-2010	**212 J**	**78.5 J**	**1930**	110 U	221 U	110 U	221 U	221 U	221 U	221 U	221 U	110 U	110 U	1100 U	11000 U	**135**	110 U	**549**	**31.6 J**	**37 J**	110 U
South Area	SA-E17-E-WW30(3.0-3.5)	3.0-3.5	28-Apr-2010	**71.4**	**51**	**201**	23.3 U	46.7 U	23.3 U	46.7 U	46.7 U	46.7 U	46.7 U	46.7 U	23.3 U	23.3 U	233 U	2330 U	**154**	23.3 U	**378**	**18.6 J**	**52**	23.3 U
South Area	SA-E17-E-WW30(3.5-4.0)	3.5-4.0	28-Apr-2010	**254**	**114 J**	**350**	116 U	231 U	116 U	231 U	231 U	231 U	47.8 J	231 U	116 U	116 U	40.8 J	11600 U	**908**	116 U	**1120**	**139**	**80.4 J**	116 U
South Area	SA-E17-E-WW30(4.0-5.0)	4.0-5.0	6/2/2010	223 U	223 U	223 U	112 U	223 U	112 U	223 U	223 U	223 U	223 U	223 U	112 U	112 U	1120 U	11200 U	**1240**	112 U	**575**	**192**	**90.2 J**	112 U
South Area	SA-E17-E-WW30(5.0-6.0)	5.0-6.0	6/2/2010	233 U	233 U	233 U	117 U	233 U	117 U	233 U	233 U	233 U	233 U	233 U	117 U	117 U	1170 U	11700 U	**14600**	117 U	**2460**	**884**	**753**	117 U
South Area	SA-E17-E-WW30(5-6)	5.0-6.0	6/7/2010	23100 U	23100 U	23100 U	11600 U	23100 U	11600 U	23100 U	23100 U	23100 U	23100 U	23100 U	11600 U	11600 U	116000 U	1160000 U	**4770000**	11600 U	**1180000**	**52700**	**147000**	11600 U
South Area	SA-E17-E-WW30(6.0-7.0)	6.0-7.0	6/2/2010	476 U	476 U	476 U	238 U	476 U	238 U	476 U	476 U	476 U	476 U	476 U	238 U	238 U	2380 U	23800 U	**80900**	238 U	**13700**	**2010**	**3640**	238 U
South Area	SA-E17-E-WW30(6-7)	6.0-7.0	6/7/2010	2310 U	2310 U	2310 U	1150 U	2310 U	1150 U	2310 U	2310 U	2310 U	2310 U	2310 U	1150 U	1150 U	11500 U	115000 U	**314000**	1150 U	**46500**	**10600**	**18600**	1150 U
South Area	SA-E17-E-WW30(7.0-8.0)	7.0-8.0	6/2/2010	50.4 U	50.4 U	50.4 U	25.2 U	50.4 U	25.2 U	50.4 U	50.4 U	50.4 U	50.4 U	50.4 U	25.2 U	25.2 U	252 U	2520 U	**120**	25.2 U	**33.9 J**	**6.51 J**	**9.64 J**	25.2 U
South Area	SA-E17-E-WW30(7-8)	7.0-8.0	6/7/2010	467 U	467 U	467 U	234 U	467 U	234 U	467 U	467 U	467 U	467 U	467 U	234 U	234 U	2340 U	23400 U	**7730**	234 U	**2010**	**2760**	**524**	234 U
South Area	SA-E17-E-WW30(8.0-9.0)	8.0-9.0	6/2/2010	49.7 U	49.7 U	49.7 U	24.9 U	49.7 U	24.9 U	49.7 U	49.7 U	49.7 U	49.7 U	49.7 U	24.9 U	24.9 U	249 U	2490 U	**27.9**	24.9 U	**7.88 J**	24.9 U	24.9 U	24.9 U
South Area	SA-E17-E-WW30(8-9)	8.0-9.0	6/7/2010	2430 U	2430 U	2430 U	1210 U	2430 U	1210 U	2430 U	2430 U	2430 U	2430 U	2430 U	1210 U	1210 U	12100 U	121000 U	**4290**	1210 U	**5410**	**11600**	**879 J**	1210 U
South Area	SA-E17-E-WW30(9-10)	9.0-10.0	6/8/2010	50900 U	50900 U	50900 U	25500 U	50900 U	25500 U	50900 U	50900 U	50900 U	50900 U	50900 U	25500 U	25500 U	255000 U	2550000 U	**172000**	25500 U	**52800**	**69900**	**191000**	25500 U
South Area	SA-E17-E-WW35(2-4)	2.0-4.0	6/7/2010	44.2 U	44.2 U	**357**	22.1 U	44.2 U	22.1 U	44.2 U	44.2 U	44.2 U	44.2 U	44.2 U	22.1 U	22.1 U	221 U	2210 U	**254**	22.1 U	**6500**	**92.9**	**93.1**	22.1 U
South Area	SA-E17-E-WW35(4-6)	4.0-6.0	6/7/2010	48.2 U	48.2 U	48.2 U	24.1 U	48.2 U	24.1 U	48.2 U	48.2 U	48.2 U	48.2 U	48.2 U	24.1 U	24.1 U	241 U	2410 U	**42.5**	24.1 U	**22 J**	**9.76 J**	**6.98 J**	24.1 U
South Area	SA-E17-E-WW35(6-8)	6.0-8.0	6/7/2010	9620 U	9620 U	9620 U	4810 U	9620 U	4810 U	9620 U	9620 U	9620 U	9620 U	9620 U	4810 U	4810 U	48100 U	481000 U	**1350000**	4810 U	**313000 J**	**22500**	**52500**	4810 U
South Area	SA-E17-E-WW35(8-10)	8.0-10.0	6/7/2010	49.1 U	49.1 U	49.1 U	24.5 U	49.1 U	24.5 U	49.1 U	49.1 U	49.1 U	49.1 U	49.1 U	24.5 U	24.5 U	245 U	2450 U	**6.19 J**	24.5 U	**88**	24.5 U	24.5 U	24.5 U
South Area	SA-E17-E-WW40(2-4)	2.0-4.0	6/7/2010	213 U	213 U	213 U	107 U	213 U	107 U	213 U	213 U	213 U	213 U	213 U	107 U	107 U	1070 U	10700 U	**822**	107 U	**115000**	**1010**	**270**	107 U
South Area	SA-E17-E-WW40(4-6)	4.0-6.0	6/7/2010	**340**	**136**	**2910**	22.1 U	44.3 U	22.1 U	44.3 U	44.3 U	44.3 U	44.3 U	44.3 U	22.1 U	22.1 U	221 U	876 J	**219**	22.1 U	**4700**	**85**	**107**	22.1 U
South Area	SA-E17-E-WW40(6-8)	6.0-8.0	6/7/2010	2270 U	2270 U	2270 U	1130 U	2270 U	1130 U	2270 U	2270 U	2270 U	2270 U	2270 U	1130 U	1130 U	11300 U	113000 U	**17700**	1130 U	**8810**	**38600**	**2430**	1130 U
South Area	SA-E17-E-WW40(8-10)	8.0-10.0	6/7/2010	48.3 U	48.3 U	48.3 U	24.1 U	48.3 U	24.1 U	48.3 U	48.3 U	48.3 U	48.3 U	48.3 U	24.1 U	24.1 U	241 U	2410 U	**9.44 J**	24.1 U	48.3 U	24.1 U	24.1 U	24.1 U
South Area	SA-E17-E-WW45(2-4)	2.0-4.0	6/7/2010	426000 U	426000 U	426000 U	213000 U	426000 U	213000 U	426000 U	426000 U	426000 U	426000 U	426000 U	213000 U	213000 U	2130000 U	21300000 U	**1310000**	213000 U	**296000 J**	213000 U	**46700 J**	213000 U
South Area	SA-E17-E-WW45(4-6)	4.0-6.0	6/7/2010	943000 U	943000 U	943000 U	471000 U	943000 U	471000 U	943000 U	943000 U	943000 U	943000 U	943000 U	471000 U	471000 U	4710000 U	47100000 U	**7830000**	471000 U	**1310000**	471000 U	**289000 J**	471000 U
South Area	SA-E17-E-WW45(6-8)	6.0-8.0	6/7/2010	2330 U	2330 U	2330 U	1170 U	2330 U	1170 U	2330 U	2330 U	2330 U	2330 U	2330 U	1170 U	1170 U	11700 U	117000 U	**5090**	1170 U	**7120**	**442 J**	1170 U	213000 U
South Area	SA-E17-E-WW45(8-10)	8.0-10.0	6/7/2010	47.7 U	47.7 U	47.7 U	23.9 U	47.7 U	23.9 U	47.7 U	47.7 U	47.7 U	47.7 U	47.7 U	23.9 U	23.9 U	239 U	2390 U	**184**	23.9 U	**94.6**	**8.88 J**	**19 J**	23.9 U
South Area	SA-E17-E-WW5 (10-11)	10.0-11.0	6/7/2010	47.8 U	47.8 U	47.8 U	23.9 U	47.8 U	23.9 U	47.8 U	47.8 U	47.8 U	47.8 U	47.8 U	23.9 U	23.9 U	239 U	2390 U	23.9 U	23.9 U	**18.5 J**	23.9 U	23.9 U	23.9 U
South Area	SA-E17-E-WW5 (7-8)	7.0-8.0	6/7/2010	903 U	903 U	903 U	451 U	903 U	451 U	903 U	903 U	903 U	903 U	903 U	451 U	451 U	4510 U	45100 U	**2180**	451 U	**2980**	**625**	**367 J**	451 U
South Area	SA-E17-E-WW5 (8-9)	8.0-9.0	6/7/2010	49.8 U	49.8 U	49.8 U	24.9 U	49.8 U	24.9 U	49.8 U	49.8 U	49.8 U	49.8 U	49.8 U	24.9 U	24.9 U	249 U	2490 U	24.9 U	24.9 U	49.8 U	24.9 U	24.9 U	24.9 U
South Area	SA-E17-E-WW5 (9-10)	9.0-10.0	6/7/2010	2220 U	2220 U	2220 U	1110 U	2220 U	1110 U	2220 U	2220 U	2220 U	2220 U	2220 U	1110 U	1110 U	11100 U	111000 U	**6050**	1110 U	**4810**	**745 J**	**476 J**	1110 U
South Area	SA-E17-E-WW5-(0-2)	0-2	03-Mar-2010	45000 U	45000 U	45000 U	22500 U	45000 U	22500 U	45000 U	45000 U	45000 U	45000 U	45000 U	22500 U	22500 U	225000 U	2250000 U	**1750000**	22500 U	**229000**	**17900 J**	**62400**	22500 U
South Area	SA-E17-E-WW5(4.0-4.5)	4.0-4.5	28-Apr-2010	2300 U	2300 U	2300 U	1150 U	2300 U	1150 U	2300 U	2300 U	2300 U	2300 U	2300 U	1150 U	1150 U	11500 U	115000 U	**73,900**	1150 U	**17,100**	**2,660**	**4,160**	1150 U
South Area	SA-E17-E-WW5(4.5-5.0)	4.5-5.0	28-Apr-2010	46.8 U	46.8 U	46.8 U	23.4 U	46.8 U	23.4 U	46.8 U	46.8 U	46.8 U	46.8 U	46.8 U	23.4 U	23.4 U	234 U	2340 U	**87.3**	23.4 U	**143**	**16.6 J**	23.4 U	23.4 U
South Area	SA-E17-E-WW5(5.0-6.0)	5.0-6.0	28-Apr-2010	225 U	225 U	225 U	113 U	225 U	113 U	225 U	225 U	225 U	225 U	225 U	113 U	113 U	1130 U	11300 U	**1,460**	113 U	**1,130**	**405**	**323**	113 U
South Area	SA-E17-F-EW (4-5)	4-5	28-Jan-2010	44.4 U	44.4 U	44.4 U	22.2 U	44.4 U	22.2 U	44.4 U	44.4 U	44.4 U	44.4 U	44.4 U	22.2 U	22.2 U	222 U	2220 U	**15.5 J**	22.2 U	**31.1 J**	22.2 U	22.2 U	22.2 U
South Area	SA-E17-F-F (2-4)	2.0-4.0	6/9/2010	42.6 U	42.6 U	42.6 U	21.3 U	42.6 U	21.3 U	42.6 U	42.6 U	42.6 U	42.6 U	42.6 U	21.3 U	21.3 U	213 U	2130 U	21.3 U	21.3 U	42.6 U	21.3 U	21.3 U	21.3 U

TABLE 4-2 AOC-1 Soil Sampling Results

Soil Pesticide Data Summary - Southern Area (Rock Salt Warehouse)

Georgia Ports Authority, Bainbridge Terminal

			Proposed Site-Specific RRS Values (ug/kg):	***11,000***	***7,700***	***11,000***	***660***													***660***		***3,100***	***100***	***12,000***	
South Area	SA-E17-F-F (4-6)	4.0-6.0	6/9/2010	42 U	42 U	42 U	21 U	42 U	21 U	42 U	42 U	42 U	42 U	42 U	21 U	21 U	210 U	2100 U	21 U	21 U	42 U	21 U	21 U	21 U
South Area	SA-E17-F-F (6-8)	8.0-10.0	6/9/2010	41.9 U	41.9 U	41.9 U	21 U	41.9 U	21 U	41.9 U	41.9 U	41.9 U	41.9 U	41.9 U	21 U	21 U	210 U	2100 U	21 U	21 U	41.9 U	21 U	21 U	21 U
South Area	SA-E17-F-SW	0-2	27-Jan-2010	911 U	911 U	911 U	456 U	911 U	456 U	911 U	911 U	911 U	911 U	911 U	456 U	456 U	4560 U	45600 U	**3130**	456 U	**4240**	**456 U**	**97.1 J**	456 U
South Area	SA-E17-F-SW10(0-2)	0-2	10-Mar-2010	**60.8 J**	447 U	**279 J**	223 U	447 U	223 U	447 U	447 U	447 U	447 U	447 U	223 U	223 U	2230 U	22300 U	**180 J**	223 U	**2980**	**75.8 J**	**69.9 J**	223 U
South Area	SA-E17-F-SW15(0-2)	0-2	10-Mar-2010	228 U	228 U	**125 J**	114 U	228 U	114 U	228 U	228 U	228 U	228 U	228 U	114 U	114 U	1140 U	11400 U	**260**	114 U	**1820**	**113 J**	**52.5 J**	114 U
South Area	SA-E17-F-SW5(0-2)	0-2	10-Mar-2010	909 U	909 U	**194 J**	455 U	909 U	455 U	909 U	909 U	909 U	909 U	909 U	455 U	455 U	4550 U	45500 U	**1250**	455 U	**5930**	**217 J**	**99.2 J**	455 U
South Area	SA-E17-F-SWF(2.5-3.0)	2.5-3	10-Mar-2010	233 U	233 U	**93.2 J**	116 U	233 U	116 U	233 U	233 U	233 U	233 U	233 U	116 U	116 U	1160 U	11600 U	**155**	116 U	**1400**	116 U	**47.2 J**	116 U
South Area	SA-E17-F-SWF(3.0-3.5)	3-3.5	10-Mar-2010	465 U	465 U	**141 J**	233 U	465 U	233 U	465 U	465 U	465 U	465 U	465 U	233 U	233 U	2330 U	23300 U	**328**	233 U	**2460**	233 U	**137 J**	233 U
South Area	SA-E17-G(2.5-3.0)-F	2.5-3	01-Mar-2010	22100 U	22100 U	22100 U	11100 U	22100 U	11100 U	22100 U	22100 U	22100 U	22100 U	22100 U	11100 U	11100 U	111000 U	1110000 U	**437000**	11100 U	**39300**	**4350 J**	**13800**	11100 U
South Area	SA-E17-G-DUP	N/A	22-Apr-2010	45.3 U	45.3 U	45.3 U	22.6 U	45.3 U	22.6 U	45.3 U	45.3 U	45.3 U	45.3 U	45.3 U	22.6 U	22.6 U	226 U	2260 U	**6.31 J**	22.6 U	**80.4**	**19.4 J**	22.6 U	22.6 U
South Area	SA-E17-G-F	2	27-Jan-2010	4480 U	4480 U	4480 U	2240 U	4480 U	2240 U	4480 U	4480 U	4480 U	4480 U	4480 U	2240 U	2240 U	22400 U	224000 U	2240 U	2240 U	**25900**	2240 U	2240 U	2240 U
South Area	SA-E17-G-F(3.5-4.0)	3.5-4.0	22-Apr-2010	46.9 U	46.9 U	46.9 U	23.5 U	46.9 U	23.5 U	46.9 U	46.9 U	46.9 U	46.9 U	46.9 U	23.5 U	23.5 U	235 U	2350 U	**90.5**	23.5 U	**104**	**74.4**	**20.8 J**	23.5 U
South Area	SA-E17-G-F(4.0-4.5)	4.0-4.5	22-Apr-2010	45.8 U	45.8 U	45.8 U	22.9 U	45.8 U	22.9 U	45.8 U	45.8 U	45.8 U	45.8 U	45.8 U	22.9 U	22.9 U	229 U	2290 U	**5.14 J**	22.9 U	**93.4**	**20.7 J**	22.9 U	22.9 U
South Area	SA-E17-G-F(4.0-5.0)	4.0-5.0	29-Apr-2010	46.7 U	46.7 U	46.7 U	23.3 U	46.7 U	23.3 U	46.7 U	46.7 U	46.7 U	46.7 U	46.7 U	23.3 U	23.3 U	233 U	2330 U	23.3 U	23.3 U	**16.4 J**	23.3 U	23.3 U	23.3 U
South Area	SA-E17-H-EW	0-2	27-Jan-2010	222 U	222 U	**87.1 J**	111 U	222 U	111 U	222 U	222 U	222 U	222 U	222 U	111 U	111 U	1110 U	11100 U	**1050**	111 U	**1790**	**179**	**67 J**	111 U
South Area	SA-E17-H-F (2-4)	2.0-4.0	6/9/2010	40.8 U	40.8 U	40.8 U	20.4 U	40.8 U	20.4 U	40.8 U	40.8 U	40.8 U	40.8 U	40.8 U	20.4 U	20.4 U	204 U	2040 U	20.4 U	20.4 U	**6.59 J**	20.4 U	20.4 U	20.4 U
South Area	SA-E17-H-F (4-6)	4.0-6.0	6/9/2010	41.9 U	41.9 U	41.9 U	20.9 U	41.9 U	20.9 U	41.9 U	41.9 U	41.9 U	41.9 U	41.9 U	20.9 U	20.9 U	209 U	2090 U	20.9 U	20.9 U	41.9 U	20.9 U	20.9 U	20.9 U
South Area	SA-E17-H-F (6-8)	6.0-8.0	6/9/2010	42 U	42 U	42 U	21 U	42 U	21 U	42 U	42 U	42 U	42 U	42 U	21 U	21 U	210 U	2100 U	21 U	21 U	**5.52 J**	21 U	21 U	21 U
South Area	SA-E17-H-SW	0-2	27-Jan-2010	**826**	**89.2 J**	**6950**	226 U	451 U	226 U	451 U	451 U	451 U	451 U	451 U	226 U	226 U	2260 U	22600 U	**50.2 J**	226 U	**1370**	226 U	226 U	226 U
South Area	SA-E17-H-SW (4-5)	4-5	28-Jan-2010	87.9 U	87.9 U	87.9 U	44 U	87.9 U	44 U	87.9 U	87.9 U	87.9 U	87.9 U	87.9 U	44 U	44 U	440 U	4400 U	**189**	44 U	**4550**	44 U	**38.8 J**	44 U
South Area	SA-E17-H-WW	0-2	27-Jan-2010	**78.8**	**49.8**	**381**	22.3 U	44.7 U	22.3 U	44.7 U	44.7 U	44.7 U	44.7 U	44.7 U	22.3 U	22.3 U	223 U	2230 U	**79.2**	22.3 U	**464**	**18.1 J**	**21.5 J**	22.3 U
South Area	SA-E17-I(2.5-3.0)-F	2.5-3	01-Mar-2010	**47.1 J**	**19.5 J**	**47.1 J**	45.9 U	91.8 U	45.9 U	91.8 U	91.8 U	91.8 U	91.8 U	91.8 U	45.9 U	45.9 U	459 U	4590 U	**184**	45.9 U	**1720**	**115**	**24.1 J**	45.9 U
South Area	SA-E17-I-DUP	N/A	22-Apr-2010	48.4 U	48.4 U	48.4 U	24.2 U	48.4 U	24.2 U	48.4 U	48.4 U	48.4 U	48.4 U	48.4 U	24.2 U	24.2 U	242 U	2420 U	24.2 U	24.2 U	**15.8 J**	24.2 U	24.2 U	24.2 U
South Area	SA-E17-I-F	2	27-Jan-2010	4320 U	4320 U	945 J	2160 U	4320 U	2160 U	4320 U	4320 U	4320 U	4320 U	4320 U	2160 U	2160 U	21600 U	216000 U	**25000**	2160 U	**19600**	**1200 J**	**804 J**	2160 U
South Area	SA-E17-I-F(3.5-4.0)	3.5-4.0	22-Apr-2010	46.7 U	46.7 U	46.7 U	23.4 U	46.7 U	23.4 U	46.7 U	46.7 U	46.7 U	46.7 U	46.7 U	23.4 U	23.4 U	234 U	2340 U	23.4 U	23.4 U	**36.5 J**	23.4 U	23.4 U	23.4 U
South Area	SA-E17-I-F(4.0-4.5)	4.0-4.5	22-Apr-2010	47.9 U	47.9 U	47.9 U	23.9 U	47.9 U	23.9 U	47.9 U	47.9 U	47.9 U	47.9 U	47.9 U	23.9 U	23.9 U	239 U	2390 U	23.9 U	23.9 U	**17.4 J**	23.9 U	23.9 U	23.9 U
South Area	SA-E17-I-F(4.5-5.0)	4.5-5.0	29-Apr-2010	47.5 U	47.5 U	47.5 U	23.7 U	47.5 U	23.7 U	47.5 U	47.5 U	47.5 U	47.5 U	47.5 U	23.7 U	23.7 U	237 U	2370 U	23.7 U	23.7 U	47.5 U	23.7 U	23.7 U	23.7 U
South Area	SA-E17-I-SW	0-2	27-Jan-2010	**37.2 J**	266 U	**143 J**	133 U	266 U	133 U	266 U	266 U	266 U	266 U	266 U	133 U	133 U	1330 U	13300 U	**146**	133 U	**1860**	**43.8 J**	**46.5 J**	133 U
South Area	SA-E17-I-WW	0-2	27-Jan-2010	4930 U	4930 U	4930 U	2460 U	4930 U	2460 U	4930 U	4930 U	4930 U	4930 U	4930 U	2460 U	2460 U	24600 U	246000 U	**24600**	2460 U	**7540**	2460 U	2460 U	2460 U
South Area	SA-E17-PIT-F (5-6)	5-6	02-Mar-2010	91.9 U	91.9 U	91.9 U	45.9 U	91.9 U	45.9 U	91.9 U	91.9 U	91.9 U	91.9 U	91.9 U	45.9 U	45.9 U	459 U	4590 U	**53.2**	45.9 U	91.9 U	45.9 U	45.9 U	45.9 U
South Area	SA-E17-PIT-SW (3.5-4.0)	3.5-4.0	29-Apr-2010	50.1 U	50.1 U	50.1 U	25.1 U	50.1 U	25.1 U	50.1 U	50.1 U	50.1 U	50.1 U	50.1 U	25.1 U	25.1 U	251 U	2510 U	**26.7**	25.1 U	50.1 U	25.1 U	**38.1**	25.1 U
Sorth Area	SA-E17-PIT-SW (3-4)	3-4	03-Mar-2010	963 U	963 U	963 U	482 U	963 U	482 U	963 U	963 U	963 U	963 U	963 U	482 U	482 U	4820 U	48200 U	**2100**	482 U	**4590**	**459 J**	**387 J**	482 U
South Area	SA-E17-PIT-SW(4.0-4.5)	4.0-4.5	29-Apr-2010	43.1 U	43.1 U	**14.1 J**	21.5 U	43.1 U	21.5 U	43.1 U	43.1 U	43.1 U	43.1 U	43.1 U	21.5 U	21.5 U	215 U	2150 U	**226**	21.5 U	**685**	**111**	**151**	21.5 U
South Area	SA-E17-PIT-SW(4.5-5.0)	4.5-5.0	29-Apr-2010	44.1 U	44.1 U	44.1 U	22.1 U	44.1 U	22.1 U	44.1 U	44.1 U	44.1 U	44.1 U	44.1 U	22.1 U	22.1 U	221 U	2210 U	22.1 U	22.1 U	44.1 U	22.1 U	22.1 U	22.1 U
South Area	SA-E17-PIT-SW(5.5-6.0)	5.5-6.0	29-Apr-2010	52.7 U	52.7 U	52.7 U	26.3 U	52.7 U	26.3 U	52.7 U	52.7 U	52.7 U	52.7 U	52.7 U	26.3 U	26.3 U	263 U	2630 U	26.3 U	26.3 U	52.7 U	26.3 U	26.3 U	26.3 U
South Area	SA-E17-PIT-SW(5-6)	5.0-6.0	26-Apr-2010	225 U	225 U	225 U	113 U	225 U	113 U	225 U	225 U	225 U	225 U	225 U	113 U	113 U	1130 U	11300 U	113 U	113 U	225 U	113 U	113 U	113 U
South Area	SA-E17-PIT-SW(6-7)	6.0-7.0	26-Apr-2010	45.9 U	45.9 U	45.9 U	22.9 U	45.9 U	22.9 U	45.9 U	45.9 U	45.9 U	45.9 U	45.9 U	22.9 U	22.9 U	229 U	2290 U	22.9 U	22.9 U	45.9 U	22.9 U	22.9 U	22.9 U
South Area	SA-E17-PIT-SW(7-8)	7.0-8.0	26-Apr-2010	47.2 U	47.2 U	47.2 U	23.6 U	47.2 U	23.6 U	47.2 U	47.2 U	47.2 U	47.2 U	47.2 U	23.6 U	23.6 U	236 U	2360 U	23.6 U	23.6 U	**23.7 J**	23.6 U	23.6 U	23.6 U
South Area	SA-E17-PIT-WW(3-4)	3-4	02-Mar-2010	500 U	500 U	500 U	250 U	500 U	250 U	500 U	500 U	500 U	500 U	500 U	250 U	250 U	2500 U	25000 U	**797**	250 U	**2660**	**127 J**	**89.9 J**	250 U
South Area	SA-E17-PIT-WW(4.0-4.5)	4.0-4.5	23-Apr-2010	444 U	444 U	109 J	222 U	444 U	222 U	444 U	444 U	444 U	444 U	444 U	222 U	222 U	2220 U	22200 U	**3550**	222 U	2230	**373**	902	222 U
South Area	SA-E17-PIT-WW(4.5-5.0)	4.5-5.0	23-Apr-2010	948 U	948 U	948 U	474 U	948 U	474 U	948 U	948 U	948 U	948 U	948 U	474 U	474 U	4740 U	47400 U	**5640**	474 U	1710	**326 J**	612	474 U
South Area	SA-E17-PIT-WW(4.5-5.0)	4.5-5.0	29-Apr-2010	518 U	518 U	**201 J**	259 U	518 U	259 U	518 U	518 U	518 U	518 U	518 U	259 U	259 U	2590 U	25900 U	**3,750**	259 U	**1440**	**390**	**557**	259 U
South Area	SA-E17-PIT-WW(5.0-5.5)	5.0-5.5	29-Apr-2010	45.3 U	45.3 U	45.3 U	22.7 U	45.3 U	22.7 U	45.3 U	45.3 U	45.3 U	45.3 U	45.3 U	22.7 U	22.7 U	227 U	2270 U	**14.8 J**	22.7 U	45.3 U	22.7 U	22.7 U	22.7 U
South Area	SA-E17-PIT-WW(5.5-6.0)	5.5-6.0	29-Apr-2010	48.4 U	48.4 U	48.4 U	24.2 U	48.4 U	24.2 U	48.4 U	48.4 U	48.4 U	48.4 U	48.4 U	24.2 U	24.2 U	242 U	2420 U	24.2 U	24.2 U	48.4 U	24.2 U	24.2 U	24.2 U
South Area	SA-E17-PIT-WW(6.0-7.0)	6.0-7.0	29-Apr-2010	50.8 U	50.8 U	50.8 U	25.4 U	50.8 U	25.4 U	50.8 U	50.8 U	50.8 U	50.8 U	50.8 U	25.4 U	25.4 U	254 U	2540 U	25.4 U	25.4 U	50.8 U	25.4 U	25.4 U	25.4 U

Notes:

Unless otherwise stated, all concentrations are reported in micrograms per kilogram (ug/Kg).

Bold values indicate detection either above the Method Detection Limit (MDL) or less than or more than the Reporting Limit (RL). If concentrations are reported at less than the RL, the value is accompanied by a "J" qualifier.

Bolded, italicized values indicate detection above the proposed Site-Specific Risk Reduction Standards (RRS).

J = Concentration detected at or above the MDL.

Toxaphene does not have a site-specific RRS value but the highlighted value is above the GA EPD notification concentration.

Table 4-3: AOC-3 Soil Pesticides Data Summary Table

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 4-4: Historical Groundwater Analytical Results

	Test 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	
Site-Specific RRS Values		**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**	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag
MW-1	4/15/2008	0.010	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	**0.00462**	J	0.102	U	0.051	U	0.102	U	0.051	U	0.102	U	0.051	U	0.102	U	0.051	U	0.51	U	0.051	U	0.051	U	0.102	U	5.1	U
	8/5/2009	**0.095**		**0.113**		0.051	U	**0.065**		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
	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00722	U	0.00742	U	0.00722	U	0.01320	U	0.0105	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
	3/25/2014	0.003	U	0.00232	U	0.00131	U	0.00169	U	0.00551	U	0.00323	U	0.00142	U	0.00099	U	0.001500	U	0.00598	U	0.00144	U	0.00175	U	0.00298	U	0.00115	U	0.03430	U	0.00176	U	0.00341	U	0.00484	U	0.00326	U	0.00141	U	0.0762	U
	9/4/2014	**0.0343**	J	**0.231**		0.002	U	**0.0362**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	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
	3/3/2015	0.0101	U	0.0023	UF	0.002	UF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
MW-1A	9/1/2001	0.100	U	0.1	U	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	0.010	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	0.051	U	0.051	U	0.51	U
	8/5/2009	**0.092**		**0.158**		0.051	U	**0.063**		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
	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00711	U	0.00731	U	0.00711	U	0.01300	U	0.0104	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
	3/25/2014	0.003	U	0.00237	U	0.00134	U	0.00173	U	0.00562	U	0.00329	U	0.00145	U	0.00101	U	0.001530	U	0.0061	U	0.00147	U	0.00179	U	0.00304	U	0.00117	U	0.03500	U	0.0018	U	0.00347	U	0.00494	U	0.00333	U	0.00144	U	0.0777	U
	9/4/2014	**0.0234**	J	**0.161**		**0.0046**	J	**0.0213**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/3/2015	0.0101	U	**0.0214**	JF	0.002	UF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
MW-2	4/16/2008	0.010	U	**0.0099**	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	0.51	U
	7/14/2011	0.050	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00711	U	0.00731	U	0.00711	U	0.01300	U	0.0104	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	0.01040	U	0.0107	U	0.00822	U	0.00711	U	0.00822	U	0.00731	U	0.00508	U
	3/25/2014	0.003	U	0.00231	U	0.00131	U	0.00168	U	0.00548	U	0.00321	U	0.00142	U	0.00099	U	0.001490	U	0.00595	U	0.00143	U	0.00175	U	0.00269	U	0.00115	U	0.03420	U	0.00176	U	0.00339	U	0.00482	U	0.00324	U	0.00141	U	0.0758	U
	9/3/2014	0.0101	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/2/2015	0.0101	U	0.0023	UF	0.002	UF	0.0016	U	0.00290	U	0.0026	U	0.00208	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.02200	U	0.00450	UF	0.423	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		NS	
	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.009	U	0.00824	U	0.00847	U	0.00824	U	0.01510	U	0.012	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
	3/25/2014	0.003	U	0.00235	U	0.00133	U	0.00171	U	0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.001510	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	U
	9/4/2014	0.0101	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	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
	3/3/2015	0.0101	U	0.0023	UF	0.002	UF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
MW-4U	9/1/2001	0.100	U	0.1	U	**0.1**	U	0.1	U	NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	U
	4/15/2008	0.010	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.52	U
	8/5/2009	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.101	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	U
	3/28/2013	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00788	U	0.008	U	0.00778	U	0.01420	U	0.0113	U	0.00922	U	0.00878	U	0.00050	U	0.009	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
	3/25/2014	0.003	U	0.00235	U	0.00133	U	0.00171	U	0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	U
	9/4/2014	0.0101	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	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
	3/3/2015	0.0101	U	0.0023	UF	0.002	UF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
MW-5A	4/16/2008	**0.120**		**2.4**		**0.63**		**0.04**	J	0.051	U	**0.023**	J	0.051	U	0.051	U	**2.7**		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	**0.14**		0.51	U
	8/4/2009	**0.510**	J	**18**		**2.2**		**0.155**	J	1.01	U	1.01	U	1.01	U	1.01	U	1.70	U	2.02	U	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	1.01	U	**0.340**	J	101	U
	7/15/2011	**0.130**		**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	0.208	U	1.04	U	0.208	U	0.104	U	0.104	U	0.208	U	10.4	U
	4/6/2012	**0.430**	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	**0.100**		**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	0.010	U	**0.389**		0.002	U	0.0016	U	0.00290	U	**0.0286**	J	**0.236**		0.00240	U	**2.75**	D	0.0035	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	0.009	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
	3/26/2014	**0.239**		0.00232	U	**0.668**		**0.24**		0.00551	U	0.0747	U	0.00142	U	0.00099	U	0.0015	U	0.00598	U	0.00144	U	0.00175	U	0.00298	U	0.00115	U	0.03430	U	0.00176	U	0.00341	U	0.00484	U	0.00326	U	0.244	U	0.0762	U
	9/5/2014	**0.322**		**7.47**	D	**1.01**	D	**0.298**		0.00290	U	**0.0787**		0.00280	U	0.00240	U	**1.99**	D	0.0035	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	**0.235**		0.423	U
	3/3/2015	**0.062**		**1.63**	DF	**0.255**	F	**0.0545**		0.00290	U	**0.0219**		0.00280	U	0.00240	U	**1.80**		0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	**0.070**	J	0.423	U
MW-5D	7/1/2001	**1.000**		**8.7**		**3.7**		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/15/2008	**0.190**		**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	**1.180**	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	**0.500**	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	**0.660**		**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	**0.720**		**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	0.0098	U	0.0049	U	0.0049	U	0.0098	U	0.98	U
	3/26/2013	0.002	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	0.010	U	**0.12**		0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.012	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
	3/26/2014	0.003	U	0.00232	U	0.00131	U	0.00169	U	0.00551	U	0.00323	U	0.00141	U	0.00099	U	0.002	U	0.00598	U	0.00144	U	0.00175	U	0.00298	U	0.00115	U	0.03430	U	0.00176	U	0.00341	U	0.00484	U	0.00326	U	0.00141	U	0.0762	U
	9/3/2014	**0.352**		**18.2**	D	**1.93**	J	**0.383**		0.00287	U	0.00257	U	0.00277	U	0.00238	U	**0.360**		0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.00285	U	0.00851	U	0.00178	U	0.00218	U	**0.0541**	J	0.419	U
	3/5/2015	**0.145**		**4.47**	DF	**1.77**	J	**0.143**		0.00290	U	0.00260	U	0.00280	U	0.00240	U	**0.080**	J	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	**0.0204**	JF	0.423	U

Table 4-4: Historical Groundwater Analytical Results

	Test 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	
Site-Specific RRS Values		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**	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag
MW-6	9/1/2001	1.840		1.39		2.22		0.31		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/1/2002	1.200		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	1.700		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	2.360		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	2.500		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	1.400		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	1.400	*	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	1.290		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	1.230		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	1.510	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	0.0035	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	1.680		1.67		2.71	DX	0.035		0.0142	U	0.0113	U	0.00922	U	0.00878	U	0.000522	J	0.009	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	0.008	U	0.00556	U
	3/26/2014	0.797		1.16		1.98		0.00173	U	0.00562	U	0.00329	U	0.00145	U	0.00101	U	0.00153	U	0.0061	U	0.00147	U	0.00179	U	0.00304	U	0.00117	U	0.03500	U	0.0018	U	0.00347	U	0.00494	U	0.00333	U	0.00144	U	0.0777	U
	9/8/2014	0.907	D	1.15	D	1.81	D	0.00158	U	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/4/2015	0.348		0.594	F	1.17	DF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
MW-7	9/1/2001	20.510		3.23		1.35		2.66		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	6/1/2002	4.300		1.2		1		1.3		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/14/2008	0.580		0.4		0.021	J	0.032	J	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.52	U
	8/5/2009	0.137		0.564		0.051	U	0.129		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	0.051	U	0.00823	J	0.101	U	5.05	U
	3/27/2013	0.030	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	0.002	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	0.061		0.365		0.002	U	0.0332	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.023		0.31		0.0126	J	0.0487		0.01420	U	0.0113	U	0.00922	U	0.00878	U	0.00184	J	0.009	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	0.008	U	0.00556	U
	3/26/2014	0.018		0.264		0.00133	U	0.034		0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/3/2014	0.0364	J	0.409		0.00198	U	0.0660		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/4/2015	0.0101	U	0.427	F	0.0132	JF	0.0334	J	0.00290	U	0.0026	U	0.00280	U	0.00430	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
MW-8	9/2/2001	0.100	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	0.310		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	0.210		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	0.032	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	0.0026	U	0.00280	U	0.00240	U	0.00961	J	0.0035	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	0.0113	U	0.00922	U	0.00878	U	0.0101	J	0.009	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	0.008	U	0.00556	U
	3/26/2014	0.061		0.829		0.0899		0.0392		0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/8/2014	0.179		1.31	D	0.272		0.145		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.0148	J	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/5/2015	0.013	J	0.542	F	0.0231	JF	0.0108	J	0.00180	U	0.0026	U	0.00280	U	0.00240	U	0.0071	J	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
MW-9	9/1/2001	0.770		5.01		0.82		0.42		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NL	
	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	
	3/25/2014	NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL	
	9/4/2014	NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL	
	3/5/2015	NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL	
MW-10	4/1/2002	1.900		9		3.7		0.86		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	6/3/2002	1.500	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	2.000		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	1.450		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	1.200		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	1.360		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	0.710		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		8.6	D	0.511		0.307		0.346		0.0026	U	0.00280	U	0.00240	U	0.00961	J	0.0035	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		0.064	U	0.051	U	0.04150	U	0.03950	U	0.00725	J	0.0405	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	0.025	U
	3/26/2014	0.315		0.00235	U	0.289		0.147		0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/3/2014	0.443		7.62	D	0.489		0.189		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/5/2015	0.243		4.75	DF	0.294	F	0.111		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
MW-11	4/1/2002	0.100	U	0.1	U	0.1	U	0.1	U	NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/16/2008	0.010	U	0.024	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	0.51	U
	7/14/2011	0.050	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00714	U	0.00735	U	0.00714	U	0.01310	U	0.0104	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	0.0051	U
	3/25/2014	0.003	U	0.027		0.00133	U	0.00171	U	0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.001510	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/3/2014	0.0101	U	0.0181	J	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/2/2015	0.0101	UK	0.0108	JKF	0.002	UKF	0.0016	UK	0.00290	UK	0.0026	UK	0.00280	UK	0.00240	UK	0.00430	UK	0.0035	UK	0.00460	UK	0.00450	UK	0.00370	UK	0.00700	UKF	0.00490	UK	0.0288	UK	0.00860	UKF	0.00180	UK	0.00220	UK	0.00450	UK	0.423	UK

Table 4-4: Historical Groundwater Analytical Results

	Test 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	
Site-Specific RRS Values		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**	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag
MW-12	4/1/2002	**0.390**		**1.3**		**0.43**		**0.18**		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	6/1/2002	**0.400**		**1.4**		**0.3**		**0.1**		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/15/2008	**0.034**		**0.44**		**0.022**	J	**0.024**	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	0.51	U
	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	**0.750**		**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	**0.710**		**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	0.0097	U	0.0049	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	0.002	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	**0.015**	J	**0.847**		0.002	U	**0.00783**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.077	U	**0.601**		0.075	U	0.0729	U	0.13300	U	0.106	U	0.08650	U	0.08230	U	0.00469	U	0.0844	U	0.11800	U	0.09380	U	0.08650	U	0.10100	U	0.11700	U	0.109	U	0.08440	U	0.07290	U	0.08440	U	0.07500	U	0.0521	U
	3/26/2014	**0.010**		**0.539**		**0.00532**		**0.0138**		0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/2/2014	**0.0227**	J	**0.660**		**0.0093**	J	**0.0107**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/4/2015	0.0101	U	**0.086**	F	0.002	UF	**0.0033**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
MW-13	4/1/2002	**0.260**		**8**		**0.6**		**0.16**		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	6/1/2002	**0.400**		**11**		**1.4**		**0.5**		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/14/2008	**0.059**		**9**		**0.12**		**0.045**	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	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.5	U
	8/4/2009	**0.120**	J	**11**		**0.63**	J	1.01	U	1.01	U	1.01	U	1.01	U	1.01	U	2.02	U	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	1.01000	U	2.02	U	101	U
	3/27/2013	0.002	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	**0.052**		**6.36**	D	**0.0849**		**0.0307**	J	**0.454**		0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	
	3/26/2014	**0.022**		**4**		**0.032**		**0.0571**		0.0107	U	0.00627	U	0.00276	U	0.00193	U	0.00290	U	0.0116	U	0.00280	U	0.00193	U	0.00579	U	0.00224	U	0.06670	U	0.00343	U	0.00661	U	0.00941	U	0.00633	U	0.00274	U	0.148	U
	9/2/2014	**0.0319**	J	**3.87**	D	**0.0782**		**0.0517**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/5/2015	**0.0206**	J	**3.29**	DF	**0.101**	F	**0.0507**		0.00290	U	0.0026	U	0.00280	U	0.00430	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
MW-14	4/10/2003	**0.200**		**0.1**		**0.1**	U	0.1	U	0.1	U	0.1	U	0.1	U	0.5	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	NM		NM		NM		2.0	U
	4/14/2008	0.010	U	**0.18**		**0.004**	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	0.51	U
	8/4/2009	0.051	U	**0.028**	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	0.102	U	0.102	U	0.102	U	0.102	U	0.510	U	0.102	U	0.051	U	0.051	U	0.102	U	5.10	U
	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	5.10	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.076	U	0.0718	U	0.0738	U	0.0718	U	0.13100	U	0.105	U	0.08510	U	0.08100	U	0.00462	U	0.0831	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
	3/25/2014	0.003	U	**0.243**		0.00134	U	**0.00702**		0.00562	U	0.00329	U	0.00145	U	0.00101	U	0.00153	U	0.0061	U	0.00147	U	0.00179	U	0.00304	U	0.00117	U	0.03500	U	0.0018	U	0.00347	U	0.00494	U	0.00333	U	0.00144	U	0.0777	U
	9/4/2014	0.0101	U	0.311		0.002	U	**0.0025**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/4/2015	0.0101	U	**0.179**	F	**0.0026**	JF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
MW-15	4/10/2003	**6.800**		**1.1**		**0.7**		**1.3**		0.1	U	0.1	U	0.1	U	0.5	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	NM		NM		NM		2.0	U
	4/16/2008	**0.058**		**0.37**		**0.007**	J	**0.042**	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	0.51	U
	8/5/2009	**0.103**		**0.565**		**0.01**	J	**0.067**		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	0.051	U	0.051	U	0.101	U	5.05	U
	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	**0.080**		**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	DRY
	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	**0.057**		**0.221**		0.002	U	**0.0245**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	DRY
	12/3/2013	DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY	
	3/26/2014	**0.041**		**0.317**		0.00135	U	**0.0458**		0.00568	U	0.00333	U	0.00147	U	0.00102	U	0.00154	U	0.00616	U	0.00149	U	0.00181	U	0.00307	U	0.00119	U	0.03540	U	0.00182	U	0.00351	U	0.00499	U	0.00336	U	0.00146	U	0.0785	U
	9/5/2014	**0.139**		**0.587**		**0.0174**	J	**0.0865**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/4/2015	**0.0496**	J	**0.262**	F	0.00778	JF	**0.0339**	J	0.00293	U	0.0505	U	0.00283	U	0.00242	U	0.00434	U	0.00354	U	0.00465	U	0.00455	U	0.00374	U	0.00707	UF	0.00495	U	0.0291	U	0.00869	U	0.00182	U	0.00222	U	0.00455	U	0.428	U
MW-16	4/10/2003	**11.400**		**0.9**		**0.9**		**2.3**		0.1	U	0.1	U	0.1	U	0.5	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	NM		NM		NM		2.0	U
	4/16/2008	0.010	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	0.051	U	0.051	U	0.51	U
	8/5/2009	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.101	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
	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.076	U	0.0722	U	0.0742	U	0.0722	U	0.13200	U	0.105	U	0.08560	U	0.08140	U	0.00464	U	0.0835	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
	3/26/2014	0.031	U	0.0235	U	0.0133	U	0.0489	U	0.05560	U	0.0326	U	0.01440	U	0.01000	U	0.01510	U	0.0604	U	0.01460	U	0.01770	U	0.03010	U	0.01160	U	0.34700	U	0.0178	U	0.03440	U	0.04890	U	0.03290	U	0.01430	U	0.769	U
	9/3/2014	0.0101	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/3/2015	0.0100	U	0.00228	UF	0.00198	UF	0.00158	U	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	UF	0.00257	U	0.0285	U	0.00851	UF	0.00178	U	0.00218	U	0.00446	U	0.419	U
MW-17	4/16/2008	0.010	U	**0.25**		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	0.051	U	0.51	U
	8/4/2009	**0.017**	J	**0.37**		**0.36**		**0.011**	J	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
	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	**0.010**	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	0.0097	U	0.0049	U	0.0049	U	0.0097	U	0.97	U
	3/26/2013	0.002	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	0.002	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	0.010	U	**0.39**		**0.0162**	J	**0.00748**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.077	U	**0.264**		0.0746	U	0.0725	U	0.13300	U	0.106	U	0.08600	U	0.08190	U	0.00466	U	0.0839	U	0.11700	U	0.09330	U	0.08600	U	0.10100	U	0.11600	U	0.109	U	0.08390	U	0.07250	U	0.08390	U	0.07460	U	0.0518	U
	3/27/2014	0.031	U	**0.159**		0.0133	U	0.0171	U	0.05560	U	0.0326	U	0.01440	U	0.01000	U	0.01510	U	0.0604	U	0.01460	U	0.01770	U	0.03010	U	0.01160	U	0.34700	U	0.0178	U	0.03440	U	0.04890	U	0.03290	U	0.01430	U	0.769	U
	9/2/2014	0.010	U	**0.218**		**0.0105**	J	**0.00287**	J	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/3/2015	0.010	U	**0.357**	F	**0.0849**	F	**0.006**	J	0.00290	U	0.0026	U	0.00280	U	0.00430	U	0.00430	U	0.0035	U	0.00446	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U

Table 4-4: Historical Groundwater Analytical Results

	Test 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	
Site-Specific RRS Values		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**	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag
MW-18	8/6/2009	0.051	U	**0.375**		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	0.505	U	0.101	U	0.051	U	0.051	U	0.101	U	5.05	U
	7/15/2011	0.050	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	**0.025**	J	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
	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	0.002	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	0.010	U	**0.409**	J	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	**0.00680**	J	0.0035	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	0.076	U	**0.463**		0.0742	U	0.0722	U	0.13200	U	0.105	U	0.08560	U	0.08140	U	0.00464	U	0.0835	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
	3/26/2014	0.030	U	**0.356**		0.0127	U	0.0164	U	0.05350	U	0.0313	U	0.01380	U	0.00963	U	0.01450	U	0.0581	U	0.01400	U	0.01700	U	0.02890	U	0.01120	U	0.33300	U	0.0171	U	0.03310	U	0.04700	U	0.48100	U	0.01370	U	0.74	U
	9/4/2014	0.010	U	**0.102**		0.00198	U	**0.00327**	J	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.004260	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	UX	0.00218	U	0.00446	U	0.419	U
	3/4/2015	0.010	U	**0.111**	F	0.00198	U	0.00158	U	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.004260	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	UF	0.00485	U	0.0285	U	0.00851	UF	0.00178	U	0.00218	U	0.00446	U	0.419	U
MW-19	8/6/2009	**0.009**	J	**0.113**		0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	**0.012**	J	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
	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.076	U	0.0718	U	0.0738	U	0.0718	U	0.13100	U	0.105	U	0.08510	U	0.08100	U	0.00462	U	0.0831	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
	3/27/2014	0.003	U	**0.074**		0.0013	U	**0.0109**		0.00545	U	0.0032	U	0.00141	U	0.00098	U	0.00148	U	0.00592	U	0.00143	U	0.00174	U	0.00295	U	0.00114	U	0.03400	U	0.00175	U	0.00337	U	0.00480	U	0.00323	U	0.00140	U	0.0754	U
	9/4/2014	0.010	U	**0.0762**		**0.00515**	J	**0.00891**	J	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.004260	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	..00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/4/2015	0.010	U	**0.0288**	JF	**0.0175**	JF	0.00784	J	0.00291	U	0.00261	U	0.00281	U	0.00241	U	0.004320	U	0.00352	U	0.00462	U	0.00452	U	0.00372	U	0.00704	UF	0.00492	U	0.0289	U	0.00864	UF	0.00181	U	0.00221	U	0.00452	U	0.425	U
MW-20	8/6/2009	**2.500**	U	**25.7**		**2.5**	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	5.00	U	5	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00	U	25	U	5.00	U	2.5	U	2.5	U	5.00	U	250	U
	7/12/2011	**0.460**	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	0.005	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	0.010	U	**2.21**	D	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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**		**0.148**	U	0.144	U	0.26400	U	0.21	U	0.17100	U	0.16300	U	**0.01880**	J	0.167	U	0.23300	U	0.18600	U	0.17100	U	0.20000	U	0.23100	U	0.216	U	0.16700	U	0.14400	U	0.16700	U	0.14800	U	0.103	U
	3/27/2014	0.031	U	**2.64**		**0.0229**		0.0169	U	0.05510	U	0.0323	U	0.01420	U	0.00991	U	0.01500	U	0.0598	U	0.01440	U	0.01750	U	0.02980	U	0.01150	U	0.34300	U	0.0176	U	0.03410	U	0.04840	U	0.03260	U	0.01410	U	0.762	U
	9/3/2014	**0.0803**		**12.4**	D	**0.469**		**0.074**		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.004260	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/5/2015	**0.0106**	J	**4.71**	DF	**0.0521**	F	**0.0171**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
MW-21	8/6/2009	**0.576**		**7.46**		**0.5**	U	**0.35**	J	0.5	U	0.5	U	0.5	U	0.5	U	1.0	U	1	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	1.00	U	0.5	U	0.5	U	1.00	U	50	U
	7/12/2011	**0.210**	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	**0.130**		**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	0.002	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	0.002	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	0.010	U	**0.286**		0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.076	U	**2.53**		0.0742	U	0.0722	U	0.13200	U	0.105	U	0.08560	U	0.08140	U	0.00464	U	0.0835	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
	3/27/2014	0.031	U	**0.856**		0.0133	U	0.0171	U	0.05560	U	0.0326	U	0.01440	U	0.01000	U	0.01510	U	0.0604	U	0.01460	U	0.01770	U	0.03010	U	0.01160	U	0.34700	U	0.0178	U	0.03440	U	0.04890	U	0.03290	U	0.01430	U	0.769	U
	9/5/2014	**0.359**		**5.52**	D	**0.574**		**0.280**		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/5/2015	**0.081**		**3.44**	DF	**0.283**	F	**0.088**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	**0.02090**	J	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
MW-22	4/5/2012	**1.520**	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	**1.300**	*	**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	**1.090**		**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	**1.100**	D	**33.7**	DX	**0.725**		**0.382**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	**0.0521**	J	0.0035	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**		**0.489**		0.2610	U	0.208	U	0.1690	U	0.1610	U	**0.03040**	J	0.165	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
	3/27/2014	**0.284**		**14.3**		**0.212**		**0.166**		0.0535	U	0.0313	U	0.0138	U	0.0096	U	0.01450	U	0.0581	U	0.0140	U	0.0170	U	0.0289	U	0.0112	U	0.3330	U	0.0171	U	0.0331	U	0.0470	U	0.0317	U	0.0137	U	0.7400	
	9/5/2014*[4]	**1.01**	D	**37.098**	D	**22.4**	D	**0.365**		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/6/2015	**0.48**		**21.6**	DF	**9.53**	DF	**0.204**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
MW-23	9/5/2014	**0.0227**	J	**5.17**	D	**0.0174**	J	**0.0517**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/5/2015	**0.0189**	J	**4.63**	DF	**0.0316**	JF	**0.0528**		0.00290	U	0.0026	U	0.00290	U	0.00430	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00460	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
MW-24	3/3/2015	0.0101	U	**0.0041**	JF	0.002	UF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U

Sources: Analytical results from March 2013 to March 2015 are from samples directly collected by EIC. Historical data prior to March 2013 from CH2MHill 2008, 2009, and 2012 Groundwater Reports and Law Engineering 2001-2003 Compliance Status Reports and Addendums

Notes:

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 limit.
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 laboratory QC deficiency was observed in quality control review of data
F = Relative percent difference exceeded lab control limits

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 correlation.
*[4] = Result for beta-BHC was adjusted based on tubing rinsate sample, see Xenco lab report number 492804

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

SITE CONCEPTUAL MODEL REPORT

FIGURES



Legend

- MONITORING WELL
- STILLING WELL
- MW-18 MONITORING WELL ID
- N.L. NOT LOCATED

SITE FEATURES

- BULKHEAD
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.
WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400

Feet

DESIGNED BY: W.G.	REVISIONS NO.	REVISIONS DATE	DATE: 4/17/2015
DRAWN BY: W.G.			SCALE: SEE BAR SCALE
CHECKED BY: A.S.			SHEET NO.: 1 OF 1
APPROVED BY: R.M.			

FIGURE 1-1: SITE MAP

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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

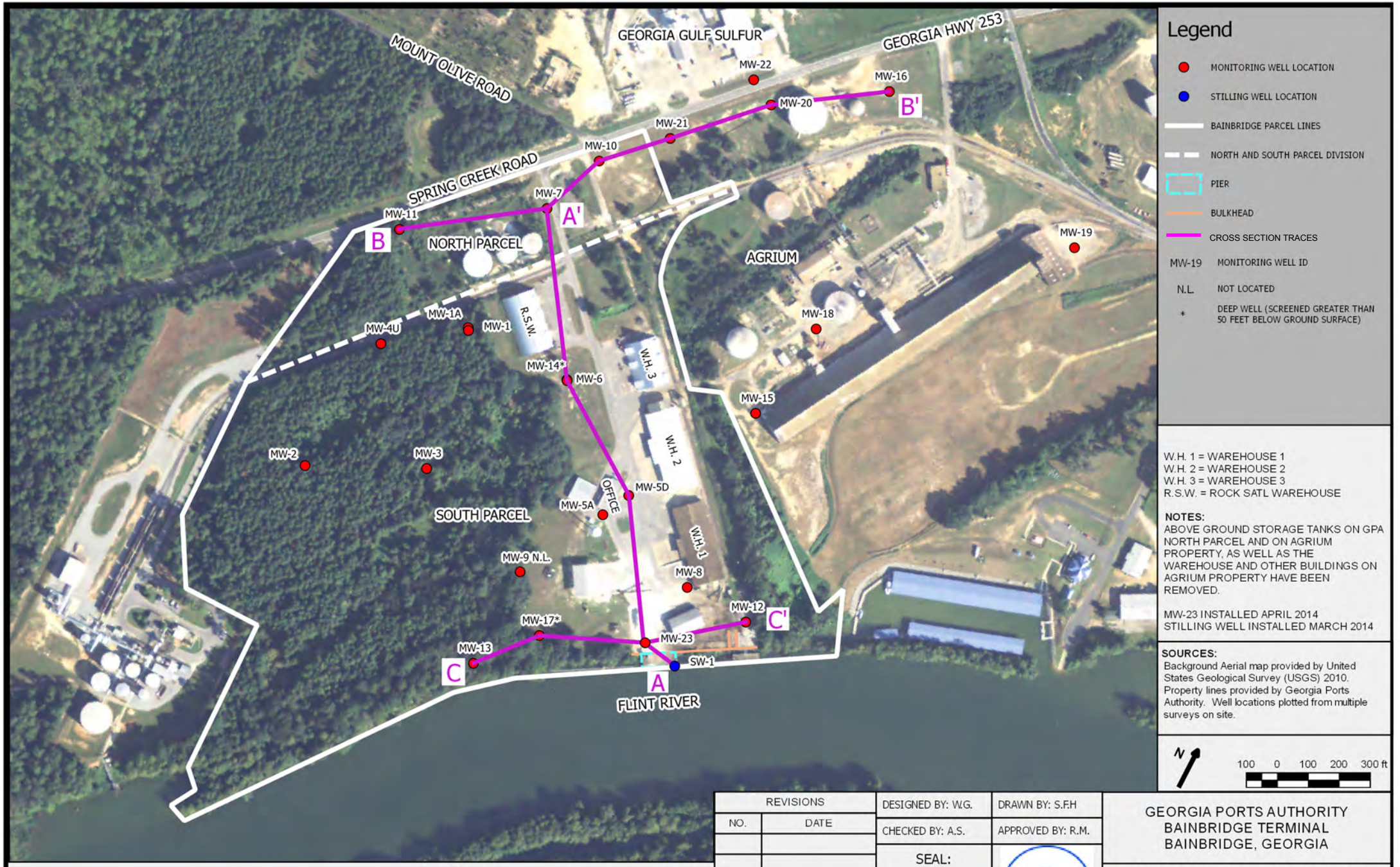
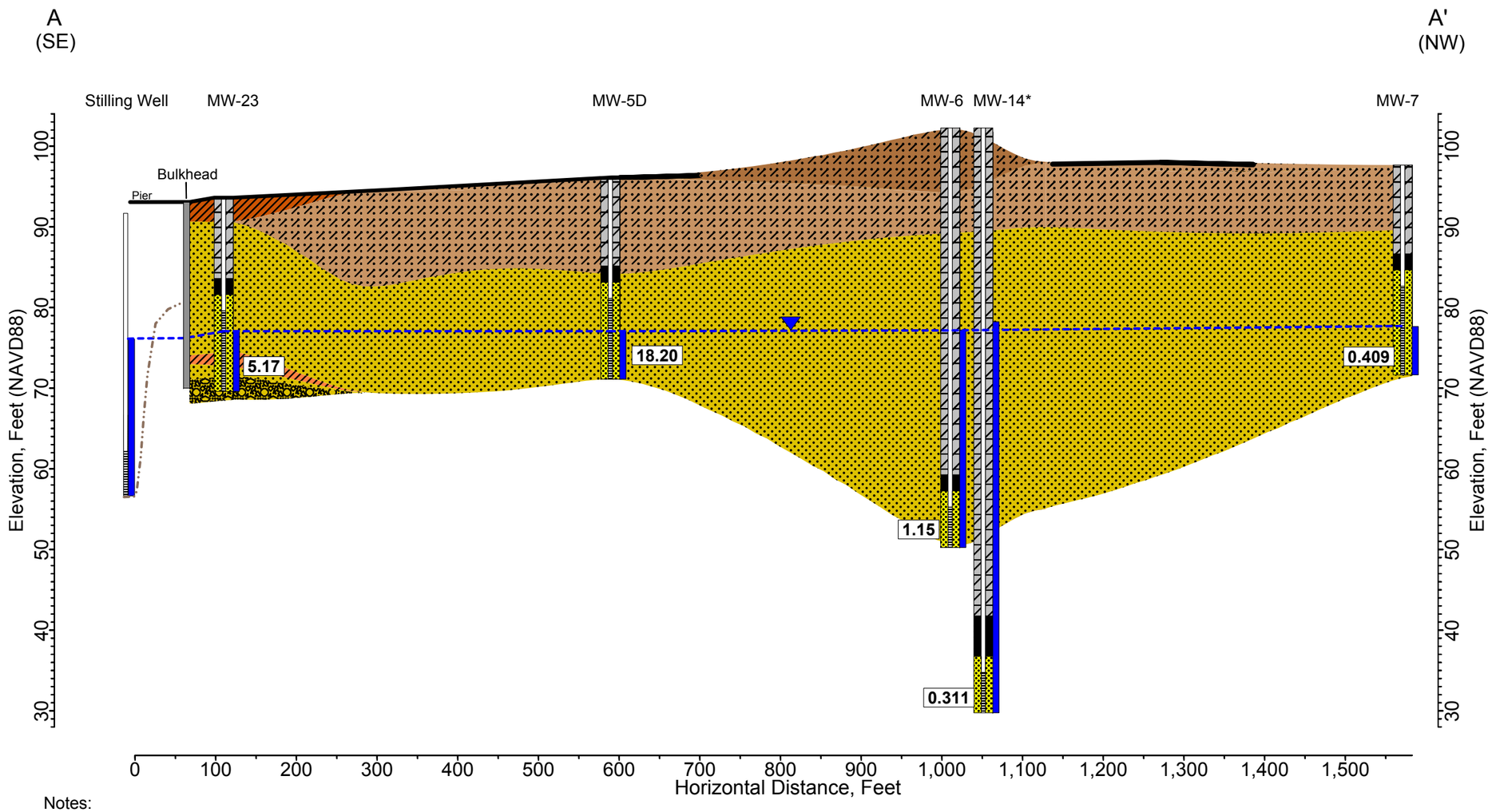


FIGURE 2-1: Hydrogeological Cross-Sections Trace Map

REVISIONS		DESIGNED BY: W.G.	DRAWN BY: S.F.H	GEORGIA PORTS AUTHORITY BAINBRIDGE TERMINAL BAINBRIDGE, GEORGIA	
NO.	DATE	CHECKED BY: A.S.	APPROVED BY: R.M.		
		SEAL:	EIC	ENVIRONMENTAL INTERNATIONAL CORPORATION 161 KIMBALL BRIDGE ROAD ALPHARETTA, GEORGIA 30009	
		Scale: SEE BAR	Date: 09/29/2014	File: 400007 - 4.5 - GPA BAINBRIDGE	SHEET NO.: 1

Figure 2-2: A-A' (Southeast to Northwest) Hydrogeological Cross-Section, GPA, Bainbridge, GA



Legend

Lithology

- BACKFILL (SAND WITH CLAY)
- CLAY
- ENGINEERED BACKFILL (CLAY)
- SAND
- SAND WITH CLAY
- SAND WITH GRAVEL

Well Construction

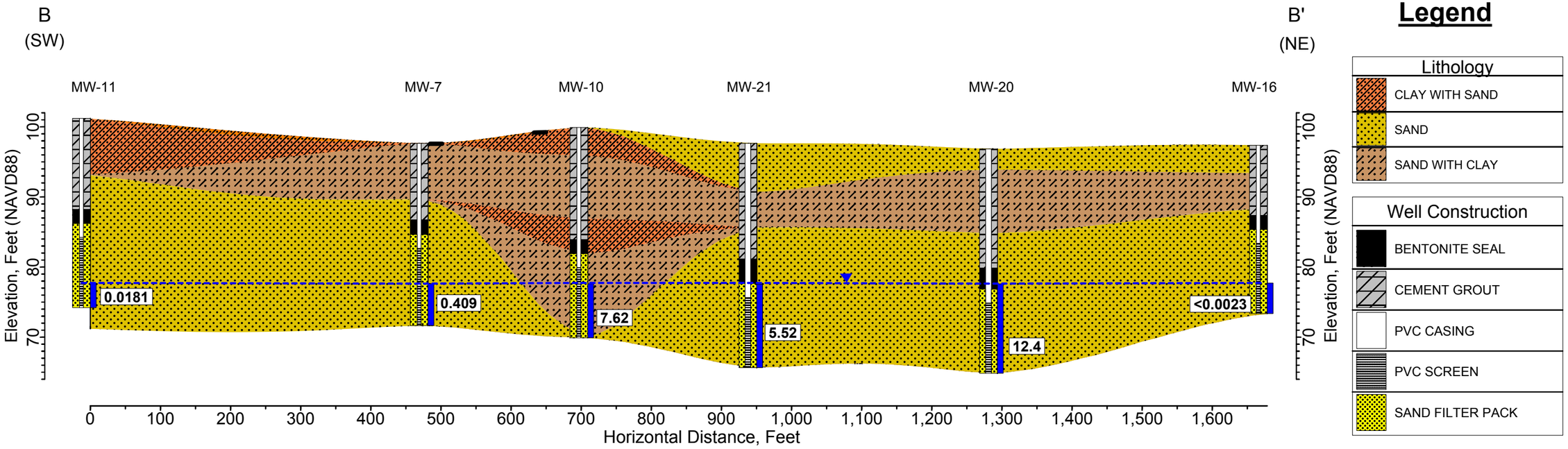
- BENTONITE SEAL
- CEMENT GROUT
- PVC CASING
- PVC SCREEN
- SAND FILTER PACK

- Estimated River Bottom/Bank
- Interpolated Water Surface (September 2014)
- Impermeable Surfaces
- Water Column (September 2014)
- Bulkhead
- 5.05 Beta-BHC Concentration September 2014 (ug/L)

Notes:
Hydrogeological cross section is based on lithological data logs and well construction diagrams prepared by various consultants for each monitoring well. Lithology was correlated utilizing Rockworks 2006 stratigraphy modeling software by Rockware. Bulkhead coordinates determined during EIC site survey, depth and approximate river bank elevation determined from Thomas and Hutton Engineers 1958 as-built drawing and 1956 Bulkhead and Pile Details, GPA reference 02-45-99-023 and 02-45-99-005. Bulkhead and well construction logs are horizontally exaggerated to show detail. All wells have a 2-inch diameter PVC casing.
*Lithology and groundwater level at MW-14 is not considered.

GEORGIA PORTS AUTHORITY BAINBRIDGE TERMINAL BAINBRIDGE GEORGIA	EIC	SEAL:	DESIGNED BY:	W.G.	DATE:	9/10/2014	FILE: 400007: 4.5
			DRAWN BY:	S.F.H	REVISION:	DATE:	SHEET NO.: 1 of 1
ENVIRONMENTAL INTERNATIONAL CORPORATION 161 KIMBALL BRIDGE ROAD ALPHARETTA, GEORGIA 30009			CHECKED BY:	A.S.			VERTICAL EXAGERATION = 10X
			APPROVED BY:	R.M.			

Figure 2-3: B-B' (Southwest to Northeast) Hydrogeological Cross-Section, GPA, Bainbridge, GA



Legend

Lithology
- CLAY WITH SAND
- SAND
- SAND WITH CLAY

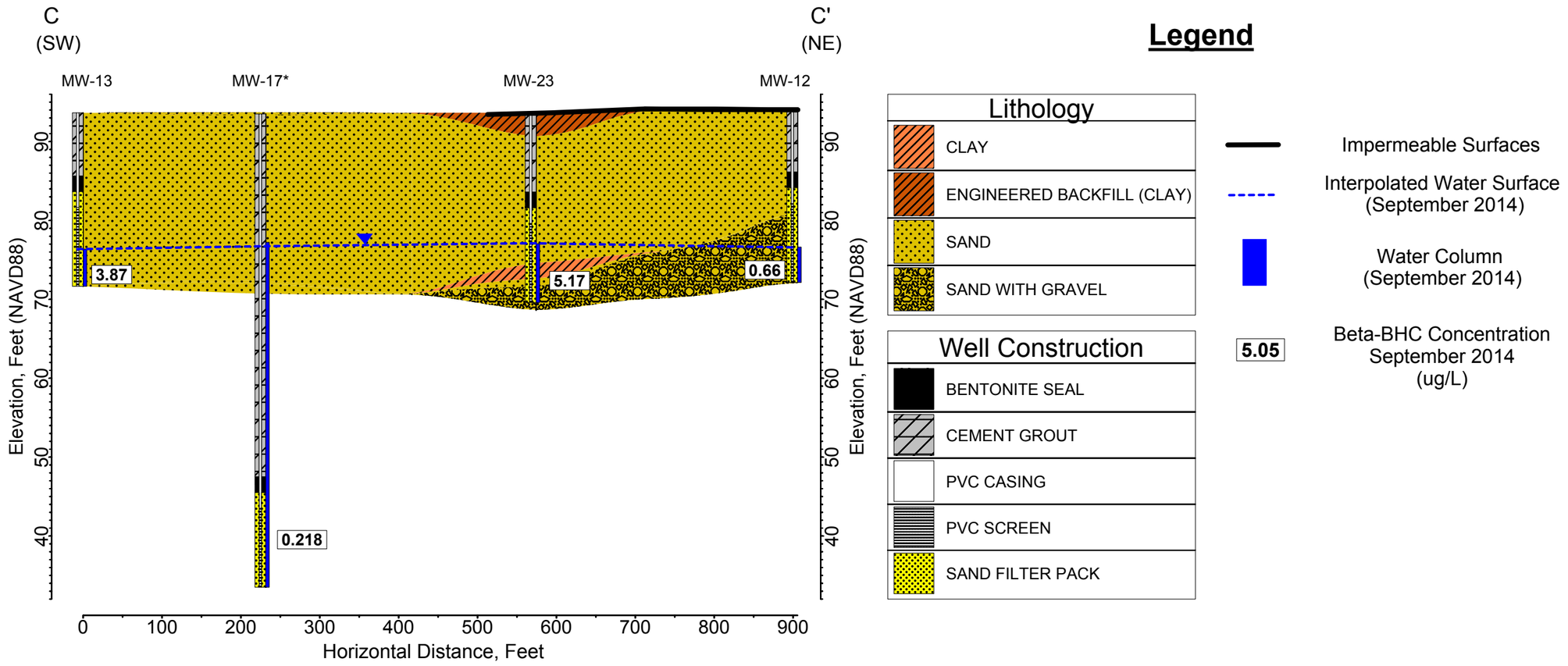
Well Construction
- BENTONITE SEAL
- CEMENT GROUT
- PVC CASING
- PVC SCREEN
- SAND FILTER PACK

- Impermeable Surfaces
- Interpolated Water Surface (September 2014)
- Water Column (September 2014)
- **5.05** Beta-BHC Concentration September 2014 (ug/L)

Notes:
Hydrogeological cross section is based on lithological data logs and well construction diagrams prepared by various consultants for each monitoring well. Lithology was correlated utilizing Rockworks 2006 stratigraphy modeling software by Rockware. Well construction logs are horizontally exaggerated to show detail. All wells have a 2-inch diameter PVC casing.

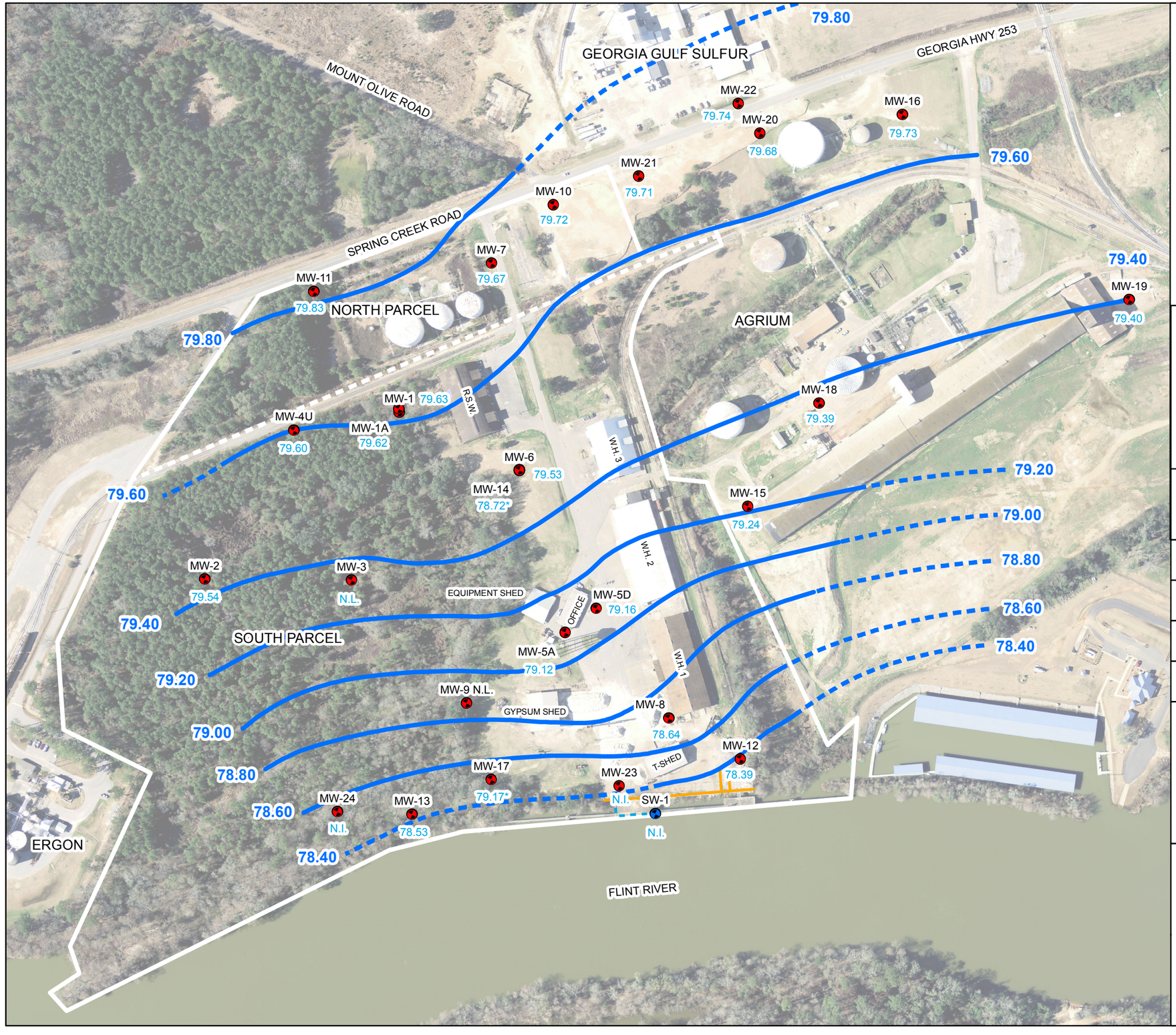
GEORGIA PORTS AUTHORITY BAINBRIDGE TERMINAL BAINBRIDGE GEORGIA	EIC	SEAL:	DESIGNED BY:	W.G.	DATE:	9/10/2014	FILE:	400007: 4.5
			DRAWN BY:	S.F.H	REVISION:	DATE:	SHEET NO.:	1 of 1
ENVIRONMENTAL INTERNATIONAL CORPORATION 161 KIMBALL BRIDGE ROAD ALPHARETTA, GEORGIA 30009			CHECKED BY:	A.S.			VERTICAL EXAGERATION = 10X	
			APPROVED BY:	R.M.				

Figure 2-4: C-C' (Southwest to Northeast) Hydrogeological Cross-Section, GPA, Bainbridge, GA



Notes:
Hydrogeological cross section is based on lithological data logs and well construction diagrams prepared by various consultants for each monitoring well. Lithology was correlated utilizing Rockworks 2006 stratigraphy modeling software by Rockware. Well construction logs are horizontally exaggerated to show detail. All wells have a 2-inch diameter PVC casing.
*Lithology and groundwater level at MW-17 is not considered.

GEORGIA PORTS AUTHORITY BAINBRIDGE TERMINAL BAINBRIDGE GEORGIA	EIC	SEAL:	DESIGNED BY:	W.G.	DATE:	9/10/2014	FILE:	400007: 4.5
			DRAWN BY:	S.F.H	REVISION:	DATE:	SHEET NO.:	1 of 1
ENVIRONMENTAL INTERNATIONAL CORPORATION 161 KIMBALL BRIDGE ROAD ALPHARETTA, GEORGIA 30009			CHECKED BY:	A.S.			VERTICAL EXAGERATION = 10X	
			APPROVED BY:	R.M.				



Legend

- MONITORING WELL
- STILLING WELL
- MW-18 MONITORING WELL ID
- N.L. NOT LOCATED

SITE FEATURES

- BULKHEAD
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER

GROUNDWATER CONTOURS

- CONTOUR (0.2 FT.)
- ESTIMATED CONTOUR
- 78.40 GROUNDWATER CONTOUR ELEVATION (FT., NAVD 88)
- 78.94 GROUNDWATER ELEVATION (FT., NAVD 88)
- * GROUNDWATER ELEVATION NOT CONSIDERED AS WELL IS SCREENED GREATER THAN 50 FEET BELOW GROUND SURFACE
- ** GROUNDWATER ELEVATION NOT CONSIDERED DUE TO ANOMALY
- N.I. NOT INSTALLED

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.
WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

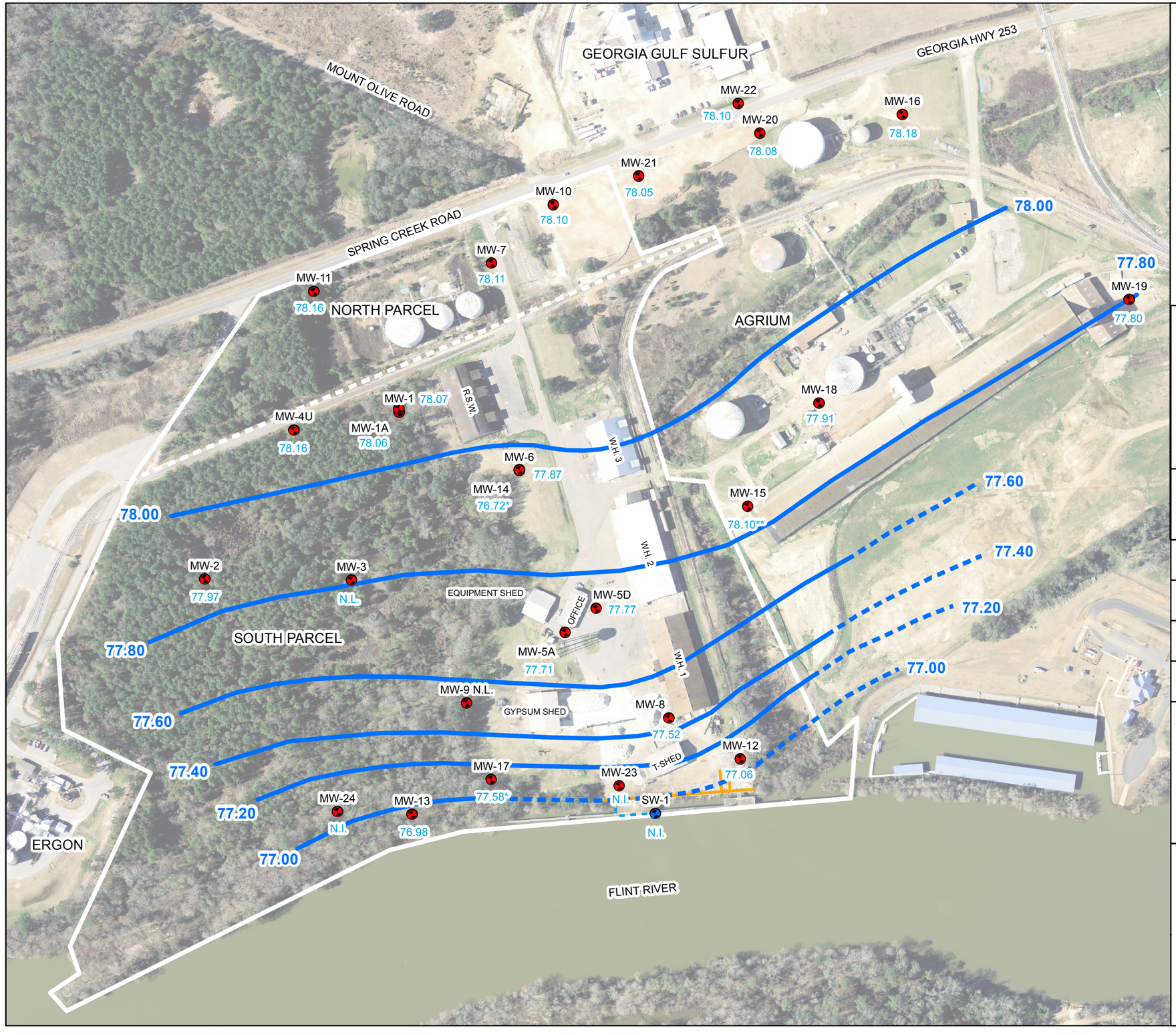
400 200 0 400 Feet

DESIGNED BY: W.G.	REVISIONS NO.	REVISIONS DATE	DATE: 5/4/2015
DRAWN BY: W.G.			SCALE: SEE BAR SCALE
			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 2-5: MARCH 2013 GROUNDWATER POTENTIOMETRIC SURFACE MAP

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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



Legend

- MONITORING WELL
- STILLING WELL
- MW-18 — MONITORING WELL ID
- N.L. — NOT LOCATED

SITE FEATURES

- BULKHEAD
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER

GROUNDWATER CONTOURS

- CONTOUR (0.2 FT.)
- ESTIMATED CONTOUR
- 78.40 — GROUNDWATER CONTOUR ELEVATION (FT., NAVD 88)
- 78.94 — GROUNDWATER ELEVATION (FT., NAVD 88)
- * — GROUNDWATER ELEVATION NOT CONSIDERED AS WELL IS SCREENED GREATER THAN 50 FEET BELOW GROUND SURFACE
- ** — GROUNDWATER ELEVATION NOT CONSIDERED DUE TO ANOMALY.
- N.I. — NOT INSTALLED

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.
WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400 Feet

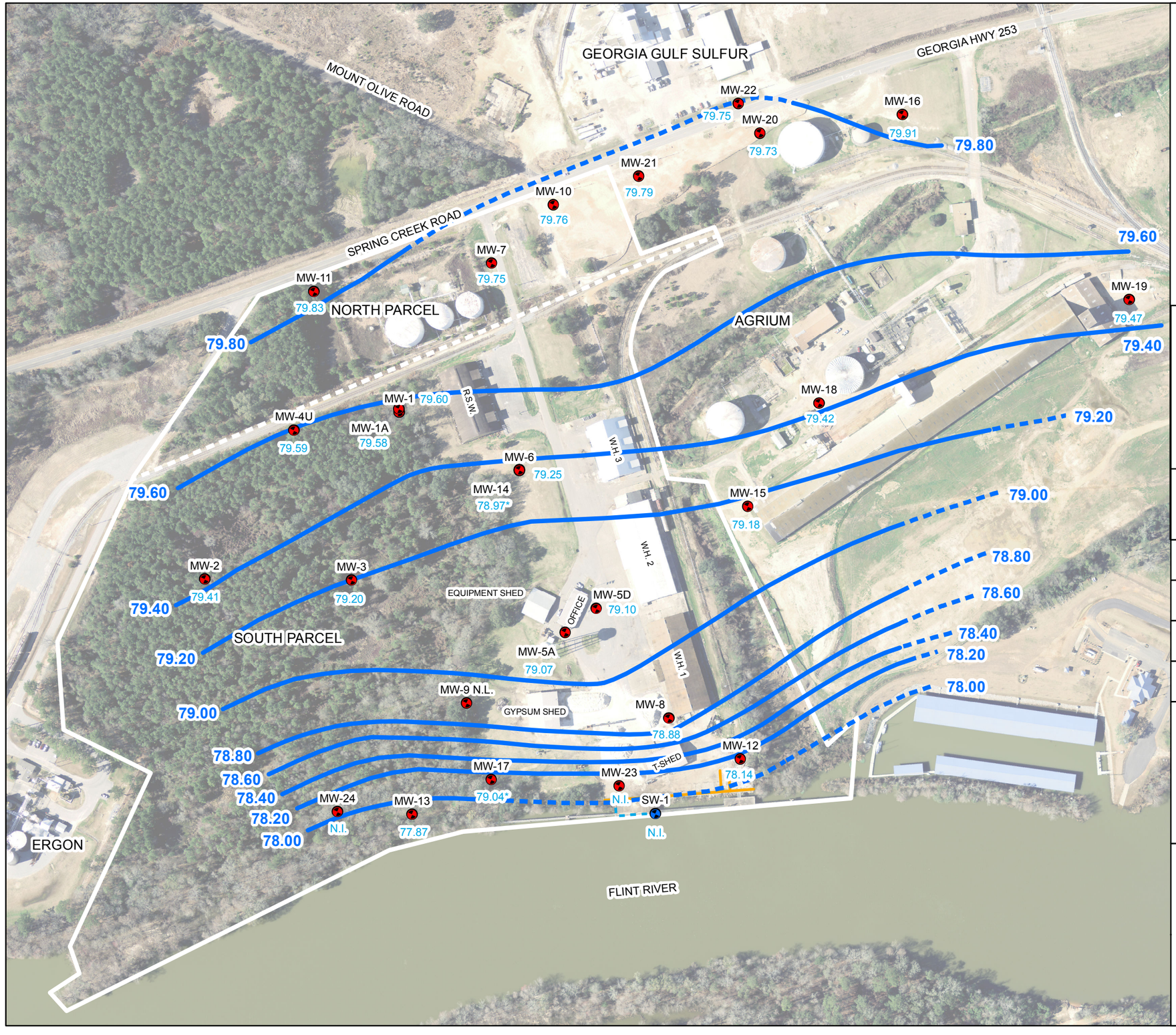
DESIGNED BY: W.G.	REVISIONS NO.	REVISIONS DATE	DATE: 5/4/2015
DRAWN BY: W.G.			SCALE: SEE BAR SCALE
CHECKED BY: A.S.			SHEET NO.: 1 OF 1
APPROVED BY: R.M.			

FIGURE 2-6: JUNE 2013 GROUNDWATER POTENTIOMETRIC SURFACE MAP

EIC

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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



Legend

MONITORING WELL

STILLING WELL

MW-18 MONITORING WELL ID

N.L. NOT LOCATED

SITE FEATURES

BULKHEAD

NORTH AND SOUTH PARCEL DIVISION

BAINBRIDGE PARCEL LINES

PIER

GROUNDWATER CONTOURS

CONTOUR (0.2 FT.)

ESTIMATED CONTOUR

78.40 GROUNDWATER CONTOUR ELEVATION (FT., NAVD 88)

78.94 GROUNDWATER ELEVATION (FT., NAVD 88)

* GROUNDWATER ELEVATION NOT CONSIDERED AS WELL IS SCREENED GREATER THAN 50 FEET BELOW GROUND SURFACE

N.I. NOT INSTALLED

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.
WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400 Feet

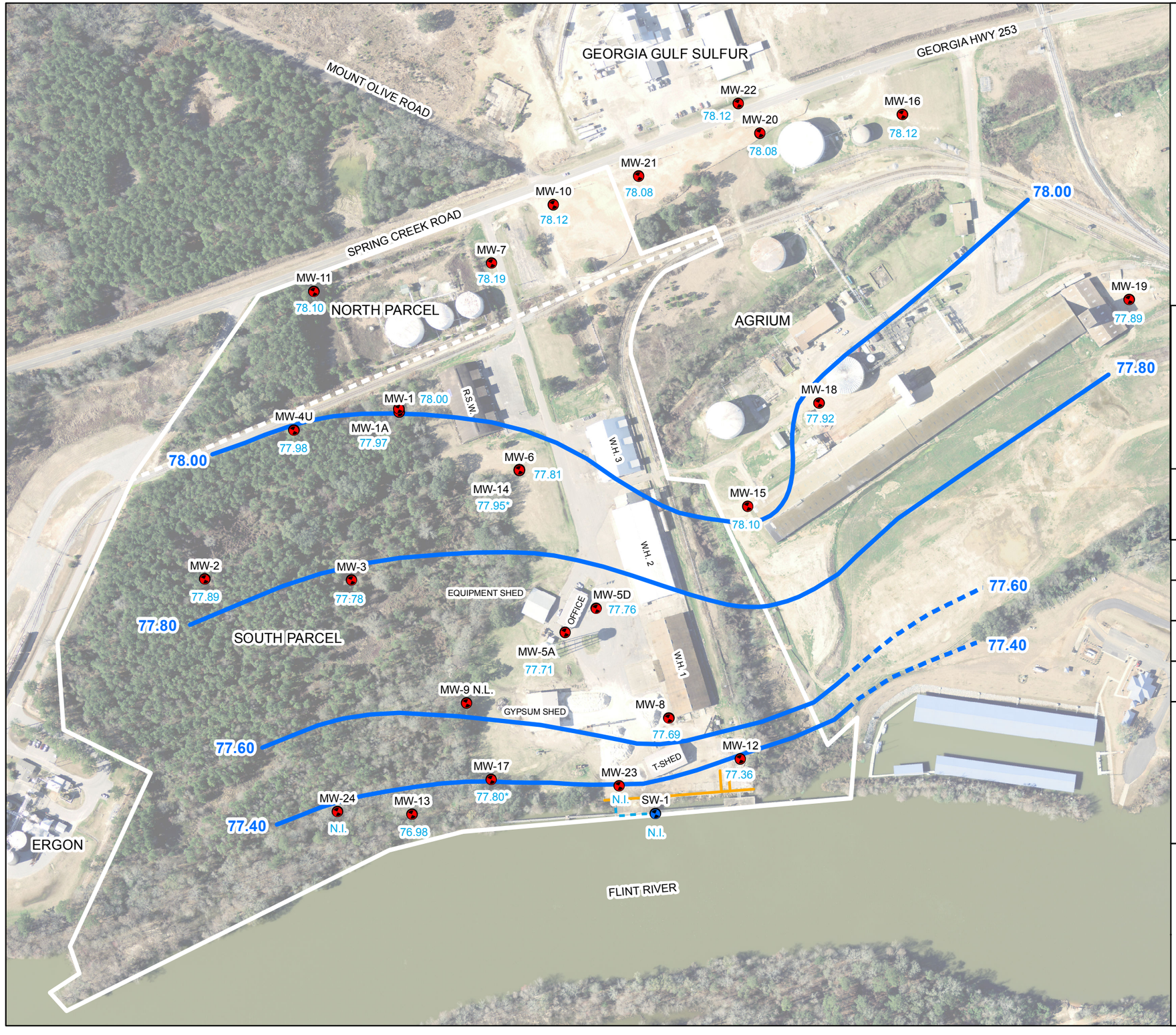
DESIGNED BY: W.G.	REVISIONS NO.	REVISIONS DATE	DATE: 5/4/2015
DRAWN BY: W.G.			SCALE: SEE BAR SCALE
CHECKED BY: A.S.			SHEET NO.: 1 OF 1
APPROVED BY: R.M.			

FIGURE 2-7: SEPTEMBER 2013 GROUNDWATER POTENTIOMETRIC SURFACE MAP

EIC

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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



Legend

- MONITORING WELL
- STILLING WELL
- MW-18 MONITORING WELL ID
- N.L. NOT LOCATED

SITE FEATURES

- BULKHEAD
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER

GROUNDWATER CONTOURS

- CONTOUR (0.2 FT.)
- ESTIMATED CONTOUR
- 78.40 GROUNDWATER CONTOUR ELEVATION (FT., NAVD 88)
- 78.94 GROUNDWATER ELEVATION (FT., NAVD 88)
- * GROUNDWATER ELEVATION NOT CONSIDERED AS WELL IS SCREENED GREATER THAN 50 FEET BELOW GROUND SURFACE
- N.I. NOT INSTALLED

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.
WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400 Feet

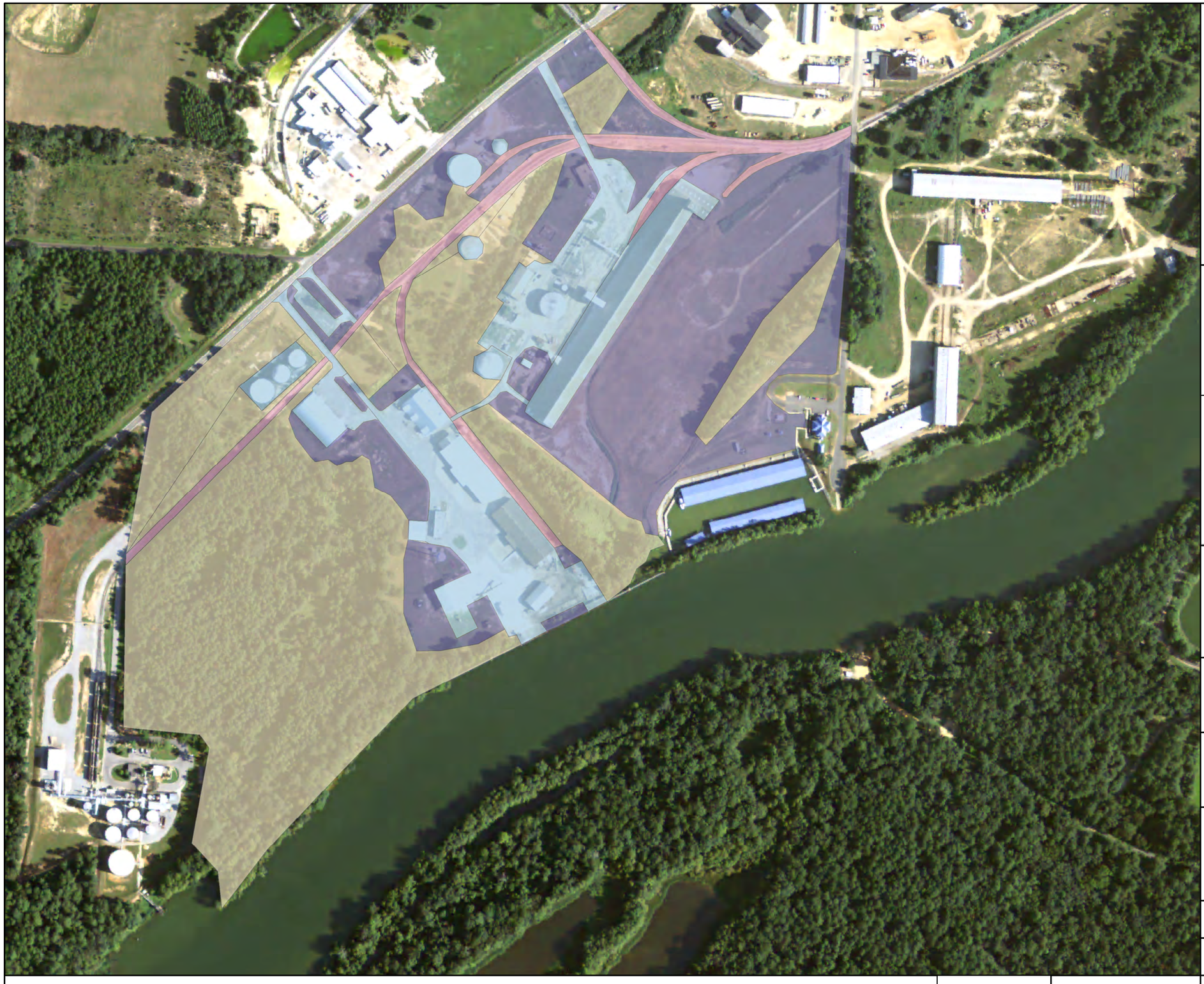
DESIGNED BY: W.G.	REVISIONS NO.	REVISIONS DATE	DATE: 5/4/2015
DRAWN BY: W.G.			SCALE: SEE BAR SCALE
			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 2-8: DECEMBER 2013 GROUNDWATER POTENTIOMETRIC SURFACE MAP

EIC

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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



Legend

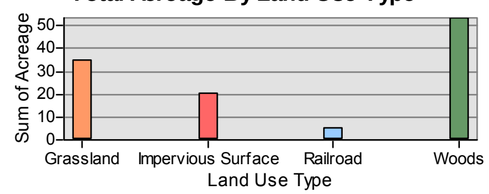
Land Type

- Grassland
- Impervious Surface
- Railroad
- Woods

Area Summary by Land Use Category

Category - Acreage - Percentage of Total Land Use

Grassland - 34.8 - 30.5%
Impervious Surface - 20.2 - 17.7%
Railroads - 5.44 - 4.8%
Woodland - 53.53 - 47%



N

200 0 200 400

Feet

Georgia Ports Authority
Bainbridge Terminal
Bainbridge, Georgia

Environmental International Corporation
161 Kimball Bridge Road
Alpharetta, Georgia 30009

Source: Base map aerial photograph from ArcGIS google maps layer file, land use types are derived from aerial photograph.

Figure 2-9: Land Use and Area Summary GPA Bainbridge Terminal, Bainbridge, GA

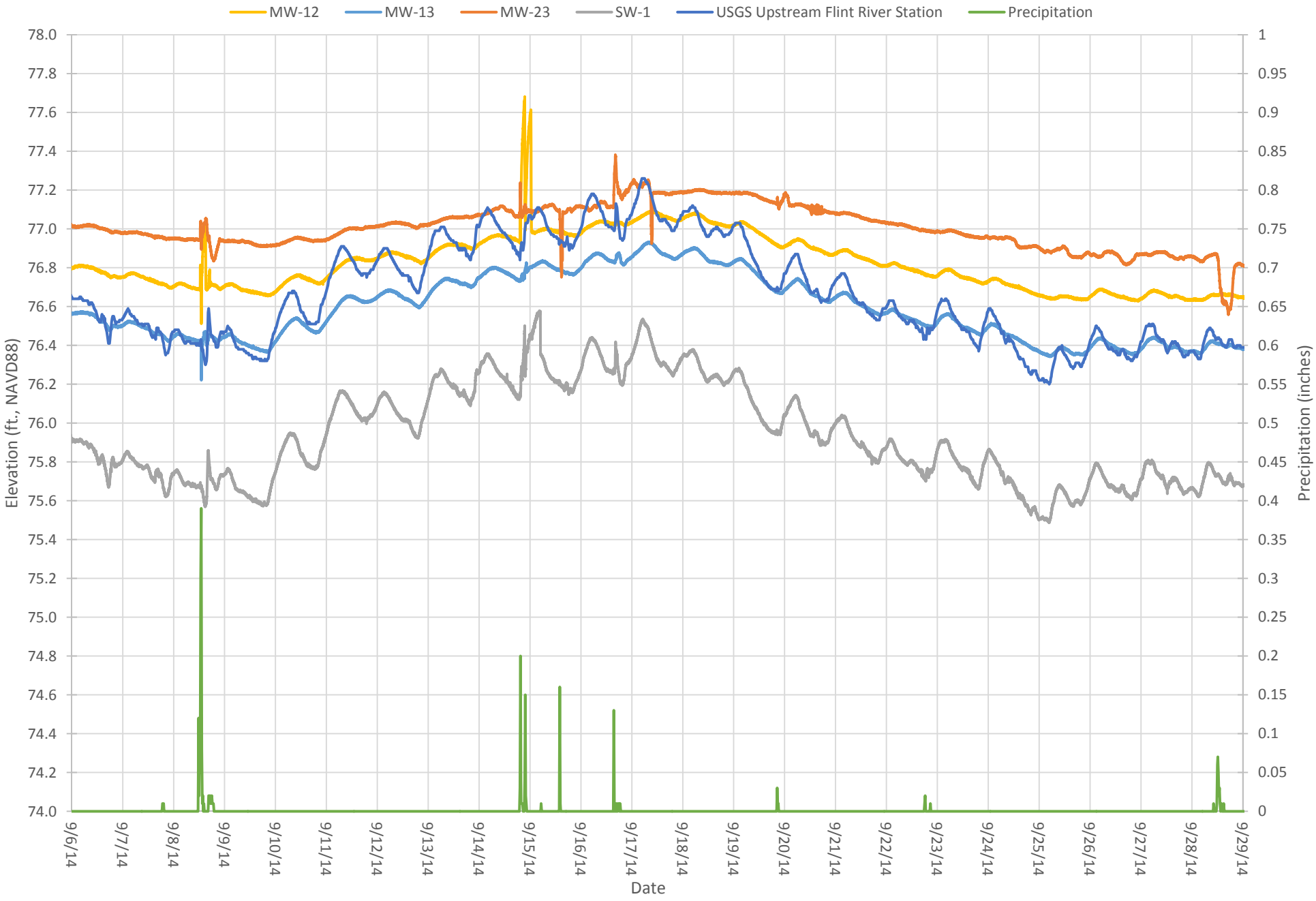
EIC

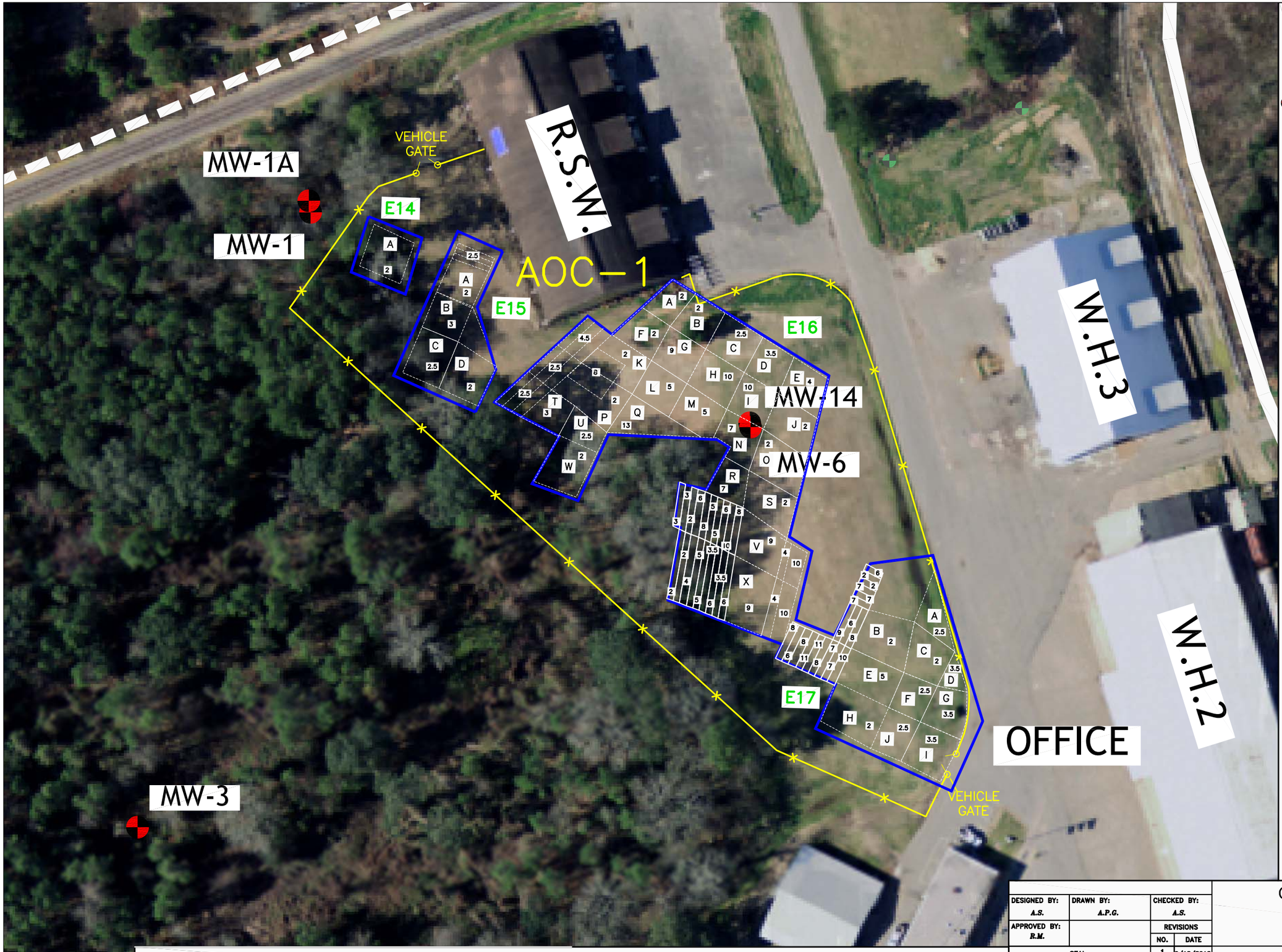
Seal:

Designed By: W.G.	**Revision No.**	**Date**
Drawn By: W.G.		
Checked By: A.S,		
Approved By: R.M.		
File: 400007 - 4.5	Sheet No.: 1 of 1	
Scale: See bar scale	Date: 6/6/2014	

Document Path: Z:\projects\1910 project-GA\400000 GPA\Bainbridge\400007\4.5 GR\120 draft EIC reports\SCM\Groundwater Recharge\Groundwater Recharge Map.mxd

Figure 2-10: GPA Bainbridge Terminal, Flinter River Level Analysis





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
- 5 TOTAL CELL SAMPLE DEPTH (ft)
- AOC 1 BOUNDARY

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. SOIL SAMPLE GRID AND ANALYTICAL DATA PROVIDED BY CH2MHILL.

N

25 0 25 50 75

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 4-1: LOCATION OF SOIL BORINGS IN AOC-1

DESIGNED BY: A.S.	DRAWN BY: A.P.G.	CHECKED BY: A.S.	GEORGIA PORTS AUTHORITY BAINBRIDGE TERMINAL Bainbridge, Georgia
APPROVED BY: R.M.		REVISIONS NO. 1 DATE 9/18/2013	
SEAL:			ENVIRONMENTAL INTERNATIONAL CORP. 161 KIMBALL BRIDGE ROAD ALPHARETTA, GEORGIA 30009
SCALE: SEE BAR SCALE	DATE: 12/23/2013	FILE: 400007-4.3 - GPA BAINBRIDGE	SHEET NO.:

RSW Island N*

WH3 S3	0'-2'	3'-5'
alpha-BHC	**0.478**	< 0.000215
beta-BHC	**0.612**	**0.00759**
delta-BHC	**0.00511**	< 0.000184
gamma-BHC	**0.0152**	< 0.000221

SB-02	0'-0.5'
alpha-BHC	**0.016J**
beta-BHC	**0.113J**
delta-BHC	<0.0186
gamma-BHC	<0.0165

WH3 N3	0'-2'	3'-5'
alpha-BHC	**0.00343**	< 0.000153
beta-BHC	**0.140**	**0.00959**
delta-BHC	**0.00276**	< 0.000131
gamma-BHC	**0.00265**	< 0.000157

WH3 N2	0'-2'	3'-5'
alpha-BHC	< 0.000161	< 0.000154
beta-BHC	**0.00641**	< 0.000201
delta-BHC	< 0.000138	< 0.000132
gamma-BHC	< 0.000166	< 0.000158

WH3 S4	0'-2'	3'-5'
alpha-BHC	**0.00136 J**	< 0.000159
beta-BHC	**0.00626**	**0.00154 J**
delta-BHC	< 0.000138	< 0.000136
gamma-BHC	< 0.000165	< 0.000164

SB-01	0' - 0.5'
alpha-BHC	**0.0126**
beta-BHC	**0.0286**
delta-BHC	**0.00304J**
gamma-BHC	**0.0023J**

WH3 S2	0'-2'	3'-5'
alpha-BHC	< 0.00016	< 0.000151
beta-BHC	**0.0722**	< 0.000197
delta-BHC	< 0.000137	< 0.000129
gamma-BHC	< 0.000164	< 0.000155

WH3 N4*

NW-SB-12	0'-2'	3'-5'
alpha-BHC	**52.1**	**0.182**
beta-BHC	**8.62J**	**0.114**
delta-BHC	**4.33J**	0.0455
gamma-BHC	9.43	**0.0324**

WH3 E1

RSW Island S	0'-2'	3'-5'
alpha-BHC	**0.00183 J**	**0.503**
beta-BHC	**0.00757**	**0.186**
delta-BHC	< 0.000138	0.0536
gamma-BHC	< 0.000166	**0.0636**

NW-SB-11	0'-2'	3'-5'
alpha-BHC	**0.192**	< 0.0112
beta-BHC	**7.19**	< 0.0242
delta-BHC	0.0369J	< 0.0149
gamma-BHC	**0.0967**	< 0.0132

WH3 E1	0'-2'	3'-5'
alpha-BHC	**0.000221J**	<0.0000926
beta-BHC	**0.000800J**	**0.000259J**
delta-BHC	<0.000204	<0.000206
gamma-BHC	<0.0000978	<0.0000987

WH3 E2

WH3 N1	0'-2'	3'-5'
alpha-BHC	< 0.000164	< 0.000156
beta-BHC	**0.0477**	< 0.000205
delta-BHC	0.0112	< 0.000134
gamma-BHC	< 0.000169	< 0.000161

NW-SB-10	0'-2'	3'-5'
alpha-BHC	**1.69**	**0.166J**
beta-BHC	**10.7**	**4.83**
delta-BHC	**1.67**	**0.136J**
gamma-BHC	0.429J	**0.0663J**

WH3 E2	0'-2'	3'-5'
alpha-BHC	**0.00241**	<0.0000942
beta-BHC	**0.0151**	**0.000321J**
delta-BHC	**0.000851J**	<0.000209
gamma-BHC	**0.00112J**	<0.000100

WH3 E3

WH3 S1	0'-2'	3'-5'
alpha-BHC	**0.0047**	< 0.000155
beta-BHC	0.732	< 0.000203
delta-BHC	**0.00417**	< 0.000133
gamma-BHC	< 0.000168	< 0.000160

NW-SB-01	0'-2'	3'-5'
alpha-BHC	**3.26**	**0.00258J**
beta-BHC	2.72	**0.0696**
delta-BHC	0.0235J	< 0.00336
gamma-BHC	**0.0888**	< 0.00298

NW-SB-09	0'-2'	3'-5'
alpha-BHC	**23.9**	**0.261**
beta-BHC	**4.06J**	**0.348**
delta-BHC	**0.374J**	0.0587
gamma-BHC	0.761J	**0.152**

WH3 E3	0'-2'	3'-5'
alpha-BHC	**0.00288**	<0.0000937
beta-BHC	**0.0199**	<0.000186
delta-BHC	**0.00160J**	<0.000208
gamma-BHC	**0.00211**	<0.0001000

W.H.3

NW-SB-02	0'-2'	3'-5'
alpha-BHC	**0.0143J**	**0.0199J**
beta-BHC	< 0.0058	**0.00907J**
delta-BHC	< 0.00356	**0.00354**
gamma-BHC	< 0.00316	**0.00476J**

MW-14

MW-6

NW-SB-03	0'-2'	3'-5'
alpha-BHC	**16.1**	**0.127**
beta-BHC	**7.54**	**0.0593**
delta-BHC	< 0.183	0.0372
gamma-BHC	**0.533J**	**0.083**

WH3 E4

WH3 E4	0'-2'	3'-5'
alpha-BHC	**0.00134J**	<0.000109
beta-BHC	**0.00852**	**0.000611J**
delta-BHC	**0.000565J**	<0.000243
gamma-BHC	**0.00191J**	<0.000117

NW-SB-04	0'-2'	3'-5'
alpha-BHC	**0.568**	**0.233**
beta-BHC	**0.312**	**0.0269J**
delta-BHC	**0.112**	**0.106**
gamma-BHC	**0.365**	**0.389**

NW-SB-07	0'-2'	3'-5'
alpha-BHC	< 0.0106	< 0.0106
beta-BHC	< 0.0229	< 0.023
delta-BHC	< 0.0141	< 0.0141
gamma-BHC	< 0.0125	< 0.0125

NW-SB-08	0'-2'	3'-5'
alpha-BHC	< 0.0544	**0.0237**
beta-BHC	**5.28**	0.0804
delta-BHC	< 0.0725	< 0.00359
gamma-BHC	< 0.0643	**0.00341J**

NW-SB-06	0'-2'	3'-5'
alpha-BHC	**7.7**	**0.0846**
beta-BHC	**6.24**	**0.017J**
delta-BHC	**0.164J**	< 0.00359
gamma-BHC	1.27	**0.0628**

NW-SB-05	0'-2'	3'-5'
alpha-BHC	**6170**	**0.209**
beta-BHC	**815**	**0.161**
delta-BHC	**74.9**	**0.577**
gamma-BHC	**1430**	0.884

AOC 2

AOC 3

W.H.2

OFFICE

LEGEND:

- GPA PROPERTY LINE
- R.S.W. ROCK SALT WAREHOUSE
- W.H.3 WAREHOUSE 3
- AOC–2
- AOC–3
- EIC SOIL BORINGS, JUNE 2013
- PRE–VIRP SOIL BORINGS
- EIC SOIL BORINGS, DECEMBER 2014

NOTE: ALL CONCENTRATIONS REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg). VALUES IN BOLD INDICATE RESULTS ABOVE DETECTION LIMITS. ALL DECEMBER 2014 SOIL BORING LOCATIONS HAD SAMPLES TAKEN AT 0–2' and 3–5'.

* = SAMPLES NOT ANALYZED

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

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. Post–VIRP June 2013 sample locations based on survey by Donaldson Garret & Associates on 6/5/2013. December 2014 soil sample locations were based on December 2014 survey by DGA.

N

20 0 20 40 60 80

GRAPHICAL SCALE IN FEET
(APPROXIMATE)

FIGURE 4–2: LOCATION OF SOIL BORINGS AND SOIL SAMPLE RESULTS IN AOC–2

DESIGNED BY:	DRAWN BY:	CHECKED BY:
A.S.	W.G.	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	12/22/14	400007-4.2 – GPA BAINBRIDGE	

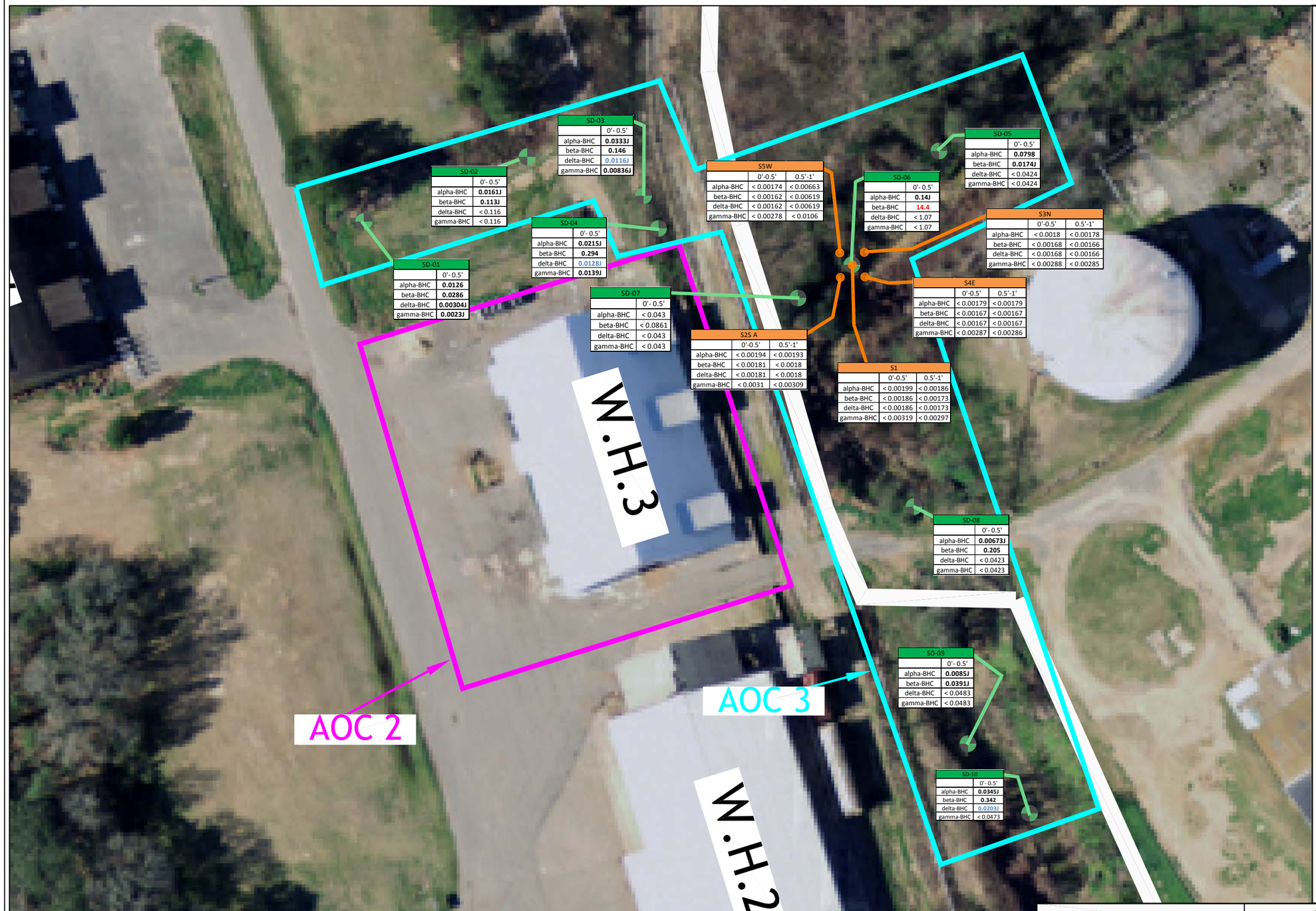


FIGURE 4–3: LOCATION OF SOIL BORINGS AND SOIL SAMPLE RESULTS IN AOC–3

LEGEND:

- GPA PROPERTY LINE
- R.S.W. — ROCK SALT WAREHOUSE
- W.H.3 — WAREHOUSE 3
- AOC–2
- AOC–3
- EIC SOIL BORINGS, JUNE 2013
- PRE–VIRP SOIL BORINGS

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

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. Post–VIRP June 2013 sample locations based on survey by Donaldson Garret & Associates on 6/5/2013.

N

20 0 20 40 60 80

GRAPHICAL SCALE IN FEET (APPROXIMATE)

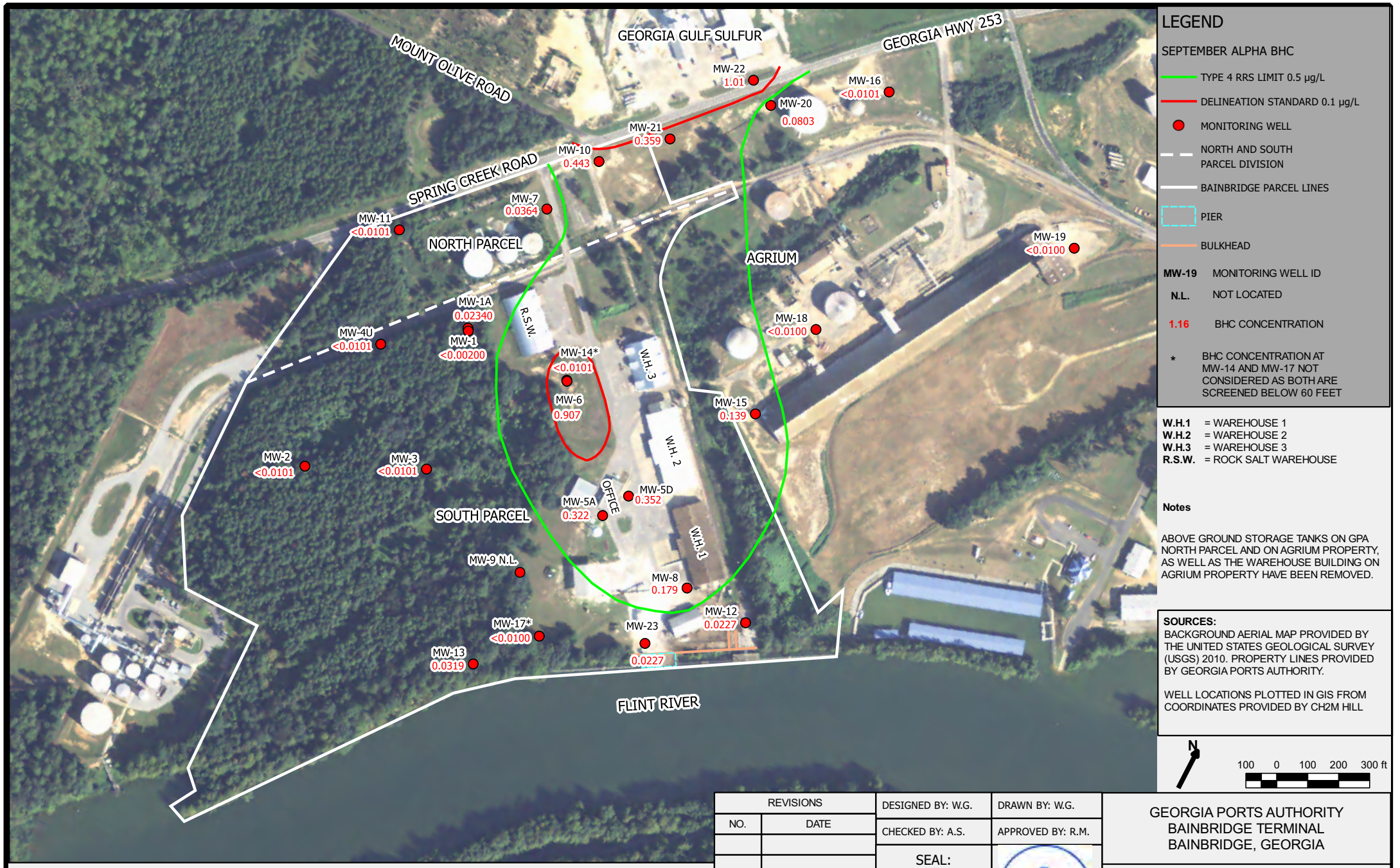
DESIGNED BY:	DRAWN BY:	CHECKED BY:
A.S.	W.G.	A.S.
APPROVED BY: R.M.		REVISIONS NO. / DATE

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	12/22/14	400007–4.2 – GPA BAINBRIDGE	



LEGEND

SEPTEMBER ALPHA BHC

- TYPE 4 RRS LIMIT 0.5 µg/L
- DELINEATION STANDARD 0.1 µg/L
- MONITORING WELL
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER
- BULKHEAD

MW-19 MONITORING WELL ID

N.L. NOT LOCATED

1.16 BHC CONCENTRATION

* BHC CONCENTRATION AT MW-14 AND MW-17 NOT CONSIDERED AS BOTH ARE SCREENED BELOW 60 FEET

W.H.1 = WAREHOUSE 1
W.H.2 = WAREHOUSE 2
W.H.3 = WAREHOUSE 3
R.S.W. = ROCK SALT WAREHOUSE

Notes

ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE BUILDING ON AGRIUM PROPERTY HAVE BEEN REMOVED.

SOURCES:
BACKGROUND AERIAL MAP PROVIDED BY THE UNITED STATES GEOLOGICAL SURVEY (USGS) 2010. PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.

WELL LOCATIONS PLOTTED IN GIS FROM COORDINATES PROVIDED BY CH2M HILL

N

100 0 100 200 300 ft

FIGURE 4-4: SEPTEMBER 2014 ALPHA-BHC ISOCONCENTRATION MAP

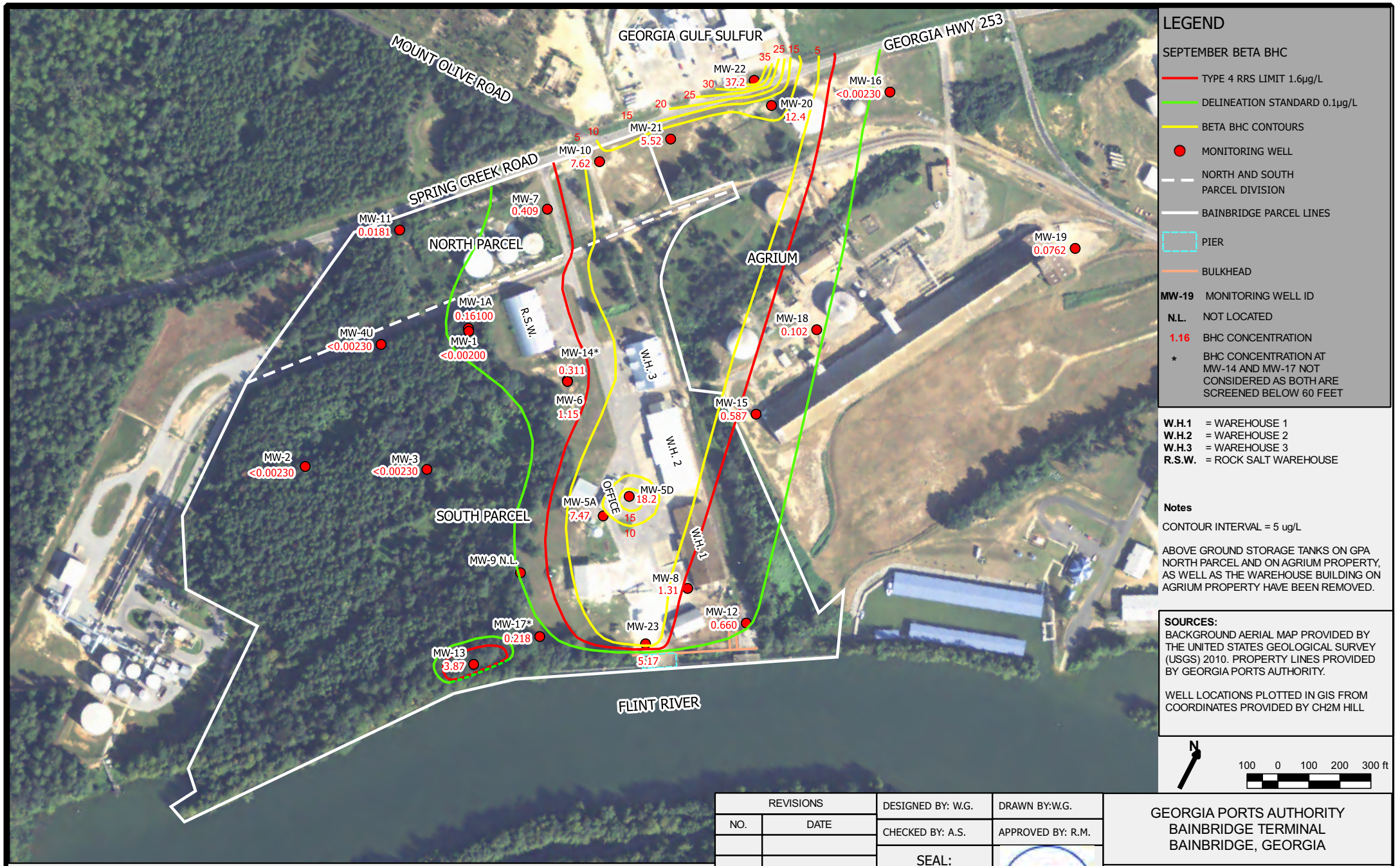
REVISIONS	
NO.	DATE

DESIGNED BY: W.G. | DRAWN BY: W.G.
CHECKED BY: A.S. | APPROVED BY: R.M.
SEAL:

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

ENVIRONMENTAL INTERNATIONAL CORPORATION
161 KIMBALL BRIDGE ROAD
ALPHARETTA, GEORGIA 30009

Scale: SEE BAR | Date: 10/23/2014 | File: 400007 - 4.5 - GPA Bainbridge | SHEET NO.: 1



LEGEND

SEPTEMBER BETA BHC

- TYPE 4 RRS LIMIT 1.6µg/L
- DELINEATION STANDARD 0.1µg/L
- BETA BHC CONTOURS
- MONITORING WELL
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER
- BULKHEAD

MW-19 MONITORING WELL ID

N.L. NOT LOCATED

1.16 BHC CONCENTRATION

* BHC CONCENTRATION AT MW-14 AND MW-17 NOT CONSIDERED AS BOTH ARE SCREENED BELOW 60 FEET

W.H.1 = WAREHOUSE 1
W.H.2 = WAREHOUSE 2
W.H.3 = WAREHOUSE 3
R.S.W. = ROCK SALT WAREHOUSE

Notes

CONTOUR INTERVAL = 5 ug/L

ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE BUILDING ON AGRIUM PROPERTY HAVE BEEN REMOVED.

SOURCES:
BACKGROUND AERIAL MAP PROVIDED BY THE UNITED STATES GEOLOGICAL SURVEY (USGS) 2010. PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.

WELL LOCATIONS PLOTTED IN GIS FROM COORDINATES PROVIDED BY CH2M HILL

N

100 0 100 200 300 ft

FIGURE 4-5: SEPTEMBER 2014 BETA-BHC ISOCONCENTRATIONS MAP

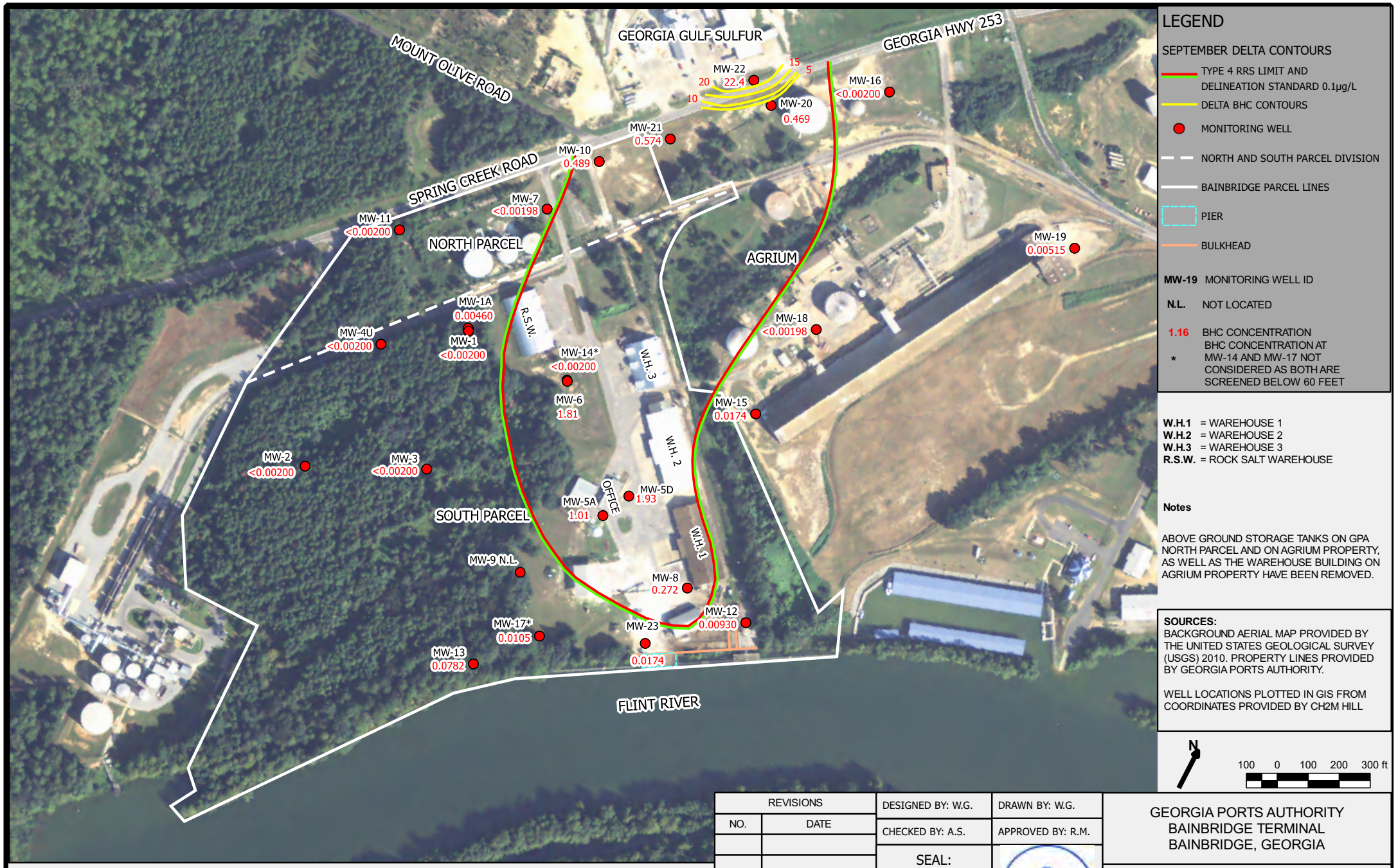
REVISIONS	
NO.	DATE

DESIGNED BY: W.G. | DRAWN BY:W.G.
CHECKED BY: A.S. | APPROVED BY: R.M.
SEAL:

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

ENVIRONMENTAL INTERNATIONAL CORPORATION
161 KIMBALL BRIDGE ROAD
ALPHARETTA, GEORGIA 30009

Scale: SEE BAR | Date: 10/23/2014 | File: 400007 - 4.5 - GPA Bainbridge | SHEET NO.: 1



LEGEND

SEPTEMBER DELTA CONTOURS

- TYPE 4 RRS LIMIT AND DELINEATION STANDARD 0.1µg/L
- DELTA BHC CONTOURS
- MONITORING WELL
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER
- BULKHEAD

MW-19 MONITORING WELL ID

N.L. NOT LOCATED

1.16 BHC CONCENTRATION

* BHC CONCENTRATION AT MW-14 AND MW-17 NOT CONSIDERED AS BOTH ARE SCREENED BELOW 60 FEET

W.H.1 = WAREHOUSE 1
W.H.2 = WAREHOUSE 2
W.H.3 = WAREHOUSE 3
R.S.W. = ROCK SALT WAREHOUSE

Notes

ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE BUILDING ON AGRIUM PROPERTY HAVE BEEN REMOVED.

SOURCES:
BACKGROUND AERIAL MAP PROVIDED BY THE UNITED STATES GEOLOGICAL SURVEY (USGS) 2010. PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.

WELL LOCATIONS PLOTTED IN GIS FROM COORDINATES PROVIDED BY CH2M HILL

N

100 0 100 200 300 ft

FIGURE 4-6: SEPTEMBER 2014 ALPHA-BHC ISOCONCENTRATION MAP

REVISIONS	
NO.	DATE

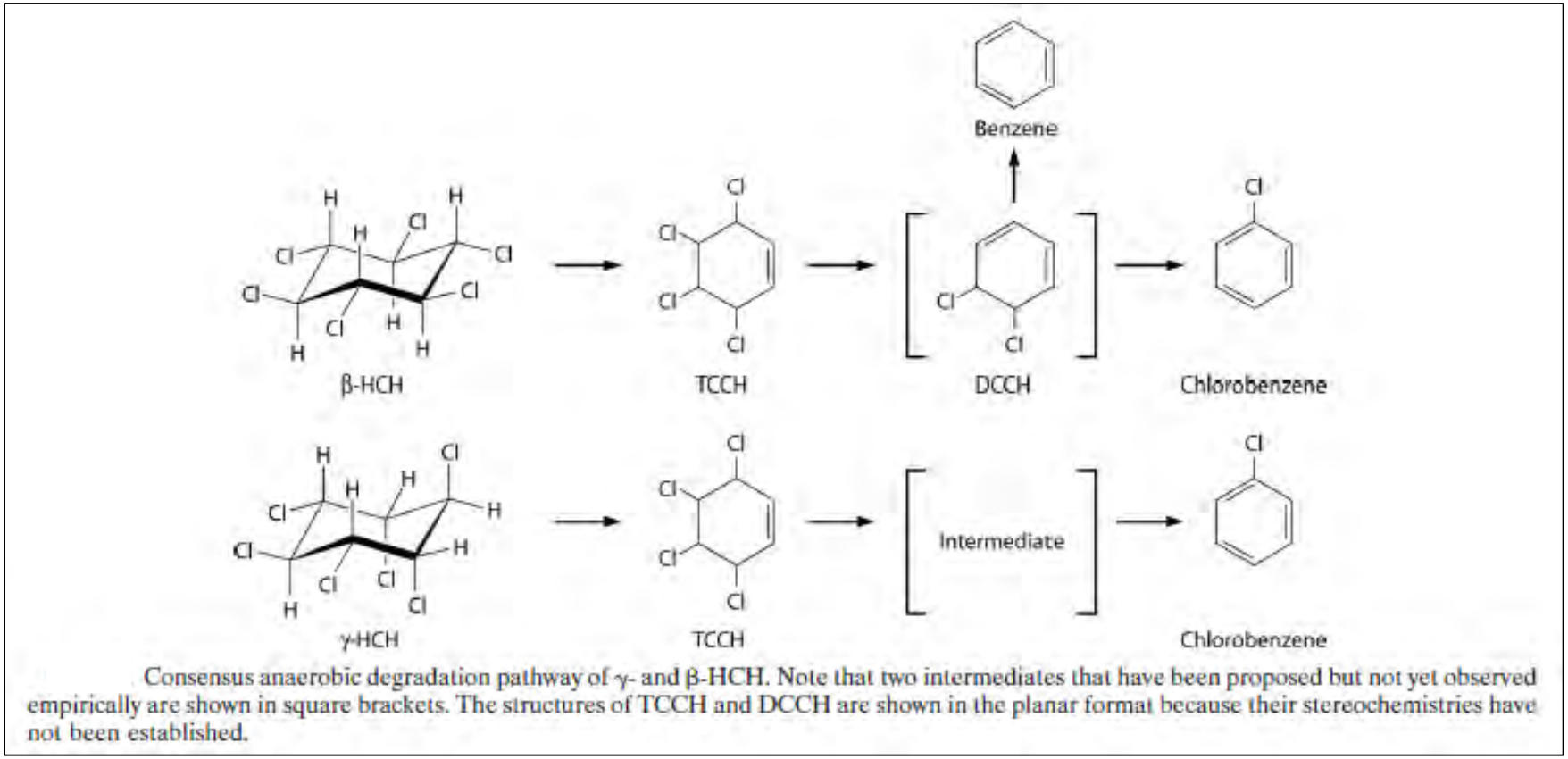
DESIGNED BY: W.G. | DRAWN BY: W.G.
CHECKED BY: A.S. | APPROVED BY: R.M.
SEAL:

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

ENVIRONMENTAL INTERNATIONAL CORPORATION
161 KIMBALL BRIDGE ROAD
ALPHARETTA, GEORGIA 30009

Scale: SEE BAR | Date: 10/23/2014 | File: 400007 - 4.5 - GPA Bainbridge | SHEET NO.: 1

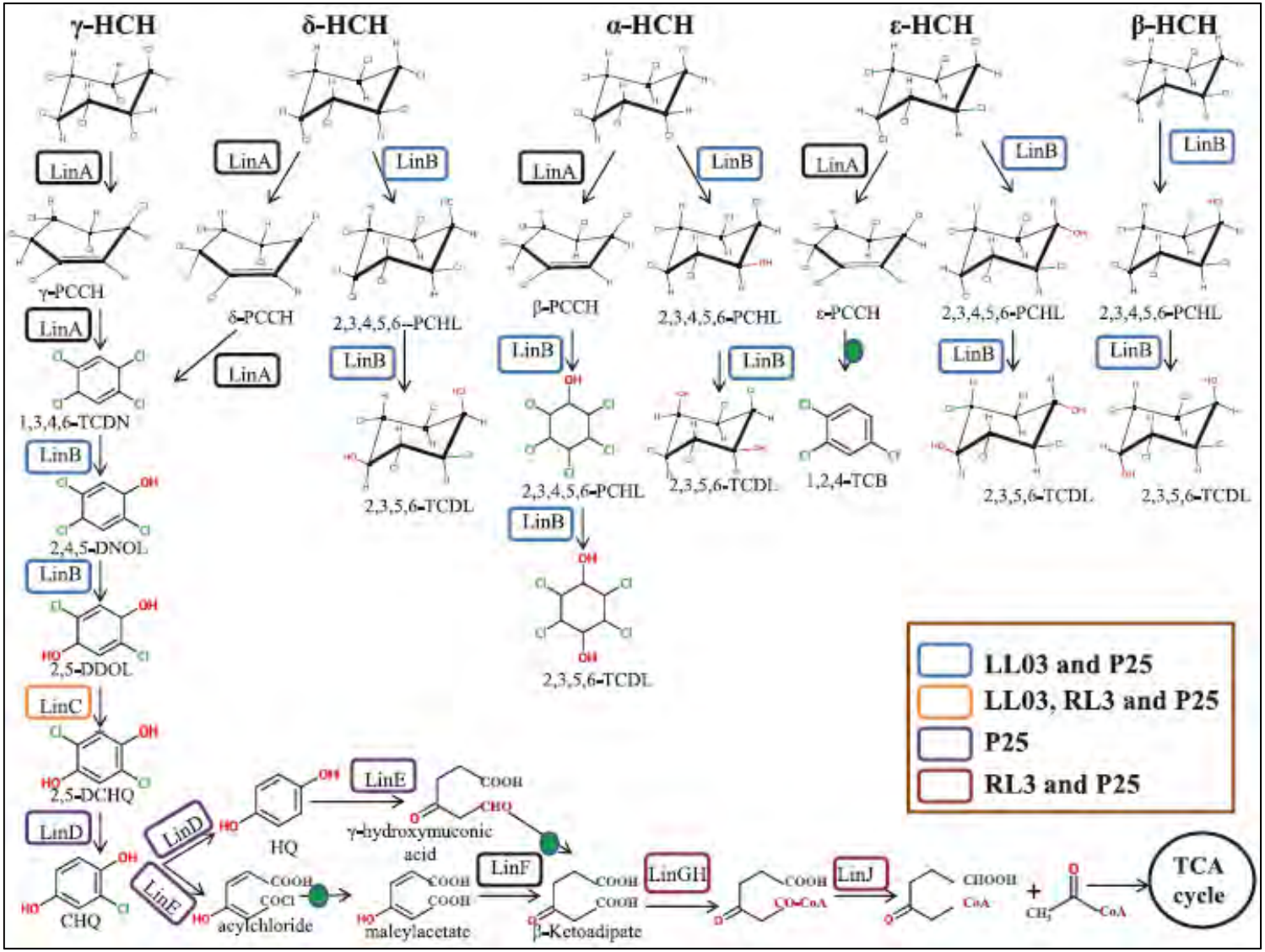
Figure 5-1: Anaerobic Degradation Pathway



Consensus anaerobic degradation pathway of γ- and β-HCH. Note that two intermediates that have been proposed but not yet observed empirically are shown in square brackets. The structures of TCCH and DCCH are shown in the planar format because their stereochemistries have not been established.

Source: Lal, R., Pandey, G., Sharma, P., Kumari, K., Malhotra, S., Pandey, R., Raina, V., Kohler, HE., Holliger, C., Jackson, C., Oakeshott, JG. "*Biochemistry of Microbial Degradation of Hexachlorocyclohexane and Prospects for Bioremediation"* Microbiology and Molecular Biology Reviews, (2010) p. 58–80

Figure 5-2: Aerobic Degradation Pathway



Degradation of α-, β-, γ-, δ- and ε-HCH mediated by *lin* Pathway in *Sphingobium* spp. Each color that encircles a specific *lin* gene depicts that the pathway is blocked within these *Sphingobium* strains. The compounds that are formed during HCH degradation are broadly known as PCCH: pentachlorocyclohexane, PCHL: pentachlorocyclohexanol, TCDN: tetrachloro-1,4-cyclohexadiene, DNOL: trichloro-2,5-cyclohexadiene-1-ol, DDOL: dichloro-2,5-cyclohexadiene-1,4-diol, TCDL: tetrachlorocyclohexanediol, DCHQ: dichlorohydroquinone, CHQ: chlorohydroquinone, HQ: hydroquinone. Green dots represent spontaneous reaction.

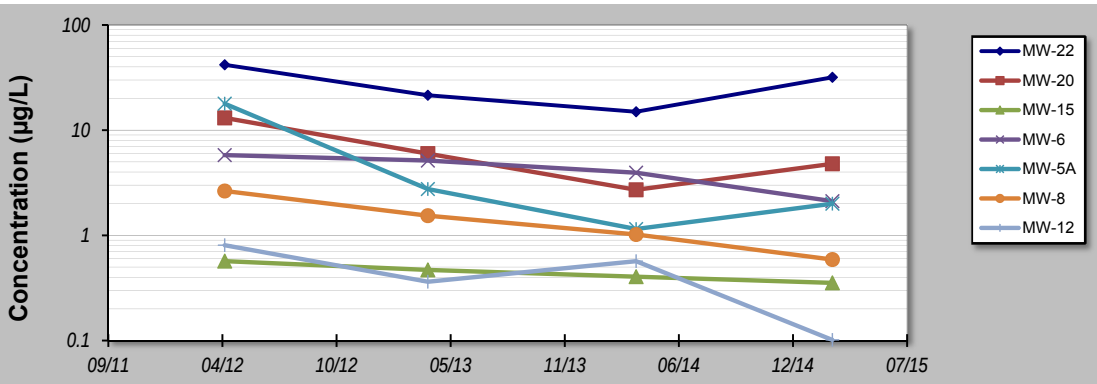
Source: Verma, H., Kumar, R., Oldach, P., Sangwan, N., Khurana, JP., Gilbert, JA., Lal, R. 2014. *Comparative genomic analysis of nine Sphingobium strains: insights into their evolution and hecachlorochyclohexane (HCH) degradation pathways*. BMC Genomics, 2014.

Figure 5-3: Total BHC Degradation Trend Analysis

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	20-Apr-15	Job ID:	400007-4.5
Facility Name:	GPA - Bainbridge Terminal	Constituent:	Total-BHC
Conducted By:	EIC	Concentration Units:	µg/L

Sampling Point ID:	MW-22	MW-20	MW-15	MW-6	MW-5A	MW-8	MW-12
Sampling Event	Sampling Date	TOTAL-BHC CONCENTRATION (µg/L)						
1	5-Apr-12	41.83	13.08	0.57	5.79	17.85	2.64	0.81
2	27-Mar-13	21.48	5.98	0.47	5.14	2.76	1.54	0.36
3	27-Mar-14	14.96	2.71	0.40	3.94	1.15	1.02	0.57
4	6-Mar-15	31.81	4.79	0.35	2.11	2.00	0.59	0.10
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Coefficient of Variation:		0.43	0.68	0.21	0.38	1.34	0.61	0.65
Mann-Kendall Statistic (S):		-2	-4	-6	-6	-4	-6	-4
Confidence Factor:		62.5%	83.3%	95.8%	95.8%	83.3%	95.8%	83.3%
Concentration Trend:		Stable	Stable	Decreasing	Decreasing	No Trend	Decreasing	Stable



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.

DISCLAIMER: The GSI Mann-Kendall Toolkit is available "as is". Considerable care has been exercised in preparing this software product; however, no party, including without limitation GSI Environmental Inc., makes any representation or warranty regarding the accuracy, correctness, or completeness of the information contained herein, and no such party shall be liable for any direct, indirect, consequential, incidental or other damages resulting from the use of this product or the information contained herein. Information in this publication is subject to change without notice. GSI Environmental Inc., disclaims any responsibility or obligation to update the information contained herein.

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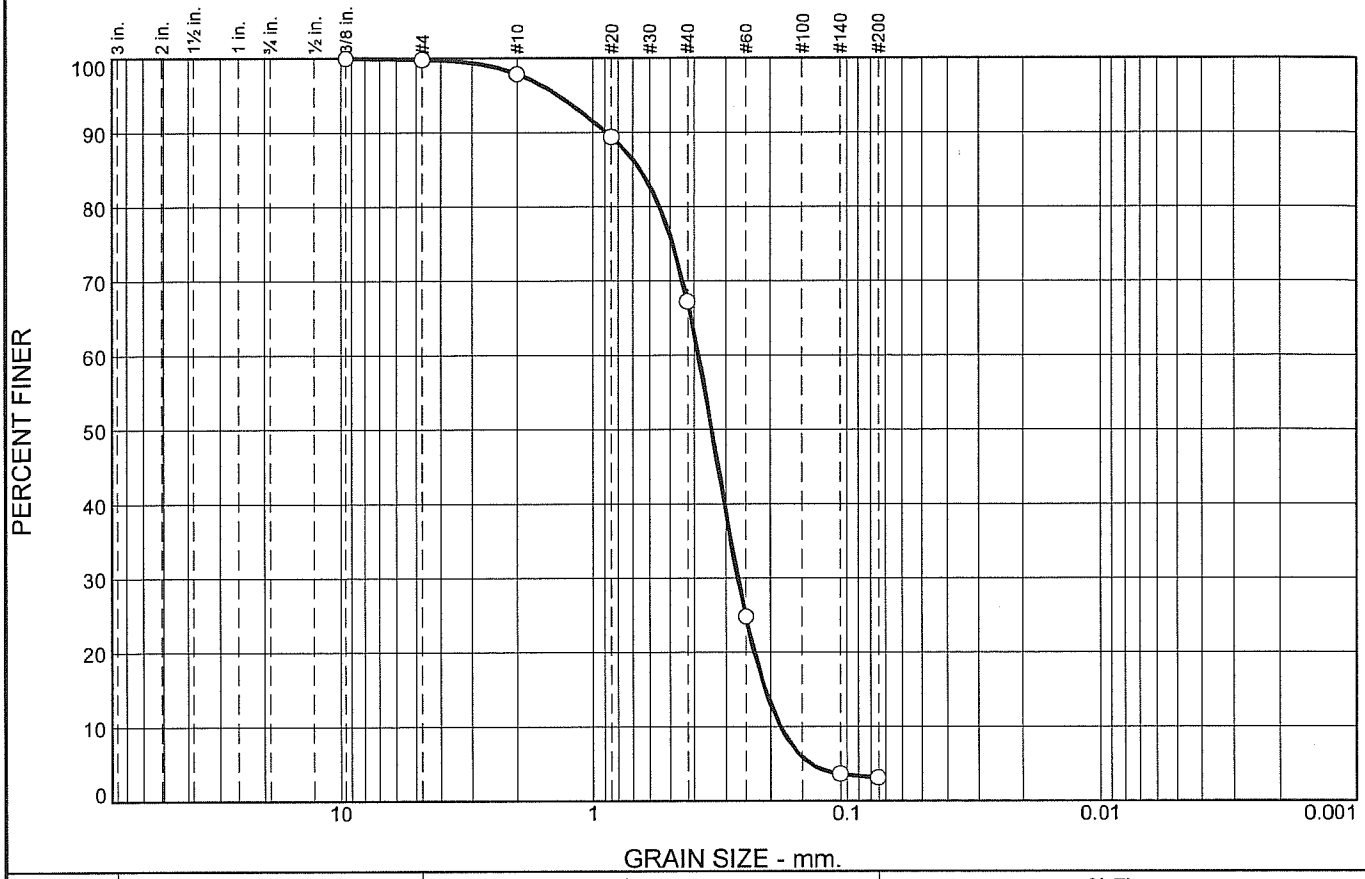
HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

SITE CONCEPTUAL MODEL REPORT

ATTACHMENT A
MW-23 SIEVE ANALYSIS RESULTS

Attachment A: MW-23 Sieve Analysis Results

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.2	1.9	30.7	64.1	3.1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/8"	100.0		
#4	99.8		
#10	97.9		
#20	89.4		
#40	67.2		
#60	24.8		
#140	3.7		
#200	3.1		

* (no specification provided)

Brown tan silty SAND

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 0.8884 D_{85}= 0.6525 D_{60}= 0.3849
D_{50}= 0.3412 D_{30}= 0.2686 D_{15}= 0.2091
D_{10}= 0.1821 C_u= 2.11 C_c= 1.03

Classification

USCS= SP AASHTO=

Remarks

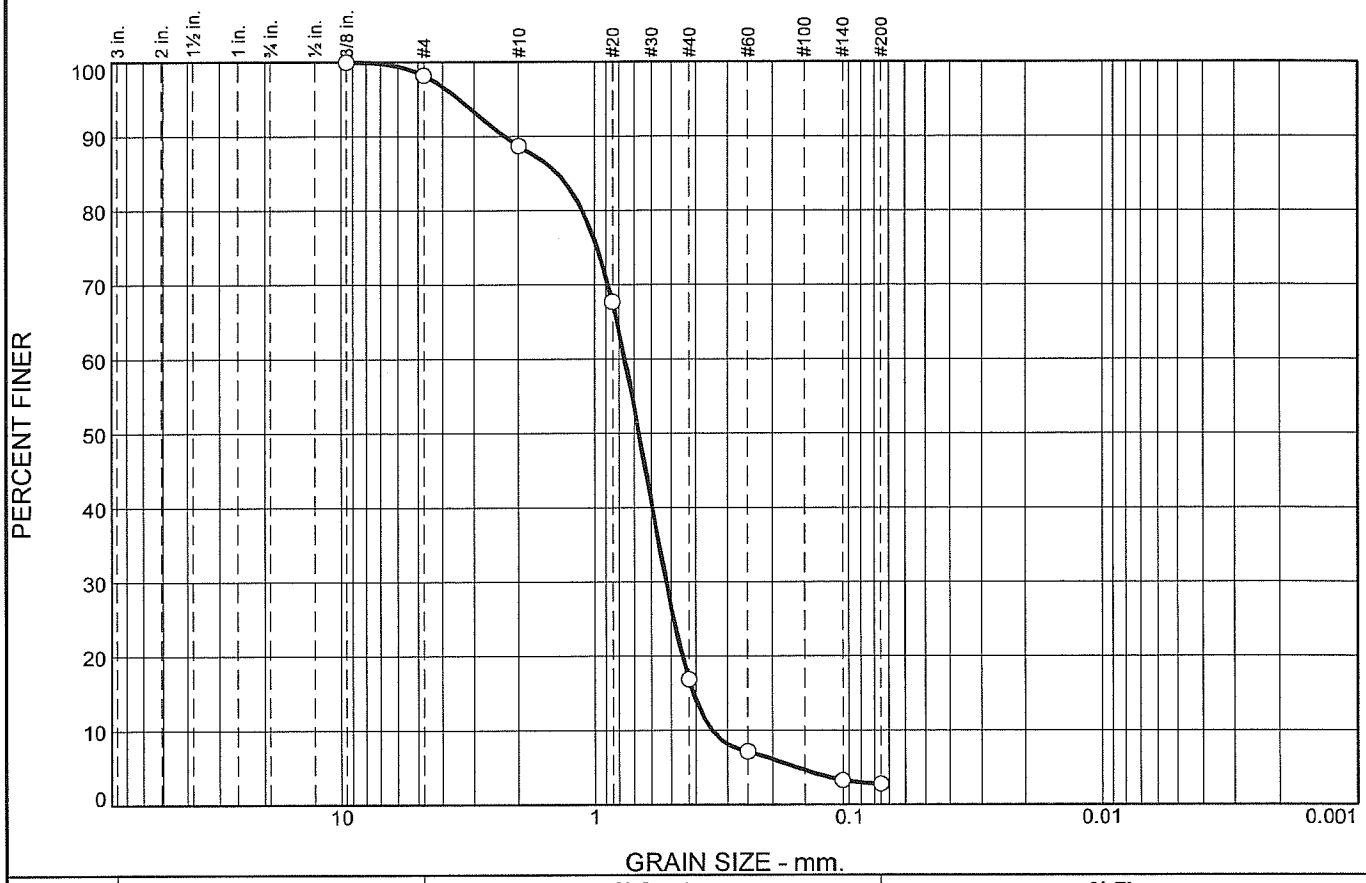
Location: MW23
Sample Number: 2 **Depth:** 14.5'-15' **Date:** 05/15/14

PIEDMONT
GEOTECHNICAL CONSULTANTS
Roswell, Georgia

Client: EIC
Project: Environment International Corporation
Project No: 114132 **Figure** 3

Tested By: K.Herbert

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	1.8	9.5	71.8	14.1	2.8	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/8"	100.0		
#4	98.2		
#10	88.7		
#20	67.7		
#40	16.9		
#60	7.2		
#140	3.3		
#200	2.8		

* (no specification provided)

Brown tan silty SAND

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 2.2673 D_{85}= 1.3979 D_{60}= 0.7592
D_{50}= 0.6686 D_{30}= 0.5221 D_{15}= 0.4074
D_{10}= 0.3444 C_u= 2.20 C_c= 1.04

Classification

USCS= SP AASHTO=

Remarks

Location: MW23
Sample Number: 5 **Depth:** 22'-23' **Date:** 05/15/14

PIEDMONT
GEOTECHNICAL CONSULTANTS
Roswell, Georgia

Client: EIC
Project: Environment International Corporation

Project No: 114132 **Figure** 6

Tested By: K. Herbert

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

SITE CONCEPTUAL MODEL REPORT

ATTACHMENT B
BHC FACT SHEET

Attachment B: BHC Fact Sheet

TOXICOLOGICAL PROFILE FOR ALPHA-, BETA-, GAMMA-, AND DELTA-HEXACHLOROCYCLOHEXANE

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
Agency for Toxic Substances and Disease Registry

August 2005

4. CHEMICAL AND PHYSICAL INFORMATION

4.1 CHEMICAL IDENTITY

HCH consists of eight isomers (Safe 1993). Only γ-HCH, α-HCH, β-HCH, and δ-HCH are of commercial significance and considered in this profile. The pesticide lindane refers to products that contain >99% γ-HCH. The α-, β-, and δ-isomers, as well as technical-grade HCH are not synonymous with γ-HCH (Farm Chemicals Handbook 1993). Technical-grade HCH is not an isomer of HCH, but rather a mixture of several isomers; it consists of approximately 60–70% α-HCH, 5–12% β-HCH, 10–15% γ-HCH, 6–10% δ-HCH, and 3–4% ε-HCH (Kutz et al. 1991). Information regarding the chemical identities of γ-HCH, α-HCH, β-HCH, and δ-HCH is located in Table 4-1.

4.2 PHYSICAL AND CHEMICAL PROPERTIES

Information regarding the physical and chemical properties of γ-HCH, α-HCH, β-HCH, and δ-HCH is located in Table 4-2.

Table 4-1. Chemical Identity of Hexachlorocyclohexane Isomers[a]

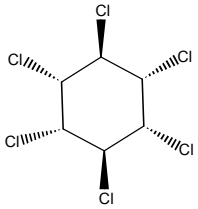
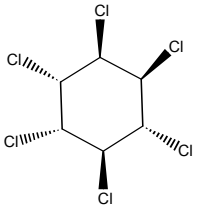
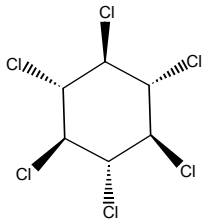
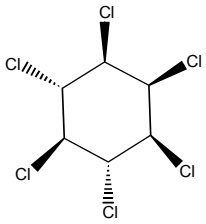
Characteristic	γ-hexachlorocyclohexane	α-hexachlorocyclohexane
Synonym(s)	Lindane; 1-alpha, 2-alpha, 3-beta, 4-alpha, 5-alpha, 6-beta-hexachlorocyclohexane; benzene hexachloride-gamma-isomer; BHC; cyclohexane 1,2,3,4,5,6-hexachloro-gamma-isomer; ENT 7796; gamma-benzene hexachloride; gamma-BHC; gamma-hexachlorocyclohexane; gamma-1,2,3,4,5,6-hexachlorocyclohexane; gamma-HCH; gamma-lindane; HCH; HCCH; hexachlorocyclohexane, gamma-isomer; 1,2,3,4,5,6-hexachlorocyclohexane, gamma-isomer[b]	1-alpha, 2-alpha, 3-beta, 4-alpha, 5-beta, 6-beta-benzene-trans-hexachloride; alpha-1,2,3,4,5,6-hexachlorocyclohexane; alpha-benzene hexachloride; alpha-BHC; alpha-HCH; alpha-hexachloran; alpha-hexachlorane; alpha-hexachlorocyclohexane; alpha-lindane; benzenehexachloride-alpha-isomer; cyclohexane 1,2,3,4,5,6-(alpha, DL); cyclohexane 1,2,3,4,5,6-hexachloro, alpha-; cyclohexane 1,2,3,4,5,6-hexachloro-, alpha-isomer; cyclohexane, alpha-1,2,3,4,5,6-hexachloro; ENT 9232[b]
Registered trade name(s)	Etan 3G (Diachem S.P.A.); Forlin; Gamaphex; Isotox (Chevron Chemical Co.); Germate Plus (Gustafson Inc.); Gamma-Mean 400 and Gamma Mean L. (Oregon-California Chemicals, Inc.); Hammer (Exsin Industries); Lindagam; Novigam; Silvanol[c]; Kwell (pharmaceutical shampoo/lotion)[d]	No data
Chemical formula	$C_6H_6Cl_6$	$C_6H_6Cl_6$[b]
Chemical structure		
Identification numbers:		
CAS registry	58-89-9	319-84-6
NIOSH RTECS	GV4900000	GV3500000
EPA hazardous waste	U129; D013	No data
OHM/TADS	7216531	810002
DOT/UN/NA/IMCO shipping	NA 2761 lindane; IMCO 6.1 lindane; UN 2761, organochlorine pesticides, solid toxic, not otherwise specified	No data
HSDB	646	6029
NCI	C00204	No data

Table 4-1. Chemical Identity of Hexachlorocyclohexane Isomers[a]

Characteristic	β-hexachlorocyclohexane	δ-hexachlorocyclohexane
Synonym(s)	1-alpha, 2-beta, 3-alpha, 4-beta, 5-aplha, 6-beta-hexachlorocyclohexane; beta 1,2,3,4,5,6-hexachlorocyclohexane; beta-benzenehexachloride; beta-BHC; beta HCH; beta-hexachloran; beta-hexachlorobenzene; beta-lindane; cyclohexane, 1,2,3,4,5,6-hexachloro-, beta-; cyclohexane, 1,2,3,4,5,6-hexachloro-, beta-isomer; cyclohexane, 1,2,3,4,5,6-hexachloro-, trans-; cyclohexane, beta-1,2,3,4,5,6-hexachloro-; ENT 9233; trans-alpha-benzenehexachloride[b]	1-alpha,2-alpha,3-alpha, 4-beta, 5-alpha, 6-beta-hexachlorocyclohexane; cyclohexane, 1,2,3,4,5,6-hexachloro-, delta-isomer; cyclohexane, delta-1,2,3,4,5,6-hexachloro-; delta-(AEEEEE)- 1,2,3,4,5,6-hexachlorocyclohexane; delta-benzenehexachloride; delta-BHC; delta-HCH; delta-1,2,3,4,5,6-hexachlorocyclohexane; delta-lindane; ENT 9234[b]
Registered trade name(s)	No data	No data
Chemical formula	$C_6H_6Cl_6$	$C_6H_6Cl_6$
Chemical structure		
Identification numbers:		
CAS registry	319-85-7	319-86-8
NIOSH RTECS	GV4375000	GV4550000
EPA hazardous waste	No data	No data
OHM/TADS	No data	No data
DOT/UN/NA/IMCO shipping	No data	No data
HSDB	6183	6184
NCI	No data	No data

[a]All information obtained from HSDB 1997 except where noted.
[b]RTECS 1993
[c]Farm Chemicals Handbook 1993
[d]Budavari et al. 1989

CAS = Chemical Abstracts Service; DOT/UN/NA/IMCO = Department of Transportation/United Nations/North America/International Maritime Dangerous Goods Code; EPA = Environmental Protection Agency; HSDB = Hazardous Substances Data Bank; NCI = National Cancer Institute; NIOSH = National Institute for Occupational Safety and Health; OHM/TADS = Oil and Hazardous Materials/Technical Assistance Data System; RTECS = Registry of Toxic Effects of Chemical Substances

Table 4-2. Physical and Chemical Properties of Hexachlorocyclohexane Isomers

Property	γ-hexachlorocyclo-hexane	α-hexachlorocyclo-hexane	β-hexachlorocyclo-hexane	δ-hexachlorocyclo-hexane
Molecular weight	290.83[a]	290.83[a]	290.83[a]	290.83[a]
Color	White[b]	Brownish to white[c]	No data	No data
Physical state	Crystalline solid[d]; monoclinic prisms[b]	Crystalline solid[c]; monclinic prisms[a]	Crystalline solid[a,d]	Fine plates[a,b]
Melting point	112.5 °C[a,e]	159–160 °C[a]	314–315 °C[a]	141–142 °C[a]
Boiling point	323.4 °C at 760 mmHg[c]	288 °C at 760 mmHg[c]	60 °C at 0.5 mmHg[a]	60 °C at 0.36 mmHg[a]
Density (g/cm^3)	1.89 at 19 °C[f]	1.87 at 20 °C[a]	1.89 at 19 °C[a]	No data
Odor	Slightly musty odor[c]	Phosgene-like odor[c]	No data	No data
Odor threshold:				
Water	12 mg/kg[g]	0.88 ppm for unspecified purity[h]	0.00032 mg/kg[g]	No data
Air	No data	No data	No data	No data
Solubility:				
Water	17 ppm[i]; insoluble in water[c]	10 ppm[j]; 69.5 mg/L at 28 °C[k]	5 ppm[j]	10 ppm[j]
Organic solvents	6.4 g/100 g in ethanol; 20.8 g/100 g in ether; 28.9 g/100 g in benzene[j]	Soluble in alcohol[k]; 1.8 g/100 g in ethanol[j]; 6.2 g/100 g in ether[j]	1.1 g/100 g in ethanol; 1.8 g/100 g in ether; 1.9 g/100 g in benzene[j]	24.4 g/100 g in ethanol; 35.4 g/100 g in ether; 41.4 g/100 g in benzene[j]
Partition coefficients:				
Log K_{ow}	3.72[l]	3.8[l]	3.78[l]	4.14[l]
Log K_{oc}	3.0[m]; 3.57[f]	3.57[f]	3.57[m]	3.8[f]
Vapor pressure	4.2x10^{-5} mmHg at 20 °C[c]	4.5x10^{-5} mmHg at 25 °C[c]	3.6x10^{-7} at 20 °C[c]	3.5x10^{-5} at 25 °C[c]
Henry's law constant	3.5x10^{-6}[c]	6.86x10^{-6}[c]	4.5x10^{-7}[m,n]	2.1x10^{-7}[o,p]
Autoignition temperature	Not flammable[c]	No data	No data	No data
Flashpoint	Approximately 150 °F (closed cup)[c]	No data	No data	No data
Flammability limits	Not flammable[c]	No data	No data	No data
Conversion factors[q]	ppm to mg/m^3 in air (20°C): ppm x 4.96 = mg/m^3; mg/m^3 to ppm in air (20°C): mg/m^3 x 0.20 = ppm			
Explosive limits	No data	No data	No data	No data

[a]Lide 1991
[b]Kirk-Othmer 1985
[c]HSDB 2003
[d]IARC 1979
[e]Budavari et al. 1989
[f]Weiss 1986
[g]Verschueren 1983
[h]Fazzalari 1978
[i]Hollifield 1979
[j]Clayton and Clayton 1981
[k]Kuihara et al. 1973
[l]Hansch and Leo 1995
[m]Ripping 1972
[n]Veith et al. 1979
[o]Pankow et al. 1984
[p]EPA 1982
[q]Same for all isomers

SITE CONCEPTUAL MODEL REPORT

APPENDIX A
POTENTIAL ECOLOGICAL RECEPTORS 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

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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

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No.	Date	Checked By: A.S.	Approved By: R.M.
		Seal:	EIC

Georgia Ports Authority
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Bainbridge, Georgia

Environmental International Corp.
161 Kimball Bridge Road
Alpharetta, Georgia 30009

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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

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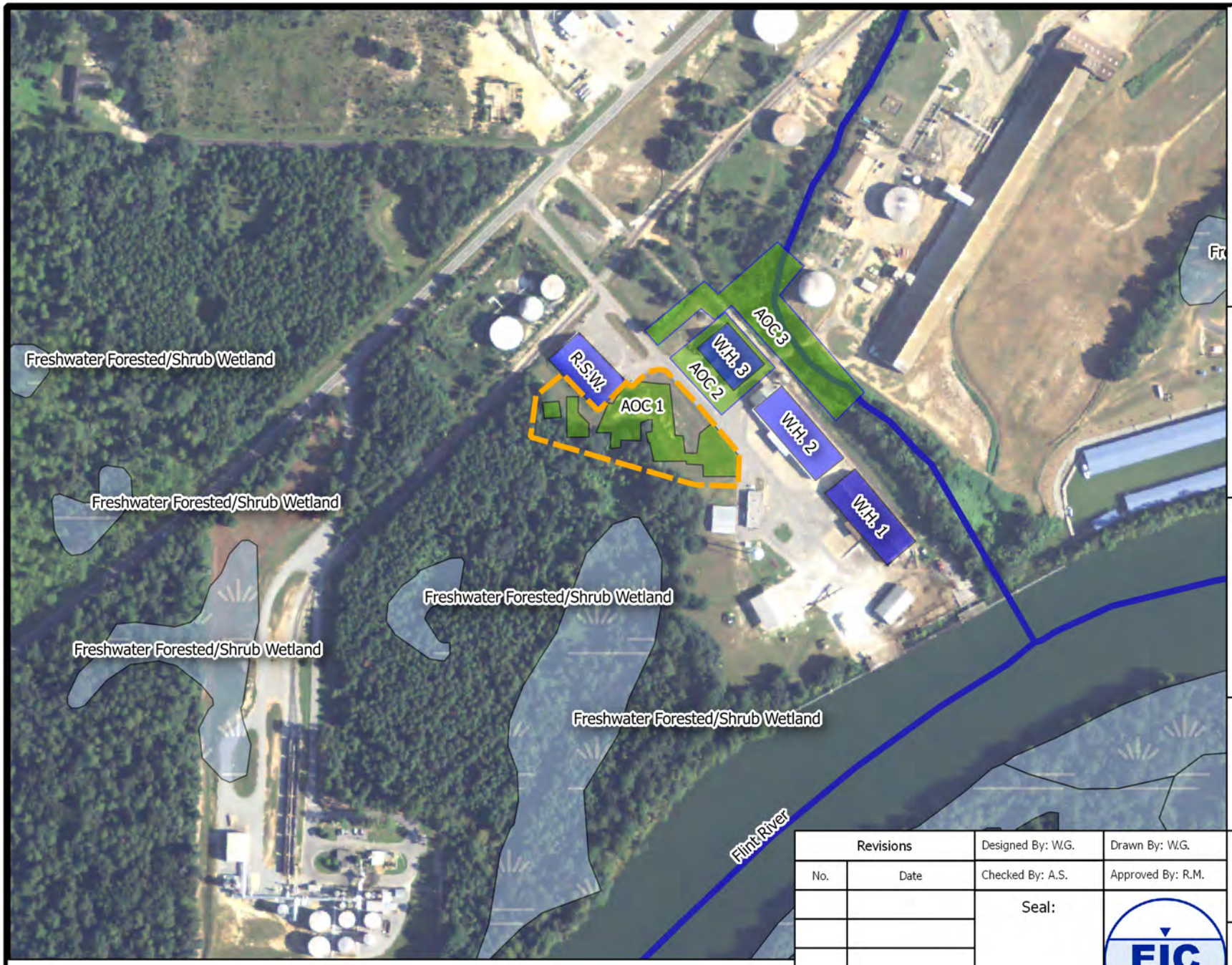

Legend

- 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

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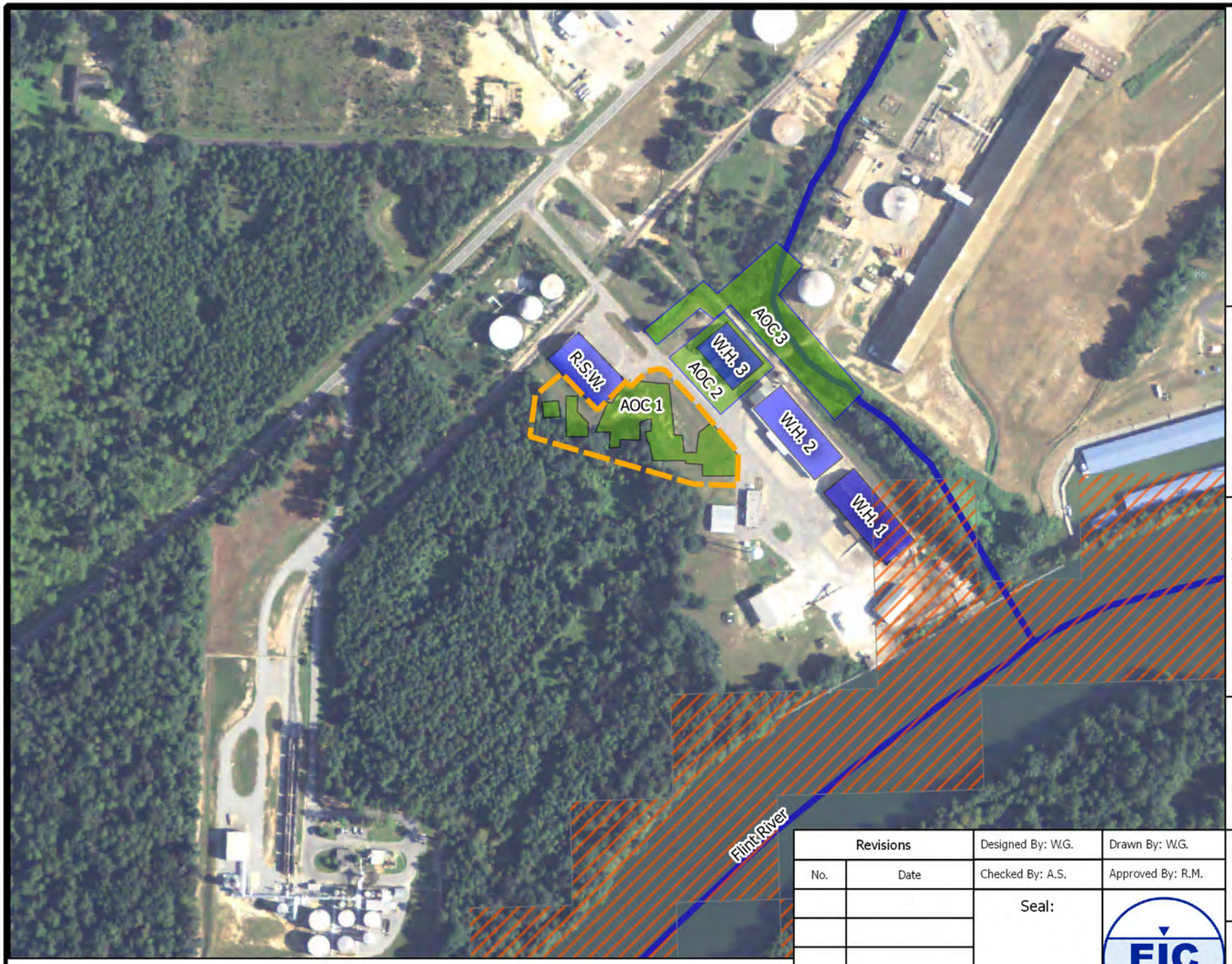

Legend

- 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

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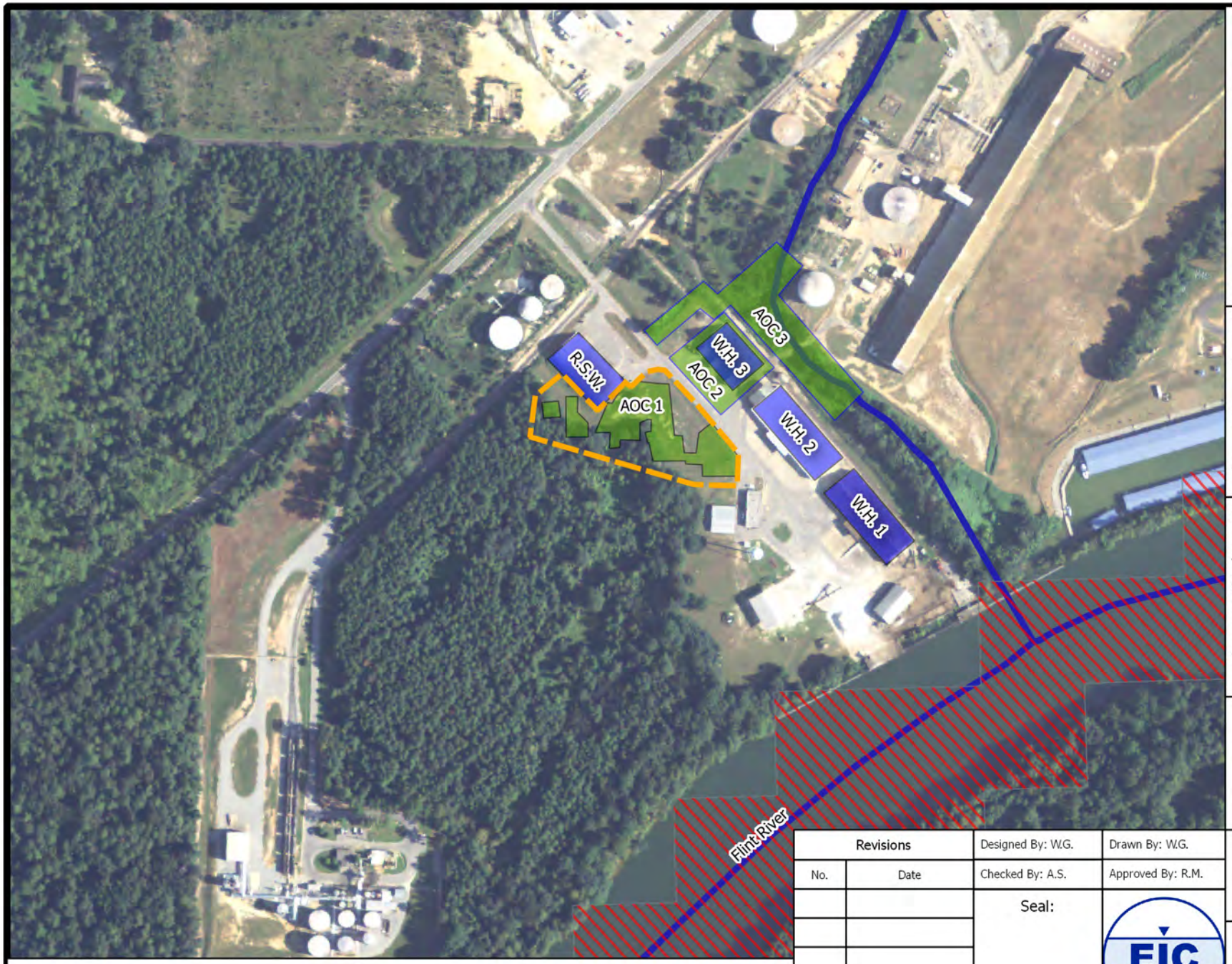

Legend

- 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

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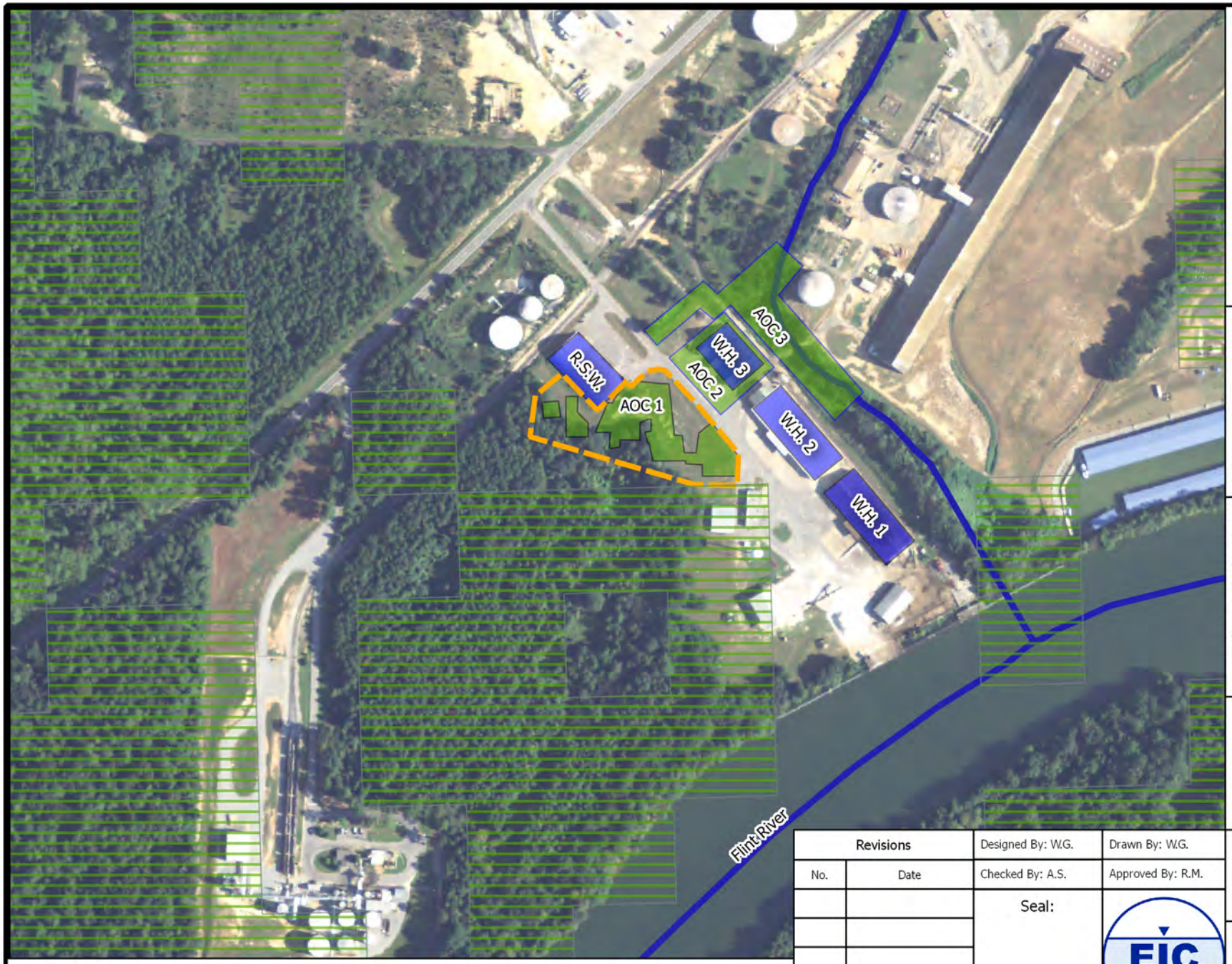
Figure 5: Aligator Snapping Turtle Habitat



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

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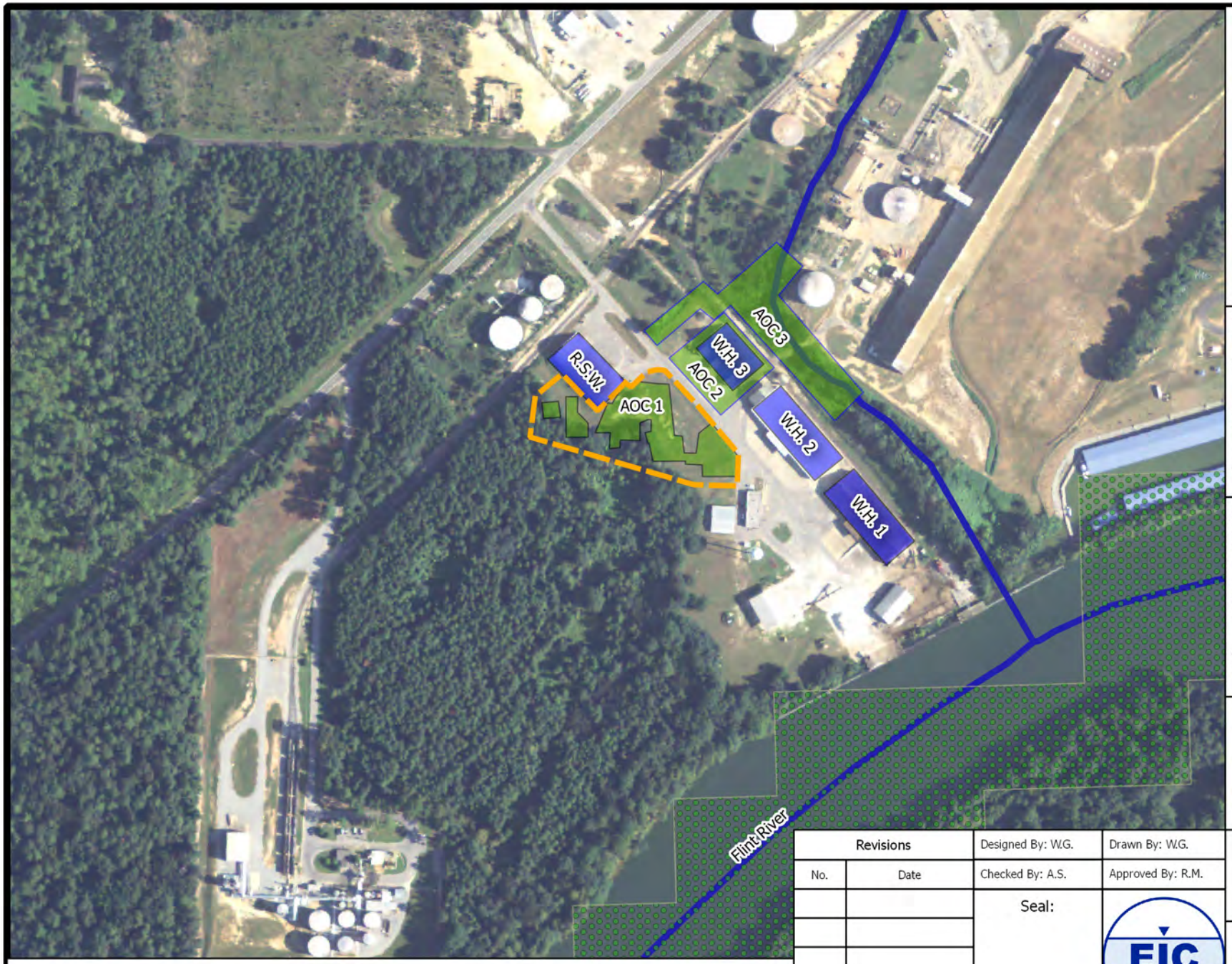

Legend

- 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

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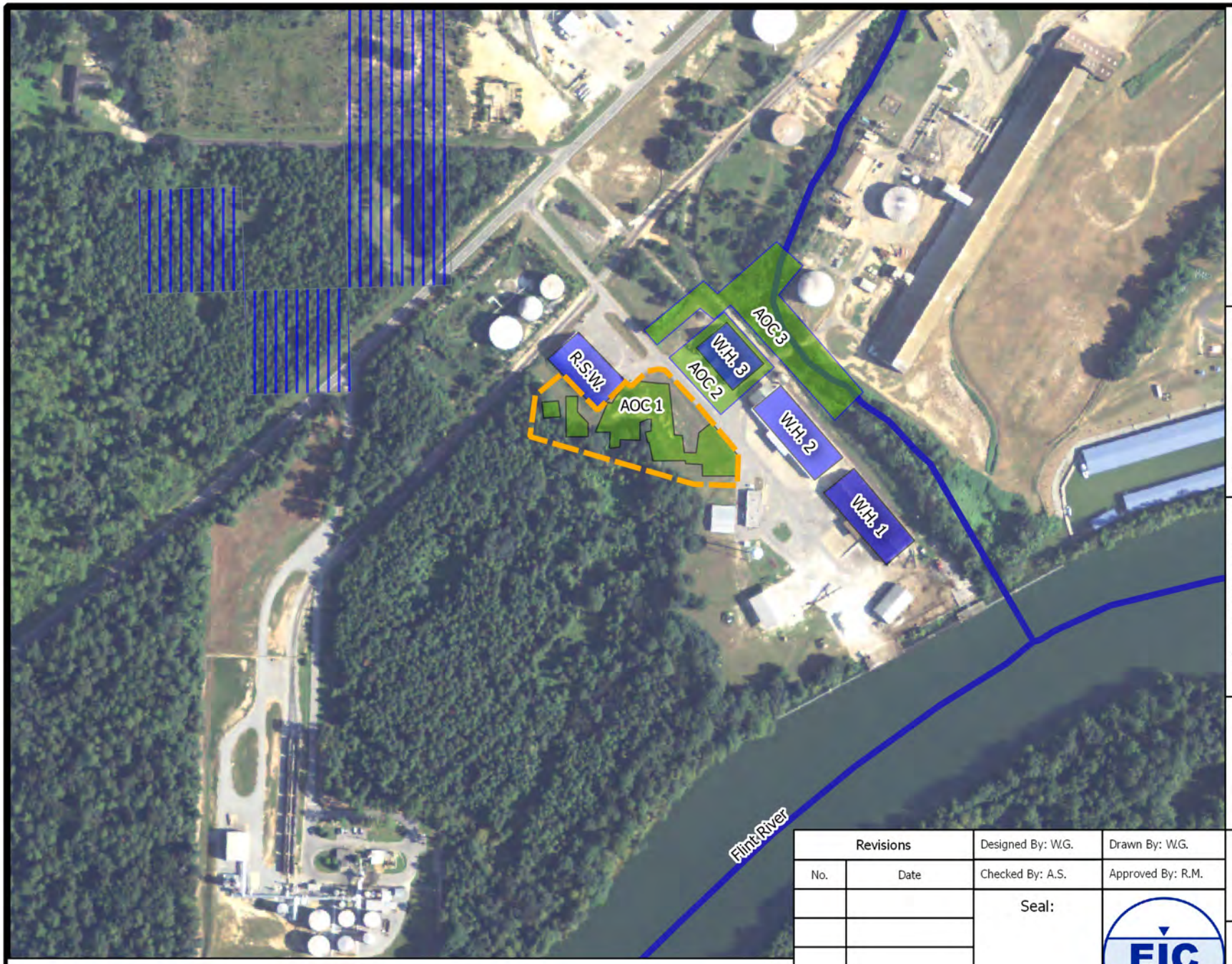

Legend

- 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

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

COMPLIANCE STATUS REPORT

EXHIBIT G
SIXTH VIRP SEMI-ANNUAL PROGRESS REPORT

(INCLUDED ON CD)

Environmental International Corporation
161 Kimball Bridge Road, Suite 100, Alpharetta, GA 30009
Phone: 770-772-7100, Fax: 770-772-0555
Website:www.eicusa.com

November 2, 2015

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: **Sixth 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 Sixth 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 Sixth 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 Mr. Christopher Novack of GPA at 912-964-3922 or me at the above location.

Sincerely,

ENVIRONMENTAL INTERNATIONAL CORPORATION

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

Cc: Christopher Novack, GPA

CERTIFICATION AND SUPPORTING DOCUMENTS
Sixth VIRP Semi-annual Progress Report
Georgia Ports Authority-Bainbridge Terminal
HSI Site No. 10071
November 2, 2015

"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

11/2/15
Date



Signature and Stamp

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

SIXTH VIRP SEMI-ANNUAL PROGRESS REPORT

November 2, 2015

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

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Figure 4-1: Proposed Horizontal Covenant Limits for AOC-2

LIST OF ATTACHMENTS

A. September 2015 Well Purging and Sampling Field Logs

B. September 2015 Groundwater Analytical Results

C. Monthly Summary of Hours Invoiced

SECTION

1

1. Introduction

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

1.1 PRIMARY OBJECTIVES

The primary objectives of this report is to present a compilation of tasks conducted by EIC during the sixth-month time frame covering the period from May 2015 to October 2015. This report documents the following tasks, which EIC completed to create a better understanding of Site conditions and constituents of concern (COC) trends and to address concerns from the EPD:

- Addressing comments from EPD
- Continued evaluation of COC trends in groundwater
- Groundwater Modeling
- Management of Contaminated Soils

SECTION

2

2. EPD Comment Letter

GPA received a letter from the EPD, dated October 6, 2015 (EPD, 2015), that commented on GPA's Fourth and Fifth VIRP Semi-Annual Progress Reports. The following sections address each EPD comment.

EPD Comment 1

EPD concurs that the North Parcel has been remediated and meets Type 4 risk reduction standards (RRS). EPD is in the process of evaluating Georgia Gulf Sulfur's response from a previous EPD request that soil and groundwater data be provided for the area north of the road on their property to complete delineation to the north.

Response: Noted.

EPD Comment 2

Laboratory analytical results for soil samples collected at MW-22 were not submitted in the previous or current Progress Reports as requested in Comment # 8 of EPD's November 2, 2012 comment letter; please submit these results.

Response: The subject report with these analytical results was included in the Second VIRP Semi-annual Progress Report submitted to EPD dated October 30, 2013.

EPD Comment 3

Figure 4-1 in the 5th VIRP Progress Report - The southwest portion of warehouse 3 in AOC 2 at location NW-SB-06 has not been horizontally delineated for alpha, beta and delta-BHC. However, as discussed in the August 25, 2015 meeting, further horizontal delineation may not be required if the Uniform Environmental Covenant (UEC) extends and defines the area subject to engineering controls (ECs) and institutional controls (ICs) as all concrete covered areas surrounding the exterior of the warehouses up to the fence installed around AOC 1. This area would need to be defined in a surveyed legal description, defined in the UEC and subject to annual Maintenance and Monitoring inspections and reporting.

Response: GPA is currently in the process of preparing a Uniform Environmental Covenant (UEC) that extends and defines the area subject to engineering controls (ECs)

and institutional controls (ICs). This area will comprise Warehouses number 2 and 3 and all concrete and asphalt covered surfaces surrounding the exterior of these warehouses and leading up to the fence installed around AOC 1. This area will be defined in a surveyed legal description, defined in the UEC and subject to annual Maintenance and Monitoring inspections and reporting. Additional discussions in this regard, are included in Section 4.

EPD Comment 4

In both reports, EPD has noted that MW-13 and newly installed well MW-23 have exceedances above Type 4 RRS for beta-BHC and concurs that delineation is not completed in this area near the Flint River. To demonstrate that no negative surface water impacts or exceedances of the current Georgia In Stream Water Quality Standards (ISWQSs), as provided in Section 391 -3-6-.03(5) of the Georgia Water Quality Control Act, are occurring in the Flint River, site-specific mixing zone calculations should be developed that show the maximum concentrations in the plume predicted to reach the Flint River. The source concentration that might be used in the mixing zone calculations could be the same maximum concentration for beta BHC (5,000 μg/L) that has been used in the Analytical Contaminant Transport Analysis System (ACTS) modeling, or a more representative value.

Response: EIC is in the process of conducting mixing zone calculations as required by the EPD. However, the maximum concentrations for beta BHC at 5,000 μg/L that was used in the ACTS model would not be representative of the concentrations along the river shoreline of the Flint River. A review of the historic plume maps clearly substantiates much lower concentrations near the river. EIC will therefore utilize the maximum leading edge concentrations from the data collected from MW-23 to calculate the mixing zone values.

EPD Comment 5

EPD does not agree with the plumes drawn in Figures 3-6 (March 2014), Figure 3-7 (September 2014) and Figure 6-4 (May 2015) for the beta-BHC plume. These data do not represent two distinct plumes and the isoconcentration contours should be drawn as one plume.

Response: In response to EPD's comments, EIC completed a further evaluation of the plume contours. As part of the evaluation, EIC prepared Figure 2-1, which superimposes the beta-BHC COC concentration contours over the groundwater potentiometric surface map for the September 2015 sampling event. Based on this evaluation, it is apparent that a separate beta-BHC plume exists in the area of MW-13. GPA will further evaluate the historical data and hydrogeological data to determine the plume configuration.

EPD Comment 6

Based on Comment # 1 in EPD's November 2, 2012 letter and subsequent to discussions during the August 25, 2015 meeting, consideration should be given to including Agrium parcels with pesticide impacts in groundwater as qualifying properties under the Act and a streamlined groundwater UEC be developed for these parcels as part of the final site remedy.

Response: Considering that a substantial source of BHC has originated from a source hydraulically upgradient of the GPA property – as consistently defined in numerous sampling events – GPA does not believe that GPA was contributory to the pesticide impacts on Agrium parcels. As such, as explained during our meeting on August 25, 2015, the GPA does not plan to include Agrium parcels under its groundwater UEC currently in preparation

SECTION

3

3. Groundwater Monitoring

During the third quarter of 2015, EIC conducted a semi-annual groundwater monitoring event. Under the approved VIRP (EIC, 2012), all available monitoring wells are being utilized for the monitored natural attenuation (MNA) remedial approach. In addition, EIC conducted groundwater modeling to evaluate the fate and transport of BHC constituents. The following subsections describe the monitoring and the modeling programs.

3.1 GROUNDWATER MONITORING FIELD PROGRAM

In September 2015, EIC conducted groundwater monitoring at all 25 available monitoring wells. Two of the monitoring wells (MW-14 and MW-17) are historically defined as "deep wells", as the top of the well screen of each well lies at a depth at or greater than 50 feet below ground surface (bgs). The groundwater samples collected from site monitoring wells were analyzed for pesticide COCs. The analyses included the primary COC benzenehexachloride (BHC) composed of isomers, α-BHC, β-BHC, δ-BHC, and γ-BHC (Lindane). A site layout map including monitoring well locations is illustrated in Figure 3-1. In preparing this map, EIC plotted the monitoring well locations based on the latest monitoring well survey conducted in March of 2015 (EIC, 2015).

3.1.1 Sampling Protocol

The groundwater sampling program was conducted in accordance with the current U.S. EPA 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).

3.1.2 Site Access

Prior to EIC's site visit, EIC coordinated with the GPA regarding on-site field activities. EIC also contacted surrounding property owners for permission to access wells located near or on the surrounding properties. EIC contacted Agrium U.S., Inc. (Agrium) for permission to access and conduct off-site well monitoring on the adjacent property to the northeast of the GPA site where wells MW-15, MW-16, MW-18, MW-19, MW-20, and MW-21 are located. EIC 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. Upon arrival at the site, EIC acquired access permission from Ergon, Inc., whose property, to the west of the site, must be utilized to access wells MW-2 and MW-11.

3.1.3 Field Procedures

3.1.3.1 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 survey to determine the current groundwater elevations. The gauging data from the September 2015 monitoring event is summarized in Table 3-1.

3.1.3.2 Groundwater Sampling

Prior to initiating well monitoring field activities in September, EIC placed a non-hazardous label on an empty 55-gallon drum that was previously staged on the north side of the T-Shed by GPA. This drum was labeled with the shipper noted as "Georgia Ports Authority", contents noted as "IDW Well Purge Water", and accumulation date noted as "09/14/2015" and was used to containerize investigative derived waste (IDW) purge water throughout the event.

EIC utilized a peristaltic pump for purging and for sampling groundwater. Disposable 1/4-inch inner diameter (ID) Teflon-lined tubing and 3/16-inch ID silicon tubing at the pump head 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 instrument 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-measured height of the well TOC relative to the ground surface, the established field-measured depth-to-bottom, and the documented well total depth and screened interval from well construction logs.

Following the SOP SESDPROC-301-R3 (EPA, 2013), EIC set the tubing intake at approximately the center of the wetted screen interval. The initial pump speed was set based on well recharge and time for groundwater quality standards to reach stabilization, based on previous sampling events, to limit drawdown and purge time at each well. In the event that the recharge rate was anomalous compared to previous sampling events, the pump speed was adjusted accordingly and noted on the field purging data forms.

Purging continued at each well until stabilization occurred with applicable water quality parameters as defined in the SOP SESDPROC-301-R3 or until three to five well volumes were purged from the each well. 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 sample bottles with water discharged directly from the pump.

All sample bottles were properly sealed and labeled in the field. Each sample was then stored with double-bagged ice in insulated cooler containers provided by the laboratory. Completed chain-of-custody forms accompanied all samples.

EIC relinquished all samples to Test America laboratory immediately after EIC personnel returned from the site. Laboratory analysis included organochlorine pesticides contaminants using EPA Method 8081B/3660B (with sulfur cleanup). The field forms associated with each groundwater sample are included as Attachment A. The groundwater quality field parameters after stabilization and prior to sample collection are summarized in Table 3-2. The laboratory report for the September sampling event is included as Attachment B. The results of these analyses are summarized in Table 3-3 along with historical groundwater analysis.

3.2 QUALITY ASSURANCE AND QUALITY CONTROL

During the groundwater sampling event in September 2015, EIC collected additional samples for quality assurance (QA) and for the validation of analytical results. For organochlorine pesticides laboratory matrix spike analysis, one additional sample each from wells MW-19 and MW-22 was collected. A duplicate sample from well MW-10, and an equipment rinsate (blank) sample were also collected. The equipment blank sample was collected by pumping de-ionized water through a 10-foot section of Teflon-lined tubing and approximately 6-inches of silicone tubing.

Each QA sample collected at the site was stored with ice in coolers and delivered to the laboratory along with the groundwater samples. These samples were analyzed via EPA method 8081B/3660B. All sample bottles were properly sealed and labeled in the field.

To prevent cross-contamination, new disposable Teflon-lined tubing and disposable silicone tubing were used to collect all samples. EIC's oil/water interface probe and tubing cutter tool were field decontaminated prior to use and between sample locations by washing with pressurized 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, also with pressurized phosphate-free detergent.

3.2.1 QA Evaluation

The analytical results of all of the parameters in the equipment blank were below the method detection limit (MDL). In the duplicate MW-10 sample, alpha-, beta-, delta-, and gamma-BHC constituents were all above the MDL, in concurrence with the primary MW-10 sample, and both the primary as well as duplicate samples had similar concentrations.

3.3 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 groundwater COC plumes occurring during the September 2015 monitoring event. Data from the sampling event was compared to the data from the baseline sampling event in March 2013 and with each of the subsequent sampling events to determine if monitored natural attenuation is in progress at the site and if it is likely to lead to remedial endpoints. (EIC 2012, 2013a, 2013b, 2014a, 2014b, and 2015)

3.3.1 Groundwater Potentiometric Map

Utilizing gauging data summarized in Table 3-1 from the September 2015 groundwater monitoring event, EIC prepared a groundwater potentiometric surface map, illustrated in Figure 3-2. For comparative purposes, the contour interval utilized for the groundwater potentiometric surface analyses was identical to those prepared from previous sampling events documented in previous semi-annual reports. Referring to Figure 3-2, it is apparent that groundwater continues to flow to the southeast towards the Flint River.

Table 3-4 shows historical and current groundwater potentiometric surface elevations for all wells at the site as well as statistical data for each monitoring event. Referring to Table 3-4, the average calculated groundwater elevation across the site for the September 2015 gauging event was 77.25 ft. This value is slightly below the calculated global average groundwater elevation (77.98 ft.) listed in Table 3-4 and is approximately the same as the previous September 2014 event. This continues to support the general trend of seasonal groundwater fluctuation apparent at the site since the initiation of the VIRP monitoring program. The total range of elevation difference for this event was calculated to be 0.80 ft. whereas the previous September 2014 total range was 1.13 ft. This indicates that the overall gradient occurring during the September 2015 event was lower than the September 2014 event.

3.3.2 Horizontal Extent of COC Plumes

Figures 3-3 through 3-5 illustrate the horizontal extent of the BHC plumes comprised of alpha-BHC, beta-BHC, and delta-BHC isomers during September 2015. For trend analysis, EIC utilized the same isoconcentration contour intervals as those illustrated in the VIRP submittal and in subsequent plume renderings. Additionally, the contours that illustrate delineation criterion and the RRS limits define the horizontal extent of pesticides and the extent of COC plumes that require remediation.

3.3.2.1 Alpha-BHC Plume

From Figure 3-3, both the concentration and horizontal extent of the alpha-BHC plume have remained relatively stable over time compared to the March 2013 baseline. During the September 2015 sampling event, there were two apparent peaks in concentration above RRS. The highest concentration was determined to be in the area of MW-6 (0.92 µg /L) and MW-5A (0.59 µg /L) with the second comparable concentration in the area of MW-22 (0.580 µg/L). The outer limits

of the plume were defined by surrounding relatively low concentrations at wells MW-1, MW-1A, MW-3, MW-7, MW-12, MW-13, MW-15, MW-16, MW-18, and MW-23. As such, it is apparent from Figure 3-3, that the alpha-BHC plume above RRS is horizontally delineated towards the southwest, south towards the Flint River, southeast, and northeast. However, the plume is not horizontally defined to the northwest and upgradient beyond Spring Creek Road.

3.3.2.2 Beta-BHC Plume

Figure 3-4 illustrates the horizontal extent of the beta-BHC plume during the September 2015 monitoring event. From Figure 3-4, both the concentration and horizontal extent of the alpha-BHC plume have remained relatively stable over time compared to the March 2013 baseline. The highest concentrations of beta-BHC plume was detected near MW-22 (32 µg/L), which is located hydraulically up-gradient of the GPA property and to the north of Spring Creek Road.

As discussed in previous semi-annual reports, concentrations of beta-BHC continue to fluctuate in a seasonal pattern in the area of MW-5A and MW-5D. Typically, concentrations increase during lower water table months such as in September and decrease during higher water table months such as in March. During the September 2015 sampling event, concentrations at wells MW-5A and MW-5D followed the same historical trend with increases in detected concentrations from the March 2015 event that are comparable to the concentrations detected during the September 2014 event.

Near the Flint River at MW-23, the Beta-BHC concentrations were again above RRS. The concentrations near this area, however, have remained relatively stable over time with slight decreases in concentration compared to the September 2014 sampling event, which was the first event in which MW-23 was sampled.

In September 2015, a smaller secondary plume was observed in the vicinity of MW-13 with a concentration of 3.8 µg/L. Since the baseline sampling event in March 2013, EIC has considered this to be a secondary plume separate from the larger primary plume at the site, as the location of this plume relative to known source areas and the groundwater flow direction at the site do not indicate that the plume is associated with the primary plume. Groundwater sampled from the newly installed well MW-24 during the March 2015 and September 2015 sampling events suggests that the secondary plume surrounding MW-13 does not reach MW-24.

Referring to Figure 3-4, it is apparent that the horizontal extent of the beta-BHC plume above RRS is defined to the northeast and southwest, however, the horizontal extent remains undefined to the northwest and upgradient beyond Spring Creek Road and to the south of MW-23 towards the Flint River.

3.3.2.3 Delta-BHC Plume

Figure 3-5 illustrates the horizontal extent of the delta-BHC plume during the September 2015 monitoring event. Compared to the baseline sampling event, the delta-BHC plume has remained relatively stable over time. In September 2015, the highest concentration detected of the delta-

BHC plume occurred near MW-22 (4.5 µg/L). Figure 3-5 illustrates that the horizontal delineation of the delta-BHC plume relative to RRS is complete, except to the north beyond Spring Creek Road.

3.3.3 Vertical Extent of COC Plumes

There are two deep wells at the site, designated as wells MW-14 and MW-17. 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 3-3, following historical trends, the concentrations of alpha-BHC, beta-BHC, and delta-BHC at wells MW-14 and MW-17, have remained below RRS through the September 2015 sampling event. As discussed in the Fourth Semi-annual report (EIC, 2014), EPD concurs with EIC that the vertical limit of the BHC plume has been defined.

3.3.4 BHC Plume Stability

Based on the findings in Sections 3.3.1 through 3.3.3, it is apparent that the BHC plume has remained stable in vertical and horizontal extent over time. EIC will continue to evaluate data from subsequent groundwater monitoring events to further define plume trends and to determine the potential impact from groundwater fluctuations.

3.4 GROUNDWATER MODELING

GPA has completed vadose zone and groundwater transport modeling tasks utilizing the Analytical Contaminant Transport Analysis System (ACTS). The results of this modeling program were presented during a progress report meeting held at EPD on August 25, 2015. A follow-up meeting is currently pending with the EPD to further review the modeling process and obtain concurrence with EIC's findings.

In the August 25, 2015 meeting, EPD also required GPA to conduct a mixing zone analysis to determine whether potential groundwater seepage would impair the water quality in the Flint River in excess of the instream water quality criteria. EIC has completed this task utilizing the maximum leading edge concentrations and aquifer parameters from seven sampling events since the initiation of the VIRP. Based on this analysis, it was apparent that the resulting river concentrations of potential mixing of contaminated groundwater would be substantially lower than the instream water quality standards. EIC will present these findings during the EPD meeting being scheduled.

SECTION

4

4. Management of Contaminated Soils

The EPD approved management of contaminated soils in the South Parcel using site covenants and engineering controls - thus eliminating the need for further excavation, avoiding exposure of site workers, visitors, on-site employees, and of the general public to BHC contamination. Based on previous sampling events, soil contamination was limited to three distinct areas of concern known as AOC-1, AOC-2, and AOC-3. The following subsections define the status of each AOC and the follow-up tasks defined in the VIRP.

4.1 AREA OF CONCERN 1 (AOC-1)

The GPA defined the horizontal extent of soil contamination within AOC 1. As discussed in the third VIRP Semi-annual progress report dated April 30, 2014, GPA installed security fencing with a 20-foot buffer zone around the aerial extent of AOC 1 as an engineering control.

4.2 AREA OF CONCERN 2 (AOC-2)

Completed additional soil sampling to delineate the horizontal extent of soil contamination within AOC 2. The horizontal extent was delineated in all directions - except to the south where a small area lies beneath paved areas and buildings. Since contaminated soil in AOC-2 lies beneath a concrete slab and asphalt pavement, potential exposure to visitors is already eliminated. Direct exposure to site workers and employees will be controlled with site covenants, as discussed in Section 4.5 below.

4.3 AREA OF CONCERN 3 (AOC-3)

As stated in the Third VIRP Semi-annual Report, dated April 2014 (EIC, 2014a), GPA conducted additional soil sampling activities in AOC-3 area and determined that the soils were delineated below the risk reduction standards. In a follow-up letter, EPD concurred that no additional remedial actions were required in this area and that AOC-3 was effectively no longer a concern.

4.4 SITE COVENANTS

As discussed in Section 2, GPA is currently in the process of preparing a Uniform Environmental Covenant (UEC) pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-

16-1, et seq. as institutional controls. The UEC will clearly outline the area subject to engineering controls (ECs) and institutional controls (ICs). The AOC-1 area includes the entire parcel within a 20-foot buffer of the fenced in area. The AOC-2 area includes the area beneath Warehouse numbers 2 and 3 and the surrounding concrete and asphalt covered surfaces leading up to the fence installed around AOC-1. The limits of the concrete/asphalt covered surfaces included in AOC-2 was defined from the original boundaries drawn in the VIRP document and soil sampling data derived from historical reports (Law 1999, 2001, and 2002), prepared under previous site investigations identified in Figure 4-1 entitled: Proposed Horizontal Covenant Limits for AOC-2. All restricted areas will be defined in a surveyed legal description, defined in the UEC and subject to annual Maintenance and Monitoring inspections and reporting.

4.5 MAINTENANCE AND MONITORING PLAN

GPA included an Operations and Maintenance (O&M) plan for the fence line installed around AOC-1 in the Third VIRP Semi-annual Report of April 2014 (EIC, 2014a) and included a description of a Health and Safety Briefing for GPA employees regarding AOC-1 in the Fourth Semi-annual report of October 2014 (EIC, 2014a). GPA is currently preparing a Maintenance and Monitoring Plan for both AOCs 1 and 2. In this plan, the AOCs will be defined according to a UEC and the plan will incorporate the fence line O&M plan for AOC-1, as well as health and safety considerations for GPA employees, contractors, and visitors at both AOCs 1 and 2. The plan will also include a Soil Management Plan for both AOCs 1 and 2. The plan will include a description of a UEC monument to be installed by GPA (see Section 4.6 following). This plan is currently being prepared and will be included in a subsequent semi-annual report.

4.6 MONUMENT

Consistent with the UEC requirements, GPA will install a permanent monument in a conspicuous location notifying GPA employees, contractors, and visitors about the site covenants and restrictions pertaining to BHC soil contamination. The area covenants and restrictions will be incorporated into all land disturbance contracts issued by GPA for future site redevelopment actions. This mechanism will be utilized to eliminate exposure via routine surficial contact, as well as exposure to construction workers or underground utility workers conducting soil excavation activities.

SECTION

5

5. Summary

During the six-month period from May 2015 through October 2015, EIC has successfully completed various tasks to meet the primary objectives set forth in the VIRP. The following is a summary of various tasks conducted during this six-month period.

EIC has responded to all of the EPD's comments presented in a letter dated October 6, 2015. As stated in Section 2, additional tasks are currently being performed to address EPD's comments.

In September 2015, EIC completed the second 2015 semi-annual sampling program. The results of the sampling program indicate that the site conditions are consistent with previous site observations concerning the measurements of COC concentrations and groundwater flow characteristics. As of the September 2015 sampling event, the alpha-BHC and delta-BHC groundwater plumes above RRS remain delineated within the site boundaries except to the north of the site boundary beyond Spring Creek Road. The beta-BHC plume above RRS is delineated towards the east and west of the site but remains undefined to the south towards the Flint River in the vicinity of MW-23 and to the north beyond Spring Creek Road. Based on EPD's October 6, 2015 comments, GPA will switch to an annual groundwater sampling program.

Based on several groundwater sampling events, it is apparent that the BHC groundwater plume is relatively stable. EIC conducted vadose zone and groundwater transport modeling to further evaluate the long-term migration potential. A meeting is currently being scheduled with EPD to obtain concurrence with the modeling approach and results. In addition, EPD required GPA to conduct a mixing zone analysis to determine whether the BHC contaminated groundwater plume presents a risk to the instream water quality in the Flint River. The results of this analysis will be presented in the EPD modeling meeting to obtain concurrence.

Consistent with the steps outlined in the VIRP, GPA has completed the horizontal delineation of the soil contamination in all three areas of concern. GPA has also installed a fence around AOC-1, prepared a Fence line Operation and Maintenance Plan, conducted a health and safety briefing for GPA employees regarding AOC-1, and is in the process of preparing a Management and Monitoring Plan for both AOCs 1 and 2. Currently, GPA is in the process of preparing site covenants consistent with UEC format for AOCs 1 and 2. The GPA is also in the process of procuring a monument to be installed in a conspicuous location within AOCs 1 and 2. Upon

completion of these tasks, GPA will have accomplished all of the milestones outlined in the VIRP for the management of contaminated soils.

SECTION

6

6. Summary of Hours

A monthly summary of hours invoiced for the aforementioned tasks during the period from April 2015 through October 2015 is included as Attachment C.

SECTION

7

7. References

Environmental International Corporation (EIC), 2012. *VIRP Application, BHC Remediation*, Alpharetta, Georgia, July 31, 2012.

EIC, 2013a. *First VIRP Semi-annual Progress Report, Georgia Ports Authority – Bainbridge Terminal, HIS Site No. 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19, Bainbridge, Decatur County, Georgia*. Alpharetta, Georgia, May 9, 2013.

EIC, 2013b. *Second VIRP Semi-annual Progress Report, Georgia Ports Authority – Bainbridge Terminal, HIS Site No. 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19, Bainbridge, Decatur County, Georgia*. Alpharetta, Georgia, October 30, 2013.

EIC, 2014a. *Third VIRP Semi-annual Progress Report, Georgia Ports Authority – Bainbridge Terminal, HIS Site No. 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19, Bainbridge, Decatur County, Georgia*. Alpharetta, Georgia, April 29, 2014.

EIC, 2014b. *Fourth VIRP Semi-annual Progress Report, Georgia Ports Authority – Bainbridge Terminal, HIS Site No. 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19, Bainbridge, Decatur County, Georgia*. Alpharetta, Georgia, October 30, 2014.

EIC, 2015. *Fifth VIRP Semi-annual Progress Report, Georgia Ports Authority – Bainbridge Terminal, HIS Site No. 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19, Bainbridge, Decatur County, Georgia*. Alpharetta, Georgia, May 4, 2015.

U. S. Environmental Protection Agency (EPA), 2013. *Groundwater Sampling, Operating Procedure, Number SESDPROC-301-R3*. Region 4, U.S. Environmental Protection Agency, Science and Ecosystem Support Division, Athens, Georgia. March 6, 2013.

Georgia Environmental Protection Division (EPD), 2015. Letter from GA EPD to GPA, *Fourth and Fifth VIRP Semi-Annual Progress Reports, Georgia Ports Authority–Bainbridge Terminal, HSI Site No. 10071, 1321 Spring Creek Road, Bainbridge, Decatur County*. Atlanta, Georgia, October 6, 2015.

LAW Engineering and Environmental Services, Inc. (LAW), 1999. *Compliance Status Report, Georgia Ports Authority – Bainbridge Terminal, Bainbridge, Decatur County, Georgia, HIS Site No. 10071.* September, 1999.

LAW, 2001. *Revised Compliance Status Report, Georgia Ports Authority – Bainbridge Terminal, Bainbridge, Decatur County, Georgia, HIS Site No. 10071.* November, 2001.

LAW, 2002. *Addendum to Revised Compliance Status Report, Summary of Recent Soil and Groundwater Testing, Georgia Ports Authority – Bainbridge Terminal, Bainbridge, Georgia, HIS Site No. 10071.* Atlanta, Georgia, August 14, 2002.

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

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TABLES

Table 3-1: Well Gauging Data for September 2015 Monitoring Event

Well ID # (Well Diameter, in.)	TOC Elevation*	DTW	DTB**	Groundwater Surface Elevation	Notes
	ft.	ft.	ft.	ft.	
MW-1 (2)	105.22	27.93	32.80	77.29	
MW-1A (2)	105.33	28.04	36.81	77.29	
MW-2 (2)	98.86	21.66	29.20	77.20	
MW-3 (2)	97.12	19.93	27.32	77.19	
MW-4U (2)	103.51	26.26	32.38	77.25	
MW-5A (2)	96.67	19.45	22.82	77.22	
MW-5D (2)	96.12	18.88	24.88	77.24	
MW-6 (2)	102.25	24.95	51.81	77.30	
MW-7 (2)	98.10	20.68	22.25	77.42	
MW-8 (2)	93.54	16.36	21.96	77.18	
MW-9 *** (2)	NL	NA	NA	NA	
MW-10 (2)	99.83	22.32	30.75	77.51	
MW-11 (2)	100.87	23.48	27.50	77.39	
MW-12 (2)	94.06	17.23	22.53	76.83	
MW-13 (2)	93.55	16.84	22.03	76.71	
MW-14 (2)	102.11	24.78	71.50	77.33	
MW-15 (2)	98.13	20.83	21.51	77.30	
MW-16 (2)	97.15	19.65	23.83	77.50	
MW-17 (2)	93.65	16.42	60.45	77.23	
MW-18 (2)	95.56	18.18	32.83	77.38	
MW-19 (2)	96.6	19.30	32.43	77.30	
MW-20 (2)	96.57	19.10	32.88	77.47	
MW-21 (2)	97.55	20.11	31.50	77.44	
MW-22 (2)	98.88	21.38	33.54	77.50	
MW-23 (2)	93.61	16.63	24.00	76.98	
MW-24 (2)	93.07	16.21	22.81	76.86	

Notes:

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

* TOC elevations are based on a survey conducted by Donaldson, Garrett, & Associates, Inc. in April 2015.

** Depth to bottom of all wells except MW-17 were measured utilizing the interface meter after purging in March 2015. MW-17 was simarly gauged on 9/14/15.

*** Well Not Located

TOC = Top of Casing

DTW = Depth to Water below TOC

DTB = Depth to Bottom below TOC

NA = Not Applicable

NM = Not Measured

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

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	0.72	2.20	4.58
	3/25/2014	19.10	4.07	377.00	0.55	0.00	4.99
	9/4/2014	23.21	3.70	382.00	0.63	4.50	4.99
	3/3/2015	18.94	3.06	354.00	0.51	0.00	2.65
	9/15/2015	23.20	3.48	321.00	0.41	0.00	2.64
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
	3/25/2014	17.97	4.01	400.00	0.761	0.00	2.26
	9/4/2014	22.15	3.78	372.00	0.818	35.40	3.61
	3/3/2015	20.02	3.17	334.00	0.704	0.00	1.80
	9/15/2015	21.78	3.48	331.00	0.51	0.00	2.27
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
	3/25/2014	17.33	4.84	295.00	0.065	0.00	4.16
	9/3/2014	18.94	3.86	226.00	0.075	0.00	1.16
	3/2/2015	18.38	4.14	275.00	0.066	0.00	2.58
	9/14/2015	19.41	4.45	268.00	0.076	0.00	0.79
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
	3/25/2014	19.18	5.57	220.00	0.065	0.00	6.43
	9/4/2014	19.98	4.65	231.00	0.072	17.50	4.97
	3/3/2015	16.34	4.47	665.00	0.077	0.00	7.00
	9/15/2015	20.00	4.78	223.00	0.067	0.00	4.04

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

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-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
	3/25/2014	20.85	4.44	308.00	0.262	0.00	3.76
	9/4/2014	20.30	3.68	309.00	0.198	0.00	4.95
	3/3/2015	17.80	3.48	325.00	0.284	0.00	4.80
	9/15/2015	21.52	3.91	280.00	0.169	0.00	3.93
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
	3/26/2014	20.00	4.22	260.00	0.608	0.00	3.24
	9/5/2014	23.84	4.03	308.00	0.829	0.00	1.47
	3/5/2015	22.58	3.37	259.00	1.070	0.00	3.37
	9/17/2015	26.67	3.96	271.00	0.680	0.00	0.91
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
	3/26/2014	18.91	3.53	275.00	1.870	0.00	0.60
	9/3/2014	24.94	3.62	300.00	0.988	0.00	0.71
	3/5/2015	21.45	3.17	286.00	2.040	0.00	1.30
	9/17/2015	26.48	3.84	270.00	0.465	0.00	0.37

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

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-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
	3/26/2014	21.58	5.80	61.00	1.760	15.20	0.71
	9/4/2014	22.84	5.70	65.00	1.870	86.00	0.66
	3/4/2015	22.52	5.67	43.00	1.610	2.70	0.45
	9/16/2015	21.93	5.41	46.00	1.710	0.00	0.47
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
	3/26/2014	18.95	3.91	284.00	0.541	0.00	1.63
	9/3/2014	24.29	3.45	304.00	0.926	0.00	1.47
	3/4/2015	23.72	7.91	288.00	0.524	0.00	1.25
	9/16/2015	25.04	3.99	240.00	0.477	0.00	0.98
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	0.64	0.00	1.31
	3/26/2014	18.72	3.93	274.00	0.734	1.10	3.57
	9/3/2014	27.23	3.41	311.00	0.730	0.00	1.29
	3/5/2015	21.74	3.25	244.00	1.220	0.00	1.31
	9/16/2015	27.08	3.91	248.00	0.642	0.00	1.85

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

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-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
	3/25/2014	NL	NL	NL	NL	NL	NL
	9/3/2014	NL	NL	NL	NL	NL	NL
	9/15/2015	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
	3/26/2014	20.16	3.88	320.00	0.823	0.00	1.71
	9/3/2014	23.99	3.63	288.00	0.911	0.00	1.43
	3/5/2015	20.05	3.11	297.00	1.430	0.00	2.08
	9/17/2015	23.42	3.83	290.00	0.708	0.00	1.14
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
	3/25/2014	18.20	4.19	351.00	0.190	6.70	5.06
	9/3/2014	20.20	3.30	300.00	0.182	0.00	4.85
	3/5/2015	18.46	3.44	320.00	0.181	0.00	4.68
	9/14/2015	21.22	3.92	311.00	0.155	0.00	4.81
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
	3/26/2014	18.64	5.93	213.00	1.070	0.00	1.38
	9/2/2014	23.31	6.87	117.00	0.619	0.00	0.62
	3/4/2015	22.47	5.89	101.00	0.846	0.00	3.27
	9/16/2015	24.46	6.93	65.00	0.894	0.00	0.44

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

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-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
	3/26/2014	17.75	4.95	77.00	0.42	0.00	0.91
	9/2/2014	22.57	5.93	211.00	0.48	0.00	1.69
	3/5/2015	18.20	4.53	68.00	0.93	0.00	1.45
	9/16/2015	20.62	5.15	109.00	0.48	0.00	1.28
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
	3/25/2014	18.53	7.40	-146.00	0.267	5.80	0.66
	9/4/2014	22.27	7.51	-163.00	0.290	1.90	0.51
	3/4/2015	21.41	7.67	-180.00	0.250	0.00	2.65
	9/16/2015	22.01	7.35	-139.00	0.252	0.00	0.60
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
	3/26/2014	16.50	4.30	292.00	4.94	0.00	1.32
	9/3/2014	24.75	4.29	250.00	3.77	0.00	1.75
	3/4/2015	21.30	4.51	237.00	2.60	0.00	0.68
	9/15/2015	23.92	4.09	236.00	3.44	0.00	0.43
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
	3/26/2014	19.59	4.96	236.00	0.030	0.00	4.99
	9/3/2014	28.38	4.75	259.00	0.026	0.00	4.33
	3/3/2015	20.72	4.53	183.00	0.025	0.00	6.34
	9/16/2015	23.92	4.59	199.00	0.025	0.00	4.43

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

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
	3/27/2014	19.70	7.50	2.00	0.413	9.60	0.48
	9/2/2014	25.89	7.17	-118.00	0.401	11.10	0.40
	3/3/2015	20.04	6.74	-58.00	0.498	0.00	0.52
	9/14/2015	21.63	7.20	105.00	0.460	17.90	0.55
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
	3/26/2014	21.36	6.79	124.00	1.880	0.80	1.36
	9/4/2014	25.62	6.27	221.00	1.910	0.80	0.60
	3/4/2015	22.61	6.68	112.00	1.430	7.90	0.68
	9/15/2015	24.44	6.45	134.00	1.480	19.50	0.37
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
	3/25/2014	20.52	4.31	282.00	1.380	95.00	0.85
	9/3/2014	25.69	4.00	313.00	1.320	13.20	0.63
	3/4/2015	21.20	3.95	331.00	1.130	98.10	0.58
	9/15/2015	23.40	3.64	322.00	0.936	5.30	0.60

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

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-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
	3/27/2014	17.58	4.34	308.00	0.253	0.00	6.49
	9/5/2014	23.44	3.84	304.00	0.394	0.00	6.74
	3/5/2015	17.67	3.72	273.00	0.445	0.00	6.53
	9/17/2015	23.38	4.13	273.00	0.282	0.00	4.99
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
	3/27/2014	21.74	5.17	194.00	0.222	14.10	3.55
	9/5/2014	25.15	3.83	305.00	0.889	0.00	4.24
	3/5/2015	19.01	3.54	282.00	1.110	0.00	4.09
	9/17/2015	22.94	4.30	254.00	0.265	0.00	4.75
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
	3/27/2014	18.50	3.86	356.00	0.650	9.90	2.99
	9/5/2014	25.73	3.83	337.00	0.697	0.00	2.90
	3/6/2015	18.55	3.58	295.00	0.742	23.30	2.76
	9/17/2015	24.47	3.79	288.00	0.481	3.50	2.71

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

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-23 (2)	7/8/2014	24.94	3.74	358.00	1.310	0.00	1.34
	9/2/2014	26.47	4.67	154.00	1.040	0.00	0.55
	3/5/2015	23.11	4.47	177.00	1.470	0.00	0.93
	9/17/2015	24.95	5.33	216.00	0.925	0.00	0.53
MW-24 (2)	3/3/2015	20.86	5.72	189.00	0.214	0.00	2.14
	9/14/2015	19.62	6.30	188.00	0.260	0.00	2.56

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 December 2013 to September 2015, 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 3-3: Groundwater Pesticides Data Summary

	Test 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	
Site-Specific RRS Values		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**	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag
MW-1	4/15/2008	0.010	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	0.051	U	0.051	U	0.51	U
	8/5/2009	**0.095**		**0.113**		0.051	U	**0.065**		0.051	U	0.051	U	0.051	U	**0.00462**	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
	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00722	U	0.00742	U	0.00722	U	0.01320	U	0.0105	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
	3/25/2014	0.003	U	0.00232	U	0.00131	U	0.00169	U	0.00551	U	0.00323	U	0.00142	U	0.00099	U	0.001500	U	0.00598	U	0.00144	U	0.00175	U	0.00298	U	0.00115	U	0.03430	U	0.00176	U	0.00341	U	0.00484	U	0.00326	U	0.00141	U	0.0762	U
	9/4/2014	**0.0343**	J	**0.231**		0.002	U	**0.0362**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	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
	3/3/2015	0.0101	U	0.0023	UF	0.002	UF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
	9/15/2015	0.0034	U	0.0090	U	0.0074	U	0.0035	U	0.00700	U	0.0071	U	0.00360	U	0.00340	U	0.003700	U	0.005	U	0.00520	U	0.00410	U	0.00620	U	0.00500	U	0.00690	U	0.0097	U	0.60000	U	0.09400	U	0.09400	U	0.00450	U	0.39	U
MW-1A	9/1/2001	0.100	U	0.1	U	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	0.010	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	0.051	U	0.051	U	0.51	U
	8/5/2009	**0.092**		**0.158**		0.051	U	**0.063**		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
	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00711	U	0.00731	U	0.00711	U	0.01300	U	0.0104	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
	3/25/2014	0.003	U	0.00237	U	0.00134	U	0.00173	U	0.00562	U	0.00329	U	0.00145	U	0.00101	U	0.001530	U	0.0061	U	0.00147	U	0.00179	U	0.00304	U	0.00117	U	0.03500	U	0.0018	U	0.00347	U	0.00494	U	0.00333	U	0.00144	U	0.0777	U
	9/4/2014	**0.0234**	J	**0.161**		**0.0046**	J	**0.0213**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/3/2015	0.0101	U	**0.0214**	JF	0.002	UF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
	9/15/2015	0.0031	U	0.0084	U	0.0069	U	0.0033	U	0.00660	U	0.0066	U	0.00340	U	0.00320	U	0.00350	U	0.0047	U	0.00490	U	0.00390	U	0.00580	U	0.00470	U	0.00650	U	0.009	U	0.00560	U	0.08800	U	0.08800	U	0.00420	U	0.37	U
MW-2	4/16/2008	0.010	U	**0.0099**	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	0.51	U
	7/14/2011	0.050	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00711	U	0.00731	U	0.00711	U	0.01300	U	0.0104	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	0.01040	U	0.0107	U	0.00822	U	0.00711	U	0.00822	U	0.00731	U	0.00508	U
	3/25/2014	0.003	U	0.00231	U	0.00131	U	0.00168	U	0.00548	U	0.00321	U	0.00142	U	0.00099	U	0.001490	U	0.00595	U	0.00143	U	0.00175	U	0.00269	U	0.00115	U	0.03420	U	0.00176	U	0.00339	U	0.00482	U	0.00324	U	0.00141	U	0.0758	U
	9/3/2014	0.0101	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/2/2015	0.0101	U	0.0023	UF	0.002	UF	0.0016	U	0.00290	U	0.0026	U	0.00208	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.02200	U	0.00450	UF	0.423	U
	9/14/2015	0.0034	U	0.0090	U	0.0074	U	0.0036	U	0.00700	U	0.0071	U	0.00370	U	0.00350	U	0.00380	U	0.005	U	0.00520	U	0.00420	U	0.00620	U	0.00500	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00460	U	0.4	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		NS	
	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.009	U	0.00824	U	0.00847	U	0.00824	U	0.01510	U	0.012	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
	3/25/2014	0.003	U	0.00235	U	0.00133	U	0.00171	U	0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.001510	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	U
	9/4/2014	0.0101	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	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
	3/3/2015	0.0101	U	0.0023	UF	0.002	UF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
	9/15/2015	0.0034	U	0.0091	U	0.0075	U	0.0036	U	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.003800	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610		0.09500	U	0.09500	U	0.00460	U	0.4	U
MW-4U	9/1/2001	0.100	U	0.1	U	**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	0.010	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.52	U
	8/5/2009	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.101	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	U
	3/28/2013	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00788	U	0.008	U	0.00778	U	0.01420	U	0.0113	U	0.00922	U	0.00878	U	0.00050	U	0.009	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
	3/25/2014	0.003	U	0.00235	U	0.00133	U	0.00171	U	0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	U
	9/4/2014	0.0101	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	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
	3/3/2015	0.0101	U	0.0023	UF	0.002	UF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
	9/15/2015	0.0034	U	0.0090	U	0.0074	U	0.0036	U	0.00700	U	0.0071	U	0.00370	U	0.00350	U	0.003800	U	0.0051	U	0.00520	U	0.00420	U	0.00620	U	0.00510	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00460	U	0.40	U
MW-5A	4/16/2008	**0.120**		**2.4**		**0.63**		**0.04**	J	0.051	U	**0.023**	J	0.051	U	0.051	U	**2.7**		0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	**0.14**		0.51	U
	8/4/2009	**0.510**	J	**18**		**2.2**		**0.155**	J	1.01	U	1.01	U	1.01	U	1.01	U	1.70	U	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	1.01	U	**0.340**	J	101	U
	7/15/2011	**0.130**		**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	**0.430**	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	**0.100**		**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	0.010	U	**0.389**		0.002	U	0.0016	U	0.00290	U	**0.0286**	J	**0.236**		0.00240	U	**2.75**	D	0.0035	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	0.009	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
	3/26/2014	**0.239**		0.00232	U	**0.668**		**0.24**		0.00551	U	0.0747	U	0.00142	U	0.00099	U	0.0015	U	0.00598	U	0.00144	U	0.00175	U	0.00298	U	0.00115	U	0.03430	U	0.00176	U	0.00341	U	0.00484	U	0.00326	U	0.244	U	0.0762	U
	9/5/2014	**0.322**		**7.47**	D	**1.01**	D	**0.298**		0.00290	U	**0.0787**		0.00280	U	0.00240	U	**1.99**	D	0.0035	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	**0.235**		0.423	U
	3/3/2015	**0.062**		**1.63**	DF	**0.255**	F	**0.0545**		0.00290	U	**0.0219**		0.00280	U	0.00240	U	**1.80**		0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	**0.070**	J	0.423	U
	9/17/2015	**0.59**		**8.6**		**1.2**		**0.20**	P	0.00690	U	**0.045**	J P	0.00360	U	0.00340	U	**1.60**		0.005	U	0.00520	U	0.00410	U	0.00610	U	0.00500	U	0.00680	U	0.0095	U	0.00590	U	0.09200	U	**0.200**		0.39	U
MW-5D	7/1/2001	**1.000**		**8.7**		**3.7**		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/15/2008	**0.190**		**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	**1.180**	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	4.04	U	**2.02**		2.02	U	4.04	U	202	U
	7/15/2011	**0.500**	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	**0.660**		**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	**0.720**		**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	0.0098	U	0.0049	U	0.0049	U	0.0098	U	0.98	U
	3/26/2013	0.002	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	0.010	U	**0.12**		0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.012	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
	3/26/2014	0.003	U	0.00232	U	0.00131	U	0.00169	U	0.00551	U	0.00323	U	0.00141	U	0.00099	U	0.002	U	0.00598	U	0.00144	U	0.00175	U	0.00298	U	0.00115	U	0.03430	U	0.00176	U	0.00341	U	0.00484	U	0.00326	U	0.00141	U	0.0762	U
	9/3/2014	**0.352**		**18.2**	D	**1.93**	J	**0.383**		0.00287	U	0.00257	U	0.00277	U	0.00238	U	**0.360**		0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.00285	U	0.00851	U	0.00178	U	0.00218	U	**0.0541**	J	0.419	U
	3/5/2015	**0.145**		**4.47**	DF	**1.77**	J	**0.143**		0.00290	U	0.00260	U	0.00280	U	0.00240	U	**0.080**	J	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	**0.0204**	JF	0.423	U
	9/17/2015	**0.34**		**13**		**3.4**		**0.16**	P	0.00700	U	0.00710	U	0.00370	U	0.00350	U	**0.180**		0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00690	U	0.0097	U	0.00610	U	0.09400	U	0.09400	U	**0.0120**	J P	0.40	U

Table 3-3: Groundwater Pesticides Data Summary

	Test 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	
Site-Specific RRS Values		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**	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag
MW-6	9/1/2001	1.840		1.39		2.22		0.31		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/1/2002	1.200		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	1.700		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	2.360		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	2.500		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	1.400		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	1.400	*	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	0.0098	U	0.0049	U	0.0049	U	0.0098	U	0.98	U
	3/26/2013	1.290		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	1.230		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	1.510	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	0.0035	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	1.680		1.67		2.71	DX	0.035		0.0142	U	0.0113	U	0.00922	U	0.00878	U	0.000522	J	0.009	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	0.008	U	0.00556	U
	3/26/2014	0.797		1.16		1.98		0.00173	U	0.00562	U	0.00329	U	0.00145	U	0.00101	U	0.00153	U	0.0061	U	0.00147	U	0.00179	U	0.00304	U	0.00117	U	0.03500	U	0.0018	U	0.00347	U	0.00494	U	0.00333	U	0.00144	U	0.0777	U
	9/8/2014	0.907	D	1.15	D	1.81	D	0.00158	U	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/4/2015	0.348		0.594	F	1.17	DF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
	9/16/2015	0.92		1.3		2.1	P	0.014	J P	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0097	U	0.00610	U	0.09400	U	0.09400	U	0.00460	U	0.40	U
MW-7	9/1/2001	20.510		3.23		1.35		2.66		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	6/1/2002	4.300		1.2		1		1.3		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/14/2008	0.580		0.4		0.021	J	0.032	J	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.52	U
	8/5/2009	0.137		0.564		0.051	U	0.129		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	0.051	U	**0.00823**	J	0.101	U	5.05	U
	3/27/2013	0.030	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	0.002	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	0.061		0.365		0.002	U	0.0332	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.023		0.31		0.0126	J	0.0487		0.01420	U	0.0113	U	0.00922	U	0.00878	U	**0.00184**	J	0.009	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	0.008	U	0.00556	U
	3/26/2014	0.018		0.264		0.00133	U	0.034		0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/3/2014	0.0364	J	0.409		0.00198	U	0.0660		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/4/2015	0.0101	U	0.427	F	0.0132	JF	0.0334	J	0.00290	U	0.0026	U	0.00280	U	0.00430	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
	9/16/2015	0.0046	J P	0.23		0.0074	U	0.012	J	0.00700	U	0.0071	U	**0.00380**	J P	0.00350	U	0.00370	U	0.005	U	0.00520	U	0.00410	U	0.00620	U	0.00500	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00450	U	0.39	U
MW-8	9/2/2001	0.100	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	0.310		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	0.05	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	0.210		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	0.0097	U	0.0049	U	0.0049	U	0.0097	U	0.97	U
	3/26/2013	0.032	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	0.0026	U	0.00280	U	0.00240	U	**0.00961**	J	0.0035	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	0.0113	U	0.00922	U	0.00878	U	**0.0101**	J	0.009	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	0.008	U	0.00556	U
	3/26/2014	0.061		0.829		0.0899		0.0392		0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/8/2014	0.179		1.31	D	0.272		0.145		0.00287	U	0.00257	U	0.00277	U	0.00238	U	**0.0148**	J	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/5/2015	0.013	J	0.542	F	0.0231	J F	0.0108	J	0.00180	U	0.0026	U	0.00280	U	0.00240	U	**0.0071**	J	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/16/2015	0.18		1.2		0.28		0.14		0.00710	U	0.0072	U	0.00370	U	0.00350	U	**0.0087**	J	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
MW-9	9/1/2001	0.770		5.01		0.82		0.42		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NL	
	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	
	3/25/2014	NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL	
	9/4/2014	NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL	
	3/5/2015	NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL	
	9/15/2015	NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL	
MW-10	4/1/2002	1.900		9		3.7		0.86		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	6/3/2002	1.500	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	2.000		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	1.450		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	1.200		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	1.360		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	0.710		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	0.0095	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		8.6	D	0.511		0.307		0.346		0.0026	U	0.00280	U	0.00240	U	**0.00961**	J	0.0035	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		0.064	U	0.051	U	0.04150	U	0.03950	U	**0.00725**	J	0.0405	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	0.025	U
	3/26/2014	0.315		0.00235	U	0.289		0.147		0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/3/2014	0.443		7.62	D	0.489		0.189		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/5/2015	0.243		4.75	DF	0.294	F	0.111		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/17/2015	0.48		7.1		0.48	P	0.22		0.00700	U	0.0071	U	0.37000	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00620	U	0.00510	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00460	U	0.40	U
MW-11	4/1/2002	0.100	U	0.1	U	0.1	U	0.1	U	NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/16/2008	0.010	U	0.024	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	0.51	U
	7/14/2011	0.050	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00714	U	0.00735	U	0.00714	U	0.01310	U	0.0104	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	0.0051	U
	3/25/2014	0.003	U	**0.027**		0.00133	U	0.00171	U	0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.001510	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/3/2014	0.0101	U	**0.0181**	J	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/2/2015	0.0101	UK	**0.0108**	JKF	0.002	UKF	0.0016	UK	0.00290	UK	0.0026	UK	0.00280	UK	0.00240	UK	0.00430	UK	0.0035	UK	0.00460	UK	0.00450	UK	0.00370	UK	0.00700	UKF	0.00490	UK	0.0288	UK	0.00860	UKF	0.00180	UK	0.00220	UK	0.00450	UK	0.423	UK
	9/14/2015	0.0034	U	**0.015**	J	0.0075	U	0.0036	U	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U

Table 3-3: Groundwater Pesticides Data Summary

	Test 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	
Site-Specific RRS Values		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**	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag
MW-12	4/1/2002	**0.390**		**1.3**		0.43		**0.18**		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	6/1/2002	**0.400**		**1.4**		**0.3**		**0.1**		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/15/2008	**0.034**		**0.44**		**0.022**	J	**0.024**	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	0.51	U
	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	**0.750**		**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	**0.710**		**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	0.0049	U	0.0097	U	0.0097	U	0.0049	U	0.0049	U	0.0097	U	0.97	U
	3/26/2013	0.002	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	**0.015**	J	**0.847**		0.002	U	**0.00783**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.0370	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	0.077	U	**0.601**		0.075	U	0.0729	U	0.13300	U	0.106	U	0.08650	U	0.08230	U	0.00469	U	0.0844	U	0.11800	U	0.09380	U	0.08650	U	0.10100	U	0.11700	U	0.109	U	0.08440	U	0.07290	U	0.08440	U	0.07500	U	0.0521	U
	3/26/2014	**0.010**		**0.539**		**0.00532**		**0.0138**		0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/2/2014	**0.0227**	J	**0.660**		**0.0093**	J	**0.0107**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/4/2015	0.0101	U	**0.086**	F	0.002	UF	**0.0033**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/16/2015	**0.011**	J	**0.57**		0.0075	U	**0.0062**	J	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
MW-13	4/1/2002	**0.260**		**8**		**0.6**		**0.16**		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	6/1/2002	**0.400**		**11**		**1.4**		**0.5**		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/14/2008	**0.059**		**9**		**0.12**		**0.045**	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	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.5	U
	8/4/2009	**0.120**	J	**11**		**0.63**	J	1.01	U	1.01	U	1.01	U	1.01	U	1.01	U	2.02	U	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	1.01000	U	2.02	U	101	U
	3/27/2013	0.002	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	**0.052**		**6.36**	D	**0.0849**		**0.0307**	J	**0.454**		0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	
	3/26/2014	**0.022**		**4**		**0.032**		**0.0571**		0.0107	U	0.00627	U	0.00276	U	0.00193	U	0.00290	U	0.0116	U	0.00280	U	0.00193	U	0.00579	U	0.00224	U	0.06670	U	0.00343	U	0.00661	U	0.00941	U	0.00633	U	0.00274	U	0.148	U
	9/2/2014	**0.0319**	J	**3.87**	D	**0.0782**		**0.0517**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/5/2015	**0.0206**	J	**3.29**	DF	**0.101**	F	**0.0507**		0.00290	U	0.0026	U	0.00280	U	0.00430	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/16/2015	**0.061**		**3.8**		0.0075	U	**0.049**	J P	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
MW-14	4/10/2003	**0.200**		**0.1**		**0.1**	U	0.1	U	0.1	U	0.1	U	0.1	U	0.5	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	NM		NM		NM		2.0	U
	4/14/2008	0.010	U	**0.18**		**0.004**	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	0.51	U
	8/4/2009	0.051	U	**0.028**	J	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	0.510	U	0.102	U	0.051	U	0.051	U	0.102	U	5.10	U
	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	0.051	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	5.10	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.076	U	0.0718	U	0.0738	U	0.0718	U	0.13100	U	0.105	U	0.08510	U	0.08100	U	0.00462	U	0.0831	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
	3/25/2014	0.003	U	**0.243**		0.00134	U	**0.00702**		0.00562	U	0.00329	U	0.00145	U	0.00101	U	0.00153	U	0.0061	U	0.00147	U	0.00179	U	0.00304	U	0.00117	U	0.03500	U	0.0018	U	0.00347	U	0.00494	U	0.00333	U	0.00144	U	0.0777	U
	9/4/2014	0.0101	U	0.311		0.002	U	**0.0025**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/4/2015	0.0101	U	**0.179**	F	**0.0026**	J F	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/16/2015	**0.0070**	J	**0.39**		0.0074	U	0.0036	U	0.00700	U	0.0071	U	0.00370	U	0.00350	U	0.00370	U	0.0050	U	0.00520	U	0.00410	U	0.00620	U	0.00500	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00450	U	0.39	U
MW-15	4/10/2003	**6.800**		**1.1**		**0.7**		**1.3**		0.1	U	0.1	U	0.1	U	0.5	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	NM		NM		NM		2.0	U
	4/16/2008	**0.058**		**0.37**		**0.007**	J	**0.042**	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	0.51	U
	8/5/2009	**0.103**		**0.565**		**0.01**	J	**0.067**		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	0.051	U	0.051	U	0.101	U	5.05	U
	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	**0.080**		**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	DRY
	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	**0.057**		**0.221**		0.002	U	**0.0245**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	DRY
	12/3/2013	DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY		DRY	
	3/26/2014	**0.041**		**0.317**		0.00135	U	**0.0458**		0.00568	U	0.00333	U	0.00147	U	0.00102	U	0.00154	U	0.00616	U	0.00149	U	0.00181	U	0.00307	U	0.00119	U	0.03540	U	0.00182	U	0.00351	U	0.00499	U	0.00336	U	0.00146	U	0.0785	U
	9/5/2014	**0.139**		**0.587**		**0.0174**	J	**0.0865**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/4/2015	**0.0496**	J	**0.262**	F	0.00778	J F	**0.0339**	J	0.00293	U	0.0505	U	0.00283	U	0.00242	U	0.00434	U	0.00354	U	0.00465	U	0.00455	U	0.00374	U	0.00707	UF	0.00495	U	0.0291	U	0.00869	U	0.00182	U	0.00222	U	0.00455	U	0.428	U
	9/15/2015	**0.078**		**0.43**		**0.0078**	J P	**0.040**	J	0.00700	U	0.0071	U	0.00360	U	0.00340	U	0.00370	U	0.005	U	0.00520	U	0.00410	U	0.00620	U	0.00500	U	0.00690	U	0.0096	U	0.00600	U	0.09300	U	0.09300	U	0.00450	U	0.39	U
MW-16	4/10/2003	**11.400**		**0.9**		**0.9**		**2.3**		0.1	U	0.1	U	0.1	U	0.5	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	NM		NM		NM		2.0	U
	4/16/2008	0.010	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	0.051	U	0.051	U	0.51	U
	8/5/2009	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.101	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
	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.076	U	0.0722	U	0.0742	U	0.0722	U	0.13200	U	0.105	U	0.08560	U	0.08140	U	0.00464	U	0.0835	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
	3/26/2014	0.031	U	0.0235	U	0.0133	U	0.0489	U	0.05560	U	0.0326	U	0.01440	U	0.01000	U	0.01510	U	0.0604	U	0.01460	U	0.01770	U	0.03010	U	0.01160	U	0.34700	U	0.0178	U	0.03440	U	0.04890	U	0.03290	U	0.01430	U	0.769	U
	9/3/2014	0.0101	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/3/2015	0.0100	U	0.00228	UF	0.00198	UF	0.00158	U	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	UF	0.00257	U	0.0285	U	0.00851	UF	0.00178	U	0.00218	U	0.00446	U	0.419	U
	9/16/2015	0.0034	U	0.0091	U	0.0075	U	0.0036	U	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
MW-17	4/16/2008	0.010	U	**0.25**		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	0.051	U	0.51	U
	8/4/2009	**0.017**	J	**0.37**		**0.36**		**0.011**	J	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
	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	0.051	U	0.101	U	5.05	U
	11/20/2012	**0.010**	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	0.0049	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	0.002	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	0.002	U	**0.388**		0.0009	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	0.010	U	**0.39**		**0.0162**	J	**0.00748**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.077	U	**0.264**		0.0746	U	0.0725	U	0.13300	U	0.106	U	0.08600	U	0.08190	U	0.00466	U	0.0839	U	0.11700	U	0.09330	U	0.08600	U	0.10100	U	0.11600	U	0.109	U	0.08390	U	0.07250	U	0.08390	U	0.07460	U	0.0518	U
	3/27/2014	0.031	U	**0.159**		0.0133	U	0.0171	U	0.05560	U	0.0326	U	0.01440	U	0.01000	U	0.01510	U	0.0604	U	0.01460	U	0.01770	U	0.03010	U	0.01160	U	0.34700	U	0.0178	U	0.03440	U	0.04890	U	0.03290	U	0.01430	U	0.769	U
	9/2/2014	0.010	U	**0.218**		**0.0105**	J	**0.00287**	J	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/3/2015	0.010	U	**0.357**	F	**0.0849**	F	**0.006**	J	0.00290	U	0.0026	U	0.00280	U	0.00430	U	0.00430	U	0.0035	U	0.00446	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/14/2015	0.0034	U	**0.18**		**0.0074**	J P	0.0036	U	0.00700	U	0.0071	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00690	U	0.0097	U	0.00610	U	0.09400	U	0.09400	U	0.00460	U	0.40	U

Table 3-3: Groundwater Pesticides Data Summary

	Test 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	
Site-Specific RRS Values		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**	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag
MW-18	8/6/2009	0.051	U	**0.375**		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	0.051	U	0.051	U	0.101	U	5.05	U
	7/15/2011	0.050	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	**0.025**	J	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
	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	0.002	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	0.010	U	**0.409**	J	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	**0.00680**	J	0.0035	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	0.076	U	**0.463**		0.0742	U	0.0722	U	0.13200	U	0.105	U	0.08560	U	0.08140	U	0.00464	U	0.0835	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
	3/26/2014	0.030	U	**0.356**		0.0127	U	0.0164	U	0.05350	U	0.0313	U	0.01380	U	0.00963	U	0.01450	U	0.0581	U	0.01400	U	0.01700	U	0.02890	U	0.01120	U	0.33300	U	0.0171	U	0.03310	U	0.04700	U	0.48100	U	0.01370	U	0.74	U
	9/4/2014	0.010	U	**0.102**		0.00198	U	**0.00327**	J	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.004260	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	UX	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/4/2015	0.010	U	**0.111**	F	0.00198	U	0.00158	U	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.004260	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	UF	0.00485	U	0.0285	U	0.00851	UF	0.00178	U	0.00218	U	0.00446	U	0.419	U
	9/15/2015	0.0034	U	**0.19**		0.0074	U	0.0036	U	0.00700	U	0.0071	U	0.00370	U	0.00350	U	0.003800	U	0.005	U	0.00520	U	0.00420	U	0.00620	U	0.00500	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00460	U	0.40	U
MW-19	8/6/2009	**0.009**	J	**0.113**		0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	**0.012**	J	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
	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.076	U	0.0718	U	0.0738	U	0.0718	U	0.13100	U	0.105	U	0.08510	U	0.08100	U	0.00462	U	0.0831	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
	3/27/2014	0.003	U	**0.074**		0.0013	U	**0.0109**		0.00545	U	0.0032	U	0.00141	U	0.00098	U	0.00148	U	0.00592	U	0.00143	U	0.00174	U	0.00295	U	0.00114	U	0.03400	U	0.00175	U	0.00337	U	0.00480	U	0.00323	U	0.00140	U	0.0754	U
	9/4/2014	0.010	U	**0.0762**		**0.00515**	J	**0.00891**	J	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.004260	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/4/2015	0.010	U	**0.0288**	JF	**0.0175**	JF	0.00784	J	0.00291	U	0.00261	U	0.00281	U	0.00241	U	0.004320	U	0.00352	U	0.00462	U	0.00452	U	0.00372	U	0.00704	UF	0.00492	U	0.0289	U	0.00864	UF	0.00181	U	0.00221	U	0.00452	U	0.425	U
	9/15/2015	0.0034	U	**0.010**	J P	0.0075	U	0.0036	U	0.00710	U	0.0072	U	0.00370	F1	0.00350	U	0.003800	F2	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
MW-20	8/6/2009	**2.500**	U	**25.7**		**2.5**	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	5.00	U	5	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00	U	25	U	5.00	U	2.5	U	2.5	U	5.00	U	250	U
	7/12/2011	**0.460**	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	0.005	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	0.010	U	**2.21**	D	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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**		**0.148**	U	0.144	U	0.26400	U	0.21	U	0.17100	U	0.16300	U	**0.01880**	J	0.167	U	0.23300	U	0.18600	U	0.17100	U	0.20000	U	0.23100	U	0.216	U	0.16700	U	0.14400	U	0.16700	U	0.14800	U	0.103	U
	3/27/2014	0.031	U	**2.64**		**0.0229**		0.0169	U	0.05510	U	0.0323	U	0.01420	U	0.00991	U	0.01500	U	0.0598	U	0.01440	U	0.01750	U	0.02980	U	0.01150	U	0.34300	U	0.0176	U	0.03410	U	0.04840	U	0.03260	U	0.01410	U	0.762	U
	9/3/2014	**0.0803**		**12.4**	D	**0.469**		**0.074**		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.004260	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/5/2015	**0.0106**	J	**4.71**	DF	**0.0521**	F	**0.0171**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/17/2015	**0.11**		**13**		**0.98**		**0.034**	J P	0.00700	U	0.0071	U	0.00360	U	0.00350	U	0.003700	U	0.005	U	0.00520	U	0.00410	U	0.00620	U	**0.0092**	J P	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	**0.012**	J	0.39	U
MW-21	8/6/2009	**0.576**		**7.46**		**0.5**	U	**0.35**	J	0.5	U	0.5	U	0.5	U	0.5	U	1.0	U	1	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	1.00	U	0.5	U	0.5	U	1.00	U	50	U
	7/12/2011	**0.210**	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	**0.130**		**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	0.002	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	0.002	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	0.010	U	**0.286**		0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.076	U	**2.53**		0.0742	U	0.0722	U	0.13200	U	0.105	U	0.08560	U	0.08140	U	0.00464	U	0.0835	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
	3/27/2014	0.031	U	**0.856**		0.0133	U	0.0171	U	0.05560	U	0.0326	U	0.01440	U	0.01000	U	0.01510	U	0.0604	U	0.01460	U	0.01770	U	0.03010	U	0.01160	U	0.34700	U	0.0178	U	0.03440	U	0.04890	U	0.03290	U	0.01430	U	0.769	U
	9/4/2014	**0.359**		**5.52**	D	**0.574**		**0.280**		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/5/2015	**0.081**		**3.44**	DF	**0.283**	F	**0.088**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	**0.02090**	J	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/17/2015	0.0034	U	**1.8**		0.0074	U	**0.0047**	J P	0.00700	U	0.0071	U	0.00370	U	0.00350	U	0.00380	U	0.005	U	0.00520	U	**0.013**	J	0.00620	U	0.00500	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00450	U	0.40	U
MW-22	4/5/2012	**1.520**	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	5.05	U	25.3	U	5.05	U	5.05	U	2.53	U	5.05	U	253	U
	11/20/2012	**1.300**	*	**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	0.0098	U	0.0049	U	0.0049	U	0.0098	U	**3.7**	
	3/27/2013	**1.090**		**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	**1.100**	D	**33.7**	DX	**0.725**		**0.382**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	**0.0521**	J	0.0035	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**		**0.489**		0.2610	U	0.208	U	0.1690	U	0.1610	U	**0.03040**	J	0.165	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
	3/27/2014	**0.284**		**14.3**		**0.212**		**0.166**		0.0535	U	0.0313	U	0.0138	U	0.0096	U	0.01450	U	0.0581	U	0.0140	U	0.0170	U	0.0289	U	0.0112	U	0.3330	U	0.0171	U	0.0331	U	0.0470	U	0.0317	U	0.0137	U	0.7400	
	9/5/2014*[4]	**1.01**	D	**37.098**	D	**22.4**	D	**0.365**		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/6/2015	**0.48**		**21.6**	DF	**9.53**	DF	**0.204**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/17/2015	**0.58**		**32**		**4.5**		**0.28**	F1	0.00660	U	0.0067	U	**0.021**	J P	0.00330	U	**0.048**	P	0.0048	U	0.00490	F1	0.00390	F1	0.00590	U	0.00480	U	0.00650	F1	0.0091	F1	0.00570	U	0.08900	U	0.08900	U	**0.056**		**4.7**	
MW-23	9/5/2014	**0.0227**	J	**5.17**	D	**0.0174**	J	**0.0517**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/5/2015	**0.0189**	J	**4.63**	DF	**0.0316**	JF	**0.0528**		0.00290	U	0.0026	U	0.00290	U	0.00430	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00460	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/17/2015	**0.012**	J	**4.5**		**0.011**	J	**0.051**	P	0.00700	U	0.0071	U	0.00370	U	0.00350	U	0.00380	U	0.005	U	0.00520	U	0.00410	U	0.00620	U	0.00500	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00450	U	0.40	U
MW-24	3/3/2015	0.0101	U	**0.0041**	JF	0.002	UF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/14/2015	0.0034	U	0.0090	U	0.0074	U	0.0036	U	0.00700	U	0.0071	U	0.00370	U	0.00350	U	0.00380	U	0.005	U	0.00520	U	0.00410	U	0.00620	U	0.00500	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00450	U	0.39	U

Sources: Analytical results from March 2013 to September 2015 are from samples directly collected by EIC. Historical data prior to March 2013 from CH2MHill 2008, 2009, and 2012 Groundwater Reports and Law Engineering 2001-2003 Compliance Status Reports and Addendums

Notes:

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 limit.
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 laboratory QC deficiency was observed in quality control review of data
F = Relative percent difference exceeded lab control limits
P = The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

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 correlation.
*[4] = Result for beta-BHC was adjusted based on tubing rinsate sample, see Xenco lab report number 492804

Table 3-4: Historical Groundwater Potentiometric Surface Elevations

Well ID # (Well Diameter, in.)	Current TOC Elevation (ft.)	Groundwater Potentiometric Surface Elevation (ft.)															MW Min.*	MW Max.*	MW Range*	MW Avg.*	MW Var.*
		Aug-99	Sep-01	Apr-02	Apr-08	Aug-09	Jul-11	Apr-12	Mar-13	Jun-13	Sep-13	Dec-13	Mar-14	Sep-14	Mar-15	Sep-15					
MW-1 (2)	105.22	NM	NM	NM	79.59	78.22	76.32	77.48	79.63	78.07	79.60	78.00	79.77	77.51	79.11	77.29	76.32	79.77	3.45	78.38	1.29
MW-1A (2)	105.33	76.54	77.22	77.38	79.57	78.47	76.33	77.48	79.62	78.06	79.58	77.97	79.88	77.50	79.11	77.29	76.33	79.88	3.55	78.13	1.37
MW-2 (2)	98.86	76.48	77.13	77.36	79.45	78.16	78.25	NM	79.54	77.97	79.41	77.89	79.83	77.39	78.98	77.20	76.48	79.83	3.35	78.22	1.13
MW-3 (2)	97.12	76.42	77.11	77.39	NL	NL	NL	NL	NL	NL	79.20	77.78	79.69	77.28	78.95	77.19	76.42	79.69	3.27	77.89	1.25
MW-4U (2)	103.51	NI	77.12	77.3	79.64	78.36	NM	77.51	79.60	78.16	79.59	77.98	79.81	77.55	78.99	77.25	77.12	79.81	2.69	78.37	1.05
MW-5A (2)	96.67	NI	NM	NM	78.96	77.91	76.35	77.32	79.12	77.71	79.07	77.71	79.38	77.24	78.94	77.22	76.35	79.38	3.03	78.08	0.96
MW-5D (2)	96.12	NI	77.1	77.36	78.40	77.92	76.37	77.36	79.16	77.77	79.10	77.76	79.36	77.31	78.94	77.24	76.37	79.36	2.99	77.94	0.83
MW-6 (2)	102.25	NI	77.17	77.7	79.24	78.70	76.40	77.46	79.53	77.87	79.25	77.81	79.59	77.39	78.96	77.30	76.40	79.59	3.19	78.17	1.04
MW-7 (2)	98.1	NI	77.09	77.49	79.74	78.50	DRY	77.56	79.67	78.11	79.75	78.19	80.01	77.58	79.41	77.42	77.09	80.01	2.92	78.50	1.14
MW-8 (2)	93.54	NI	76.6	77.4	78.75	77.79	76.34	77.25	78.64	77.52	78.88	77.69	79.20	77.22	78.90	77.18	76.34	79.20	2.86	77.81	0.83
MW-9 (2)	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NA	NA	NA	NA	NA
MW-10 (2)	99.83	NI	NI	77.45	79.75	78.52	76.33	77.58	79.72	78.10	79.76	78.12	80.07	77.58	79.08	77.51	76.33	80.07	3.74	78.43	1.35
MW-11 (2)	100.87	NI	NI	77.46	79.88	76.67	79.57	77.6	79.83	78.16	79.83	78.1	80.1	77.58	79.50	77.39	76.67	80.10	3.43	78.59	1.47
MW-12 (2)	94.06	NI	NI	77.35	78.23	77.39	76.25	76.88	78.39	77.06	78.14	77.36	78.51	76.80	78.66	76.83	76.25	78.66	2.41	77.53	0.60
MW-13 (2)	93.55	NI	NI	77.38	78.10	77.13	DRY	DRY	78.53	76.98	77.87	76.98	78.31	76.58	78.47	76.71	76.58	78.53	1.95	77.55	0.53
MW-14 (2)	102.11	NI	NI	NI	79.30	78.16	76.36	77.45	78.72	76.72	78.97	77.95	78.59	76.86	79.11	77.33	76.36	79.30	2.94	77.96	1.01
MW-15 (2)	98.13	NI	NI	NI	78.88	78.01	DRY	77.40	79.24	78.10	79.18	78.10	79.35	77.37	78.93	77.30	77.30	79.35	2.05	78.35	0.63
MW-16 (2)	97.15	NI	NI	NI	79.66	78.50	76.45	77.56	79.73	78.18	79.91	78.12	79.99	77.71	79.22	77.50	76.45	79.99	3.54	78.54	1.32
MW-17 (2)	93.65	NI	NI	NI	79.03	77.90	76.24	75.26	79.17	77.58	79.04	77.80	79.30	77.25	79.12	77.23	75.26	79.30	4.04	77.91	1.67
MW-18 (2)	95.56	NI	NI	NI	NI	78.15	76.43	77.42	79.39	77.91	79.42	77.92	79.56	77.43	79.02	77.38	76.43	79.56	3.13	78.18	1.06
MW-19 (2)	96.6	NI	NI	NI	NI	78.07	76.35	77.35	79.40	77.80	79.47	77.89	79.68	77.39	79.06	77.30	76.35	79.68	3.33	78.16	1.18
MW-20 (2)	96.57	NI	NI	NI	NI	78.48	76.38	77.49	79.68	78.08	79.73	78.08	79.93	77.57	79.29	77.47	76.38	79.93	3.55	78.38	1.32
MW-21 (2)	97.55	NI	NI	NI	NI	78.41	76.34	77.53	79.71	78.05	79.79	78.08	79.98	77.53	79.36	77.44	76.34	79.98	3.64	78.38	1.40
MW-22 (2)	98.88	NI	NI	NI	NI	NI	NM	77.47	79.74	78.10	79.75	78.12	79.96	77.57	79.28	77.50	77.47	79.96	2.49	78.61	1.12
MW-23 (2)	93.61	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	77.03	78.73	76.98	76.98	78.73	1.75	77.58	0.99
MW-24 (2)	93.07	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	78.72	76.86	76.86	78.72	1.86	77.79	1.73
Event Min.*[2]		76.42	76.60	77.30	78.10	76.67	76.24	75.26	78.39	76.72	77.87	76.98	78.31	76.58	78.47	76.71	**Global Min.*[3]**		75.26		
Event Max.*[2]		76.54	77.22	77.70	79.88	78.70	79.57	77.60	79.83	78.18	79.91	78.19	80.10	77.71	79.50	77.51	**Global Max.*[3]**		80.10		
Event Range*[2]		0.12	0.62	0.40	1.78	2.03	3.33	2.34	1.44	1.46	2.04	1.21	1.79	1.13	1.03	0.80	**Global Range*[3]**		4.84		
Event Avg.*[2]		76.48	77.07	77.42	79.19	78.07	76.65	77.32	79.35	77.82	79.32	77.89	79.56	77.34	79.03	77.25	**Global Avg.*[3]**		77.98		
Event Var.*[2]		0.00	0.04	0.01	0.31	0.25	0.78	0.26	0.19	0.17	0.27	0.08	0.26	0.08	0.06	0.04	**Global Var.*[3]**		1.11		

Notes:

NI - Not Installed

NL - Not Located

NA - Not Applicable

*** = Event Min, Max, Range, Avg., and Var.** - are the minimum, maximum, range, average, and total variance for each respective groundwater gauging event.

***[2] = MW Min., Max., Range, Avg., and Var.** - are the minimum, maximum, range, average, and total variance for each monitoring well throughout all gauging events from March 203 to March 2015 where available.

***[3]= Global Min., Max., Range, Avg., and Var.** - are the minimum, maximum, range, average, and total variance for all monitoring wells throughout all events from March 2013 to March 2015

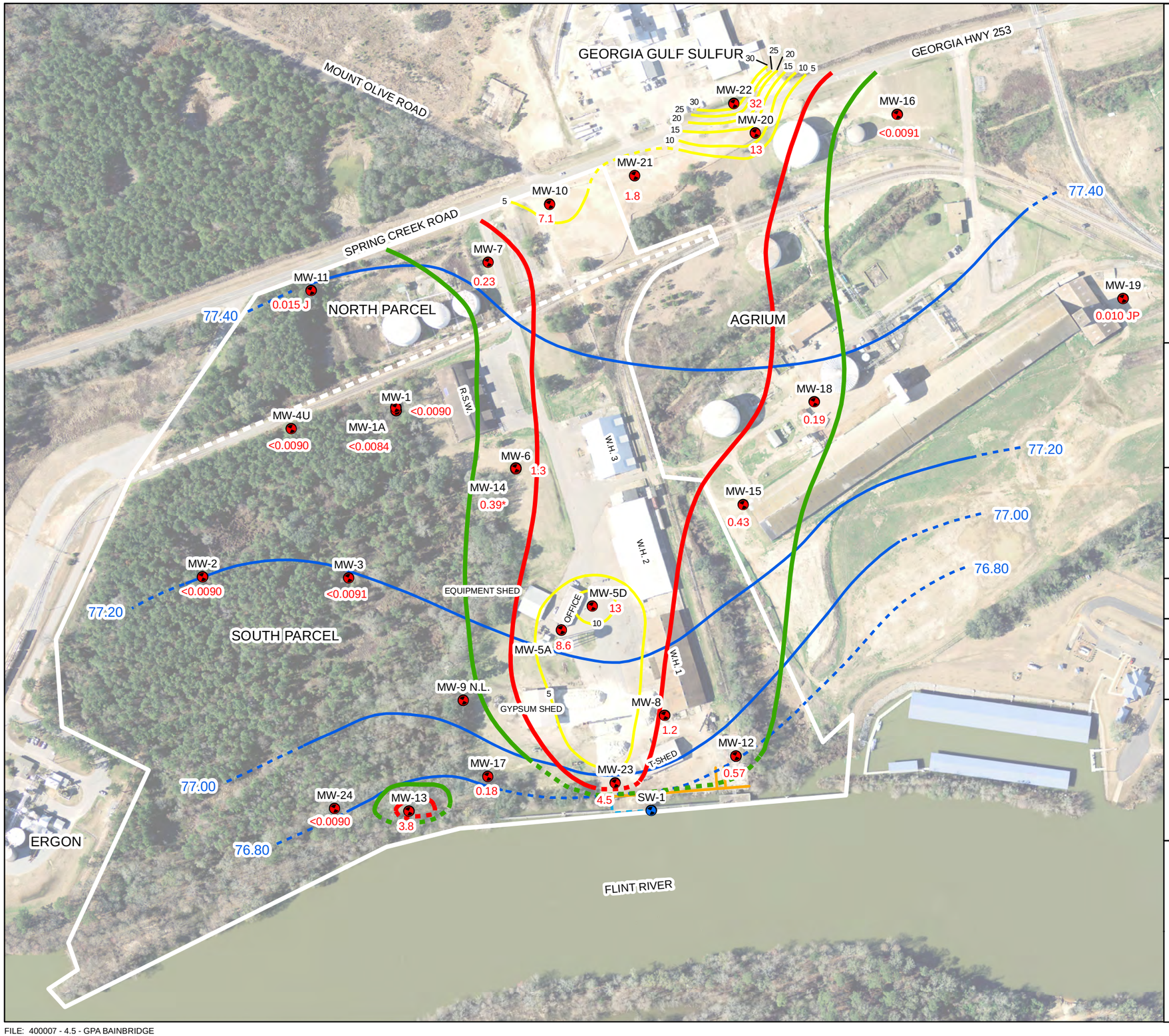
Groundwater elevations prior to March 2013 are derived from historical groundwater monitoring reports by previous consultants

Top of casing (TOC) elevations are based on the most recent survey by Donaldson Garrett and Associates in April 2015

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

SIXTH VIRP SEMI-ANNUAL PROGRESS REPORT

FIGURES



Legend

MONITORING WELL

STILLING WELL

MW-18 MONITORING WELL ID

N.L. NOT LOCATED

SITE FEATURES

BULKHEAD

NORTH AND SOUTH PARCEL DIVISION

BAINBRIDGE PARCEL LINES

PIER

77.40 GROUNDWATER ELEVATION CONTOUR (FT., NAVD88)

BETA-BHC CONCENTRATIONS

CONTOURS

DELINIATION CRITERION OF 0.1 µg/L

RRS TYPE 4 OF 1.6 µg/L

BETA BHC CONTOURS (5 µg/L INTERVAL)

CONCENTRATIONS

0.57 CONCENTRATION IN µg/L

0.39* CONCENTRATION NOT CONSIDERED IN CONTOURS FOR DEEP WELLS (SCREENED BELOW 50 FT BGS)

J CONCENTRATION BELOW QUANTITATION LIMIT AND ABOVE DETECTION LIMIT

P THE %RPD BETWEEN THE PRIMARY CONFRIMATION COLUMN/DETECTOR IS >40%. THE LOWER VALUE HAS BEEN REPORTED

GROUNDWATER ELEVATIONS

GROUNDWATER CONTOUR (0.2 FT. INTERVALS)

ESTIMATED GROUNDWATER CONTOUR

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY. WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400 Feet

DESIGNED BY: W.G.	REVISIONS NO.	REVISIONS DATE	DATE: 11/2/2015
DRAWN BY: S.F.H.			SCALE: SEE BAR SCALE
CHECKED BY: A.S.			SHEET NO.: 1 OF 1
APPROVED BY: R.M.			

FIGURE 2-1: SEPTEMBER 2015 BETA-BHC CONTAMINANT CONCENTRATION CONTOURS RELATIVE TO POTENTIOMETRIC SURFACE CONTOURS

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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

FILE: 400007 - 4.5 - GPA BAINBRIDGE



Legend

- MONITORING WELL
- STILLING WELL
- MW-18 MONITORING WELL ID
- N.L. NOT LOCATED

SITE FEATURES

- BULKHEAD
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.
WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400

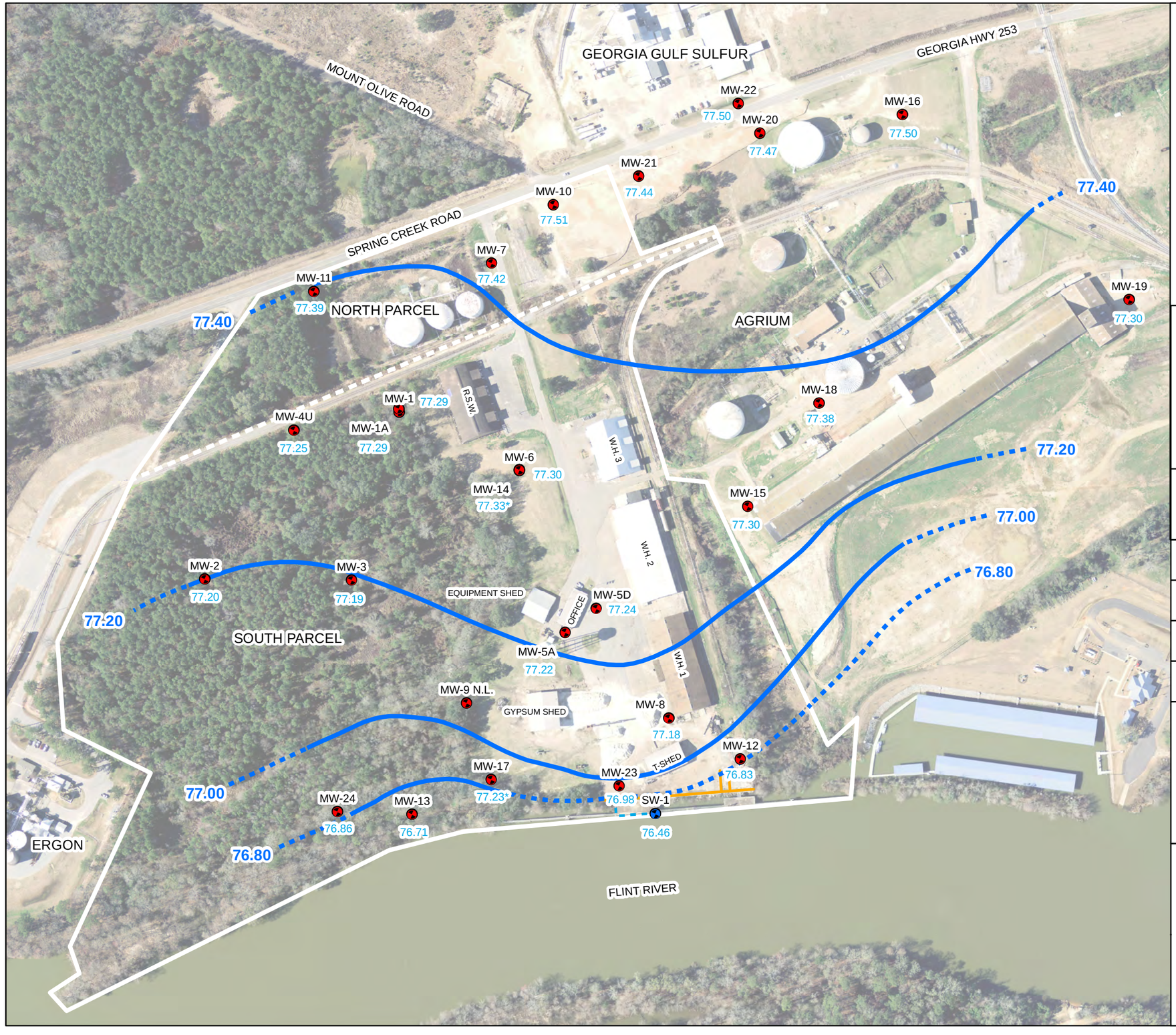
Feet

DESIGNED BY: A.G.	REVISIONS NO.	REVISIONS DATE	DATE: 4/17/2015
DRAWN BY: A.G.			SCALE: SEE BAR SCALE
			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 3-1: SITE MAP

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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



Legend

- MONITORING WELL
- STILLING WELL
- MW-18 MONITORING WELL ID
- N.L. NOT LOCATED

SITE FEATURES

- BULKHEAD
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER

GROUNDWATER CONTOURS

- CONTOUR (0.2 FT.)
- ESTIMATED CONTOUR
- 77.00 GROUNDWATER CONTOUR ELEVATION (FT., NAVD 88)
- 77.44 GROUNDWATER ELEVATION (FT., NAVD 88)
- * GROUNDWATER ELEVATION NOT CONSIDERED AS WELL IS SCREENED GREATER THAN 50 FEET BELOW GROUND SURFACE

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.
WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

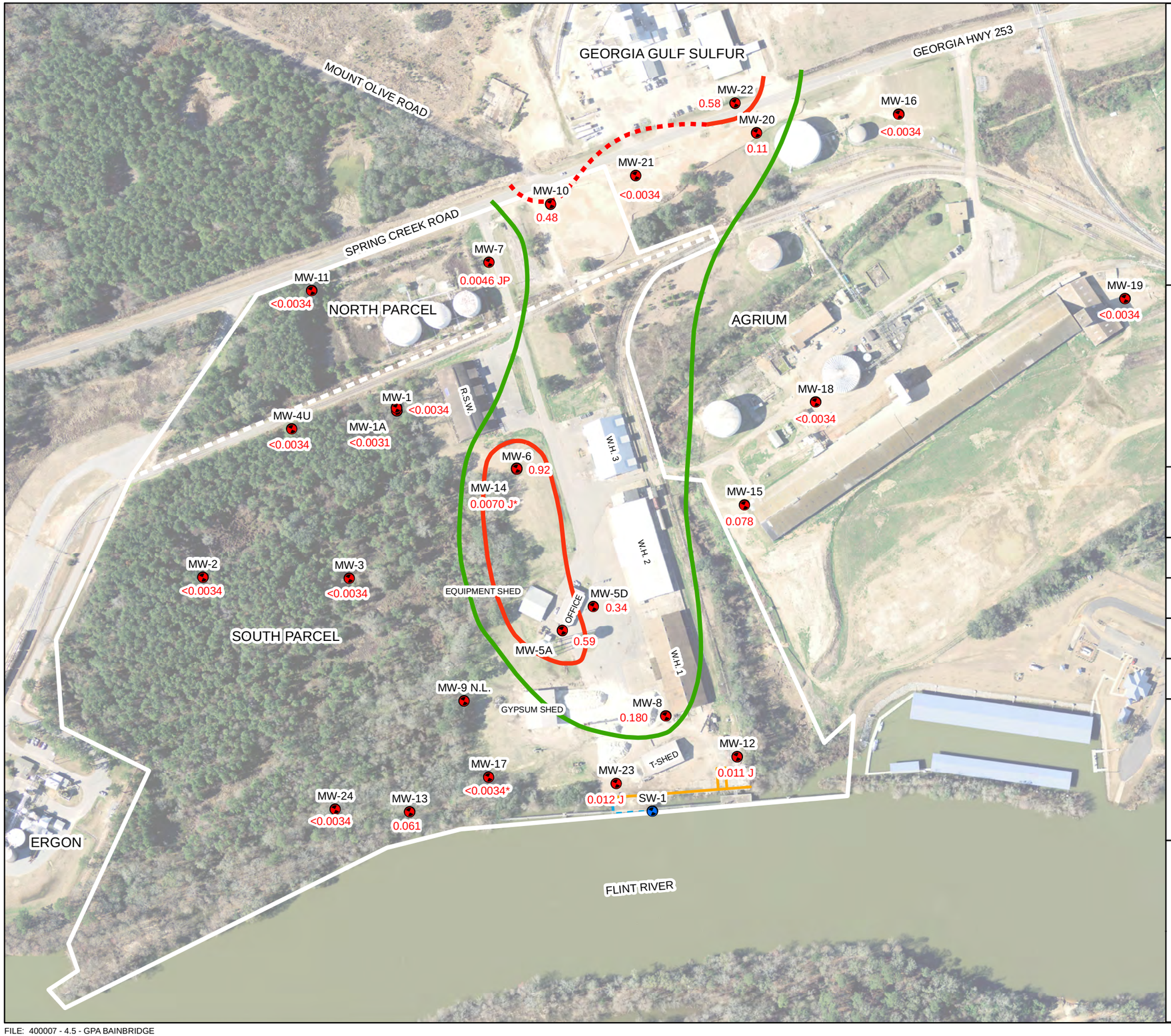
400 200 0 400 Feet

DESIGNED BY: A.G.	REVISIONS NO.	REVISIONS DATE	DATE: 11/2/2015
DRAWN BY: A.G.			SCALE: SEE BAR SCALE
			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 3-2: SEPTEMBER 2015 GROUNDWATER POTENTIOMETRIC SURFACE MAP

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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



Legend

- MONITORING WELL
- STILLING WELL
- MW-18 MONITORING WELL ID
- N.L. NOT LOCATED

SITE FEATURES

- BULKHEAD
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER

ALPHA-BHC CONCENTRATIONS CONTOURS

- DELINIATION CRITERION OF 0.1 µg/L
- RRS TYPE 4 OF 0.5 µg/L

CONCENTRATIONS

- <0.0034 CONCENTRATION IN µg/L
- <0.0034* CONCENTRATION NOT CONSIDERED IN CONTOURS FOR DEEP WELLS (SCREENED BELOW 50 FT BGS)
- J CONCENTRATION BELOW QUANTITATION LIMIT AND ABOVE DETECTION LIMIT
- P THE %RPD BETWEEN THE PRIMARY CONFIRMATION COLUMN/DETECTOR IS >40%. THE LOWER VALUE HAS BEEN REPORTED

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.
WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400 Feet

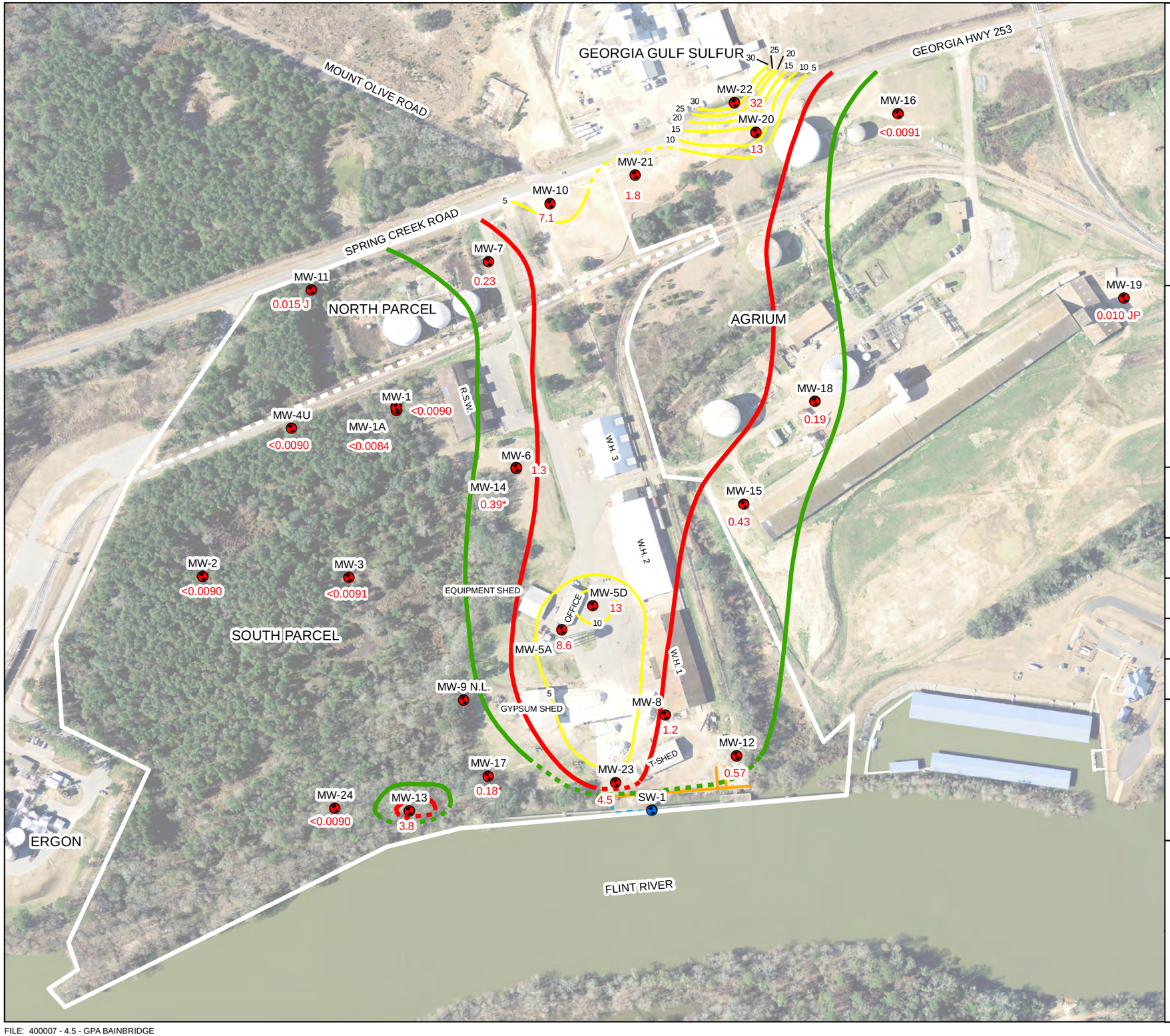
DESIGNED BY: A.G.	REVISIONS NO.	REVISIONS DATE	DATE: 11/2/2015
DRAWN BY: S.F.H.			SCALE: SEE BAR SCALE
CHECKED BY: A.S.			SHEET NO.: 1 OF 1
APPROVED BY: R.M.			

FIGURE 3-3: SEPTEMBER 2015 ALPHA-BHC ISOCONCENTRATION MAP

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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

FILE: 400007 - 4.5 - GPA BAINBRIDGE



Legend

MONITORING WELL

STILLING WELL

MW-18 MONITORING WELL ID

N.L. NOT LOCATED

SITE FEATURES

BULKHEAD

NORTH AND SOUTH PARCEL DIVISION

BAINBRIDGE PARCEL LINES

PIER

BETA-BHC CONCENTRATIONS

CONTOURS

DELINIATION CRITERION OF 0.1 µg/L

RRS TYPE 4 OF 1.6 µg/L

BETA BHC CONTOURS (5 µg/L INTERVAL)

CONCENTRATIONS

0.57 CONCENTRATION IN µg/L

0.39* CONCENTRATION NOT CONSIDERED IN CONTOURS FOR DEEP WELLS (SCREENED BELOW 50 FT BGS)

J CONCENTRATION BELOW QUANTITATION LIMIT AND ABOVE DETECTION LIMIT

P THE %RPD BETWEEN THE PRIMARY CONFIRMATION COLUMN/DETECTOR IS >40%. THE LOWER VALUE HAS BEEN REPORTED

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY. WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400

Feet

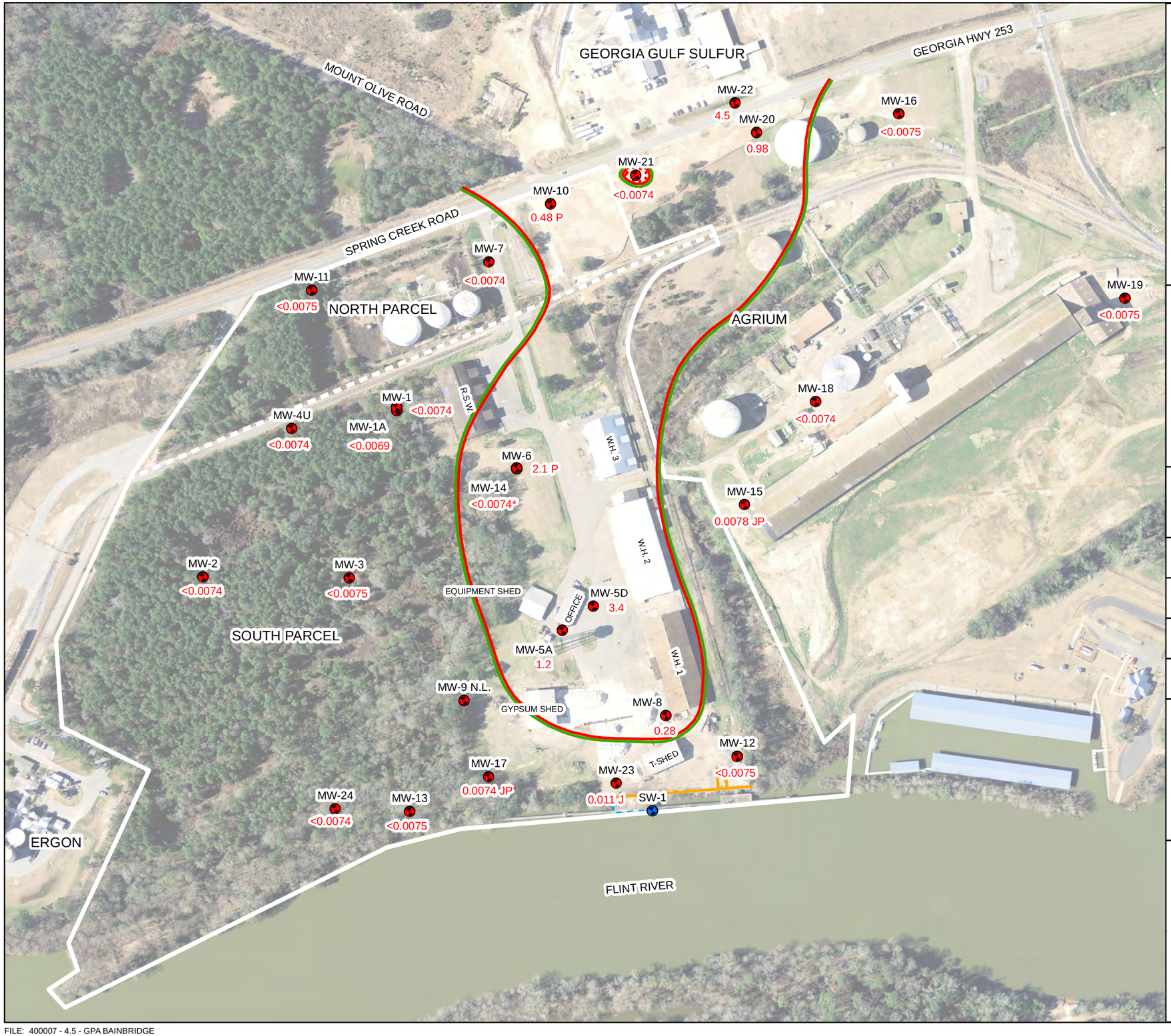
DESIGNED BY: A.G.	REVISIONS NO.	REVISIONS DATE	DATE: 10/28/2015
DRAWN BY: A.G.			SCALE: SEE BAR SCALE
CHECKED BY: A.S.			SHEET NO.: 1 OF 1
APPROVED BY: R.M.			

FIGURE 3-4: SEPTEMBER 2015 BETA-BHC ISOCONCENTRATION MAP

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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

FILE: 400007 - 4.5 - GPA BAINBRIDGE



Legend

MONITORING WELL

STILLING WELL

MW-18 MONITORING WELL ID

N.L. NOT LOCATED

SITE FEATURES

BULKHEAD

NORTH AND SOUTH PARCEL DIVISION

BAINBRIDGE PARCEL LINES

PIER

DELTA-BHC CONCENTRATIONS CONTOURS

DELINIATION CRITERION OF 0.1 µg/L

RRS TYPE 4 OF 0.1 µg/L

CONCENTRATIONS

4.5	CONCENTRATION IN µg/L
<0.0074*	CONCENTRATION NOT CONSIDERED IN CONTOURS FOR DEEP WELLS (SCREENED BELOW 50 FT BGS)
J	CONCENTRATION BELOW QUANTITATION LIMIT AND ABOVE DETECTION LIMIT
P	THE %RPD BETWEEN THE PRIMARY CONFIRMATION COLUMN/DETECTOR IS >40%. THE LOWER VALUE HAS BEEN REPORTED.

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.
WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400

Feet

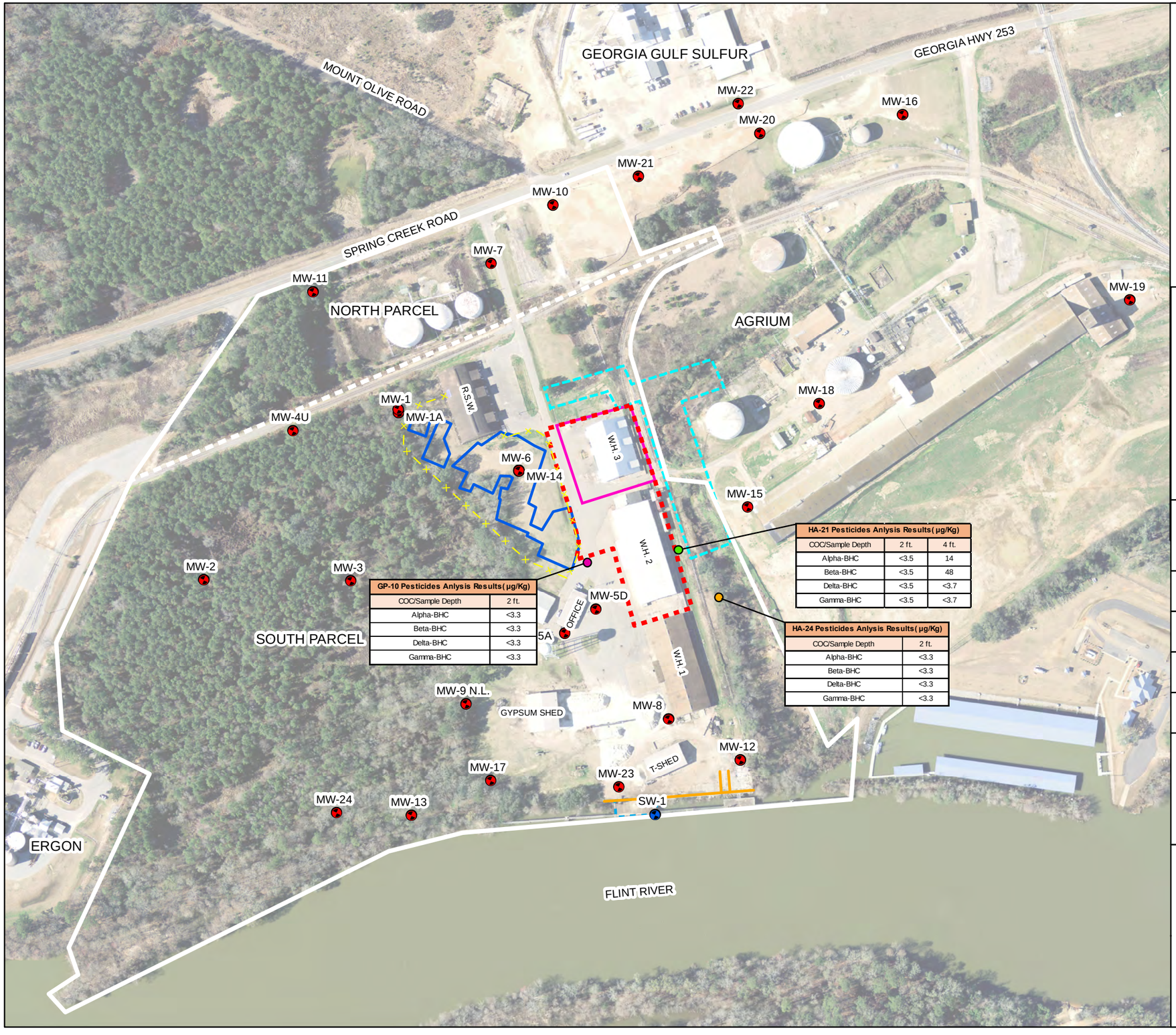
DESIGNED BY: A.G.	REVISIONS NO.	REVISIONS DATE	DATE: 10/28/2015
DRAWN BY: S.F.H.			SCALE: SEE BAR SCALE
			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 3-5: SEPTEMBER 2015 DELTA-BHC ISOCONCENTRATION MAP

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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

FILE: 400007 - 4.5 - GPA BAINBRIDGE



GP-10 Pesticides Anlysis Results (µg/Kg)	
COC/Sample Depth	2 ft.
Alpha-BHC	<3.3
Beta-BHC	<3.3
Delta-BHC	<3.3
Gamma-BHC	<3.3

HA-21 Pesticides Anlysis Results (µg/Kg)		
COC/Sample Depth	2 ft.	4 ft.
Alpha-BHC	<3.5	14
Beta-BHC	<3.5	48
Delta-BHC	<3.5	<3.7
Gamma-BHC	<3.5	<3.7

HA-24 Pesticides Anlysis Results (µg/Kg)	
COC/Sample Depth	2 ft.
Alpha-BHC	<3.3
Beta-BHC	<3.3
Delta-BHC	<3.3
Gamma-BHC	<3.3

Legend

- MONITORING WELL
- STILLING WELL
- MW-18 MONITORING WELL ID
- N.L. NOT LOCATED

SITE FEATURES

- BULKHEAD
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER

AREAS OF CONCERN (AOC)

CURRENT AOC EXTENTS

- AOC-1
- AOC-2
- FORMER AOC-3
- PROPOSED AOC-2 BOUNDARY
- AOC-1 FENCELINE
- SOIL BORING REFERENCED FROM (LAW, 1999) REPORT
- SOIL BORING REFERENCED FROM (LAW, 2001) REPORT
- SOIL BORING REFERENCED FROM (LAW, 2002) REPORT

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY. WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

REFERENCES:
(LAW, 1999) CSR
(LAW, 2001) REVISED CSR
(LAW, 2002) ADDENDUM TO REVISED CSR
SEE FULL REFERENCES IN GPA BAINBRIDGE SIXTH SEMIANNUAL PROGRESS REPORT

Soil Risk Reduction Standards and Delineation Criteria (µg/Kg)		
Constituent of Concern	Delineation	RRS
Alpha-BHC	660	660
Beta-BHC	660	3,100
Delta-BHC	10	100
Gamma-BHC	660	12,000

N

400 200 0 400 Feet

DESIGNED BY: A.G.	REVISIONS		DATE: 11/2/2015
	NO.	DATE	SCALE: SEE BAR SCALE
DRAWN BY: A.G.			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 4-1: PROPOSED HORIZONTAL COVENANT LIMITS FOR AOC-2

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

SIXTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT A
SEPTEMBER 2015 WELL PURGING AND SAMPLING FIELD LOGS

ENVIRONMENTAL INTERNATIONAL CORPORATION

PAGE 1 OF 1

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-1

DATE: 9/15/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny partly cloudy ~79 °F <8 mph 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): 27.93 FT. | TIME: 15:59 | BTOC WELL SCREEN INTERVAL: 22.01 FT. to 32.01 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 30.29 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 32.8 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

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA Lady | 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.)
16:15	0	26.10	3.55	304	0.379	0.0	3.44	27.94	
16:20	780	24.72	3.51	309	0.395	0.0	2.93	27.94	
16:25	1500	24.02	3.49	313	0.401	0.0	2.93	27.94	
16:30	2200	23.48	3.49	315	0.406	0.0	2.98	27.94	
16:35	3040	23.52	3.49	317	0.407	0.0	2.71	27.94	
16:40	3640	23.44	3.48	319	0.409	0.0	2.67	27.94	
16:45	4400	23.20	3.48	321	0.414	0.0	2.64	27.94	

COMMENTS:

SAMPLE COLLECTION TIME: 16:47

PREPARED BY: Amelia 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.)	34.5
Initial tubing depth (ft.) BTOC	30.5
Final tubing depth (ft.) BTOC	30.5
Initial pump speed	6.16
Time pump speed was initialized	16:04
Pump speed at flow into cylinder	6.16
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	16:29	16:43							
Cummulative Volume (mL)	2000	4000							

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-1A

DATE: 9/15/15	PROJECT NAME: GPA Bainbridge	PROJECT NO: 400007 - 4.5
WEATHER CONDITIONS: Partly Cloudy ~75°F		
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): 28.04 FT. TIME: 16:58	BTOC WELL SCREEN INTERVAL: 25.85 FT. to 35.85 FT.	
MEASURED TOTAL WELL DEPTH (**BGS**): 33.96 FT.	MEASURED TOTAL WELL DEPTH (BTOC): 36.81 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		
LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA adg	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.)
17:13	0	24.46	3.48	320	0.495	0.0	3.00	28.06	
17:18	620	21.94	3.46	324	0.541	0.0	2.41	28.05	
17:23	1240	21.87	3.47	326	0.502	0.0	2.42	28.05	
17:28	1860	21.99	3.46	329	0.504	0.0	2.36	28.05	
17:33	2420	21.76	3.45	330	0.505	0.0	2.32	28.05	
17:38	3020	21.78	3.48	331	0.510	0.0	2.27	28.05	

COMMENTS:

SAMPLE COLLECTION TIME: 17:40

PREPARED BY: ADG

* 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.)	~~30.0~~ adg 35.5
Initial tubing depth (ft.) BTOC	31.5
Final tubing depth (ft.) BTOC	31.5
Initial pump speed	6.08
Time pump speed was initialized	17:08
Pump speed at flow into cylinder	6.08
Started new roll of tubing at	
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	17:29								
Cummulative Volume (mL)	2000								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

PAGE 1 OF 1

WELL/SAMPLE NO: MW-2

DATE: 9-14-15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: 79°F No wind CLCV

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): 21.66 FT. | TIME: 12:36 | BTOC WELL SCREEN INTERVAL: 15.85 FT. to 25.85 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 26.35 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 29.2 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

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA adg | 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.)
	13:02	0	21.55	7.07	119	0.305	0.0	3.46	21.83	
	13:07	1820	19.42	4.39	233	0.074	0.0	1.69	21.82	
1380	13:12	3780	19.73	4.51	246	0.072	0.0	1.29	21.81	
1200	13:17	4980	19.43	4.50	254	0.070	0.0	1.18	21.81	
1320	13:23	~~6300~~	19.40	4.42	264	0.074	0.0	0.99	21.82	V=8120 mL
1100	13:28	~~8400~~	19.34	4.44	265	0.075	0.0	0.92	21.82	V=9400
1000	13:33	~~9400~~	19.33	4.46	265	0.075	0.0	0.86	21.82	V=11,400
100	13:38	11400	19.38	4.44	268	0.076	0.0	0.81	21.82	
140	13:43	15400	19.41	4.46	268	0.076	0.0	0.79	21.82	

COMMENTS:

SAMPLE COLLECTION TIME: 13:45

PREPARED BY: SHPCm

* 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.)	30
Initial tubing depth (ft.) BTOC	26
Final tubing depth (ft.) BTOC	26
Initial pump speed	10.25
Time pump speed was initialized	1300
Pump speed at flow into cylinder	12.2
Started new roll of tubing at	
Three well volume (mL)	

29.20
− 21.66
7.54
3.27

2,000 mL volume poured into bucket:

Time	13:09	13:14	13:19	13:25	13:31	13:36	13:41		
Cummulative Volume (mL)	2400	4800	6800	8800	10,900	12,900	15,000		

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-3

DATE: 9/15/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Partly Cloudy ~84°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 25.00 FT.

INITIAL WATER LEVEL (BTOC): 19.93 FT. | TIME: 13:22 | BTOC WELL SCREEN INTERVAL: 17.83 FT. to 27.83 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 24.5 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 27.32 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

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.)
13:35	0	27.28	4.97	188	0.054	0.0	4.16	20.00	
13:40	2000	25.17	4.84	209	0.060	0.0	3.59	20.00	
13:45	4000	23.36	4.97	206	0.062	0.0	3.64	20.00	
13:50	6000	23.00	4.94	208	0.062	0.0	3.60	20.00	
13:55	8000	19.91	4.94	209	0.069	0.0	4.18	20.00	
14:00	9400	20.12	4.64	220	0.067	0.0	4.16	19.97	
14:05	11000	20.16	4.80	219	0.066	0.0	4.13	19.97	
14:10	12220	20.07	4.91	212	0.068	0.0	4.11	19.97	
14:15	13580	20.05	4.70	226	0.067	0.0	4.10	19.97	
14:20	14580	20.04	4.86	217	0.066	0.0	4.09	19.97	
14:25	15720	20.04	4.71	227	0.068	0.0	4.07	19.97	
14:30	16960	20.00	4.79	223	0.067	0.0	4.06	19.97	
14:35	18100	20.00	4.78	223	0.067	0.0	4.04	19.97	

COMMENTS:

SAMPLE COLLECTION TIME: 14:37

PREPARED BY: Amelia 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.)	28.0
Initial tubing depth (ft.) BTOC	24.0
Final tubing depth (ft.) BTOC	24.0
Initial pump speed	10.10
Time pump speed was initialized	13:34
Pump speed at flow into cylinder	10.10
Started new roll of tubing at	—
Three well volume (mL)	—

13:57 changed speed to 6.01

2,000 mL volume poured into bucket:

Time	13:40	13:45	13:50	13:55	14:02	14:09	14:17	14:26	14:35
Cummulative Volume (mL)	~~2000~~ 2000 ody	4000	6000	8000	10000	12000	14000	16000	18100

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

PAGE 1 OF 1

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-4U

DATE: 9-15-15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Partly Cloudy, Windy, 84°F

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): 26.26 FT. | TIME: 3:00 | BTOC WELL SCREEN INTERVAL: 18.05 FT. to 33.05 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 30.33 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 32.38 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

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA | 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.)
3:12	0	22.16	3.94	274	0.167	0.0	4.89	26.27	
3:17	800	21.65	3.90	282	0.168	0.0	4.27	26.27	pH = 3.80
3:22	1600	21.45	3.88	280	0.169	0.0	4.11	26.27	
3:27	2400	21.39	3.91	279	0.169	0.0	4.04	26.27	
3:32	3200	21.52	3.91	279	0.168	0.0	3.96	26.27	
3:37	3920	21.52	3.91	280	0.169	0.0	3.93	26.27	

COMMENTS:

SAMPLE COLLECTION TIME: 15:37

PREPARED BY: SHelm

* 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	29
Final tubing depth (ft.) BTOC	29
Initial pump speed	5.04
Time pump speed was initialized	3:06
Pump speed at flow into cylinder	5.04
Started new roll of tubing at	
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	3:25								
Cummulative Volume (mL)	2000								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-5A

DATE: 9/17/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny ~75°F little to no wind

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

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: adj ~~16.58~~ FT. to adj ~~26.58~~ FT.

INITIAL WATER LEVEL (BTOC): 19.75 FT. | TIME: 15:40 | BTOC WELL SCREEN INTERVAL: adj ~~16.30~~ FT. to adj ~~26.20~~ FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 22.52 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 22.82 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

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.)
15:51	200	29.04	4.14	267	0.589	14.2	2.11	19.54	
15:56	1360	27.19	3.99	273	0.678	0.0	1.19	19.54	
16:01	2600	26.65	3.96	273	0.685	0.0	1.00	19.54	
16:06	3820	26.46	3.96	273	0.686	0.0	0.98	19.54	
16:11	5180	26.51	3.97	272	0.686	0.0	0.89	19.54	
16:16	6380	26.83	3.96	272	0.683	0.0	1.15	19.54	
16:21	7720	26.76	3.97	271	0.682	0.0	1.06	19.54	
16:26	9100	26.57	3.95	271	0.684	0.0	0.95	19.54	
16:31	10050	26.67	3.96	271	0.680	0.0	0.91	19.54	

COMMENTS:

SAMPLE COLLECTION TIME: 16:33

PREPARED BY: Amelia 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	7.01
Time pump speed was initialized	15:48
Pump speed at flow into cylinder	7.01
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	15:58	16:08	16:14	16:22	16:31				
Cummulative Volume (mL)	2000	4000	6000	8000	10000				

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-5D

DATE: 9/17/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny ~72°F little to 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): 18.88 FT. | TIME: 16:57 | BTOC WELL SCREEN INTERVAL: 14.80 FT. to 24.80 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 24.68 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 24.88 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

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.)
17:04	0	29.50	3.96	267	1.05	0.0	1.44	19.03	
17:09	1580	27.39	3.89	272	0.987	0.0	1.91	19.05	
17:14	2780	27.12	3.85	273	0.951	0.0	1.71	19.05	
17:19	4050	26.88	3.86	272	0.942	0.0	1.51	19.05	
17:24	5580	26.94	3.85	272	0.933	0.0	1.27	19.05	
17:29	6800	26.95	3.88	269	0.950	0.0	1.22	19.05	
17:34	13400	26.48	3.84	270	0.965	0.0	0.37	19.05	

COMMENTS:

SAMPLE COLLECTION TIME: 17:56

PREPARED BY: Amelia 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.)	23.8
Initial tubing depth (ft.) BTOC	21.8
Final tubing depth (ft.) BTOC	21.8
Initial pump speed	7.05
Time pump speed was initialized	17:01
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: 4 Teady

Time	17:11	17:19	17:26	17:33	17:40	17:52			
Cummulative Volume (mL)	2000	4000	6000	8000	10000	12000			

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-6

DATE: 9/16/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: cloudy ~75°F little to no 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): 24.95 FT. | TIME: 8:19 | BTOC WELL SCREEN INTERVAL: 46.80 FT. to 51.80 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 51.61 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 51.81 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

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ Test America cody | 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.)
9:48	0	22.82	5.90	17	1.33	29.7	2.03	25.75	
9:53	1000	22.04	5.39	38	1.38	10.3	1.29	26.17	
9:58	2000	21.92	5.64	26	1.51	2.5	0.88	26.35	
10:03	2900	21.90	5.68	24	1.62	1.8	0.70	26.43	
10:08	3920	21.89	5.62	28	1.66	2.1	0.60	26.43	
10:13	4880	21.90	5.58	31	1.68	0.8	0.55	26.43	
10:18	5920	21.90	5.51	36	1.69	0.0	0.52	26.43	
10:23	6940	21.90	5.46	41	1.70	0.0	0.49	26.43	
10:28	7940	21.93	5.41	46	1.71	0.0	0.47	26.43	

COMMENTS:

SAMPLE COLLECTION TIME: 10:30

PREPARED BY: Amelia 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.)	51.5
Initial tubing depth (ft.) BTOC	49.5
Final tubing depth (ft.) BTOC	49.5
Initial pump speed	7.12
Time pump speed was initialized	9:46
Pump speed at flow into cylinder	7.12
Started new roll of tubing at	
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	9:58	10:08	10:18	10:28					
Cummulative Volume (mL)	2000	4000	6000	8000					

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-7

DATE: 9/16/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: cloudy ~75°F little to no wind

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

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

INITIAL WATER LEVEL (BTOC): 20.68 FT. | TIME: 14:31 | BTOC WELL SCREEN INTERVAL: adg ~~14.50~~ FT. to adg ~~25.50~~ FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 21.75 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 22.25 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

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ Test America | 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.)
adg 14:54	0	28.83	4.88	142	0.370	162	1.50	20.71	
14:59	1580	25.90	4.28	222	0.422	2.3	0.65	20.72	
15:04	2760	25.29	4.10	232	0.456	0.0	0.70	20.72	
15:09	4000	25.18	4.02	237	0.463	0.0	0.83	20.72	
15:14	5200	25.01	4.00	239	0.471	0.0	0.88	20.72	
15:19	6620	25.04	3.99	240	0.477	0.0	0.98	20.72	

COMMENTS:

SAMPLE COLLECTION TIME: 15:21

PREPARED BY: amelia 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~~ adg 21.20
Initial tubing depth (ft.) BTOC	~~23~~
Final tubing depth (ft.) BTOC	21.20
Initial pump speed	~~7.0~~ 7.07 adg
Time pump speed was initialized	14:49
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	15:01	15:09	15:18						
Cummulative Volume (mL)	2000	4000	6400						

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-8

DATE: 9/16/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: cloudy ~74°F little to 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 23.00 FT.

INITIAL WATER LEVEL (BTOC): 16.36 FT. | TIME: 16:34 | BTOC WELL SCREEN INTERVAL: 11.70 FT. to 22.70 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 21.66 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 21.96 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

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

TIME	VOLUME PURGED (mL)	TEMP (°C)	pH	ORP (mV)	SPEC. COND. (mS/cm)	TURBIDITY (NTU) oda	DISS. OXYGEN. (mg/L)	DTW (FT)	REMARKS (COLOR, ODOR, ETC.)
16:50	0	27.35	4.35	190	0.804	12.7	1.70	16.38	
16:55	1580	26.81	3.90	234	0.633	0.1	1.26	16.38	
17:00	3200	26.91	3.94	238	0.626	0.0	1.54	16.38	
17:05	4780	26.98	3.93	242	0.624	0.0	1.72	16.38	
17:10	6350	27.03	3.90	246	0.627	0.0	1.75	16.38	
17:15	7980	27.08	3.91	248	0.642	0.0	1.85	16.38	

COMMENTS:

SAMPLE COLLECTION TIME: 17:17

PREPARED BY: Amelia 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.)	21.5
Initial tubing depth (ft.) BTOC	19.5
Final tubing depth (ft.) BTOC	19.5
Initial pump speed	8.09
Time pump speed was initialized	16:48
Pump speed at flow into cylinder	8.09
Started new roll of tubing at	
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	16:56	17:03	17:09						
Cummulative Volume (mL)	2000	4000	6000						

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-10

DATE: 9/17/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: cloudy ~70°F little to no wind

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): 22.32 FT. | TIME: 9:35 | BTOC WELL SCREEN INTERVAL: 20.10 FT. to 30.10 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 30.85 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 30.75 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

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.)
9:50	0	23.52	4.02	273	0.699	0.0	2.31	22.54	
9:55	680	23.35	3.85	286	0.662	0.0	1.82	22.62	
10:00	1420	23.31	3.85	288	0.676	0.0	1.57	22.68	
10:05	2200	23.24	3.86	289	0.708	0.0	1.46	22.72	
10:10	2960	23.21	3.85	289	0.725	0.0	1.34	22.74	
10:15	3700	23.32	3.83	290	0.729	0.0	1.25	22.76	
10:20	4400	23.33	3.82	290	0.719	0.0	1.16	22.79	
10:25	5180	23.42	3.83	290	0.708	0.0	1.14	22.81	

COMMENTS:

SAMPLE COLLECTION TIME: 10:27

PREPARED BY: Amelia 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.)	28.5
Initial tubing depth (ft.) BTOC	26.5
Final tubing depth (ft.) BTOC	26.5
Initial pump speed	6.02
Time pump speed was initialized	9:46
Pump speed at flow into cylinder	6.02
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	10:05	10:17							
Cummulative Volume (mL)	2000	4000							

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-11

DATE: 9-14-15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Clear Normal 79°F

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): 23.49 FT. | TIME: 14:37 | BTOC WELL SCREEN INTERVAL: 16.70 FT. to 26.70 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 27.20 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 27.5 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

LABORATORY PERFORMING ANALYSIS: ~~Kenco~~ TAL | 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.)
14:54	0	26.43	4.05	240	0.153	22.4	4.63	23.03	S.C. = 0.153
14:59	700	25.47	3.96	299	0.155	42.5	4.07	23.62	
15:04	1520	24.61	3.95	303	0.154	20.7	4.22	23.62	
15:08	2100	24.26	3.93	305	0.155	0.0	4.52	23.62	
15:13	3080	21.69	3.91	307	0.158	0.0	4.65	23.70	
15:18	4050	21.44	3.94	307	0.156	35.4	4.57	23.71	
15:23	5200	21.47	3.92	304	0.155	0.0	4.73	23.71	
15:28	6390	21.22	3.92	311	0.155	0.0	4.81	23.71	

COMMENTS: | SAMPLE COLLECTION TIME: 15:30 | PREPARED BY: [illegible]

* 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.)	27.5
Initial tubing depth (ft.) BTOC	25.5
Final tubing depth (ft.) BTOC	25.5
Initial pump speed	5.22
Time pump speed was initialized	14:50
Pump speed at flow into cylinder	5.22
Started new roll of tubing at	
Three well volume (mL)	

Increase to 7.02 at 15:10

2,000 mL volume poured into bucket:

Time	15:07	15:17	15:26						
Cummulative Volume (mL)	2000	4000	6000						

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-12

DATE: 9/16/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny ~82°F little to 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): 17.23 FT. | TIME: 15:46 | BTOC WELL SCREEN INTERVAL: 11.75 FT. to 21.75 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 22.28 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 22.53 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

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.)
15:53	0	28.25	5.73	158	0.938	0.0	2.20	17.56	
15:58	1200	25.25	6.71	108	0.951	0.0	0.87	~~17.57~~	17.57 odg
16:03	2620	24.73	6.85	89	0.938	0.0	0.62	17.57	
16:08	4000	24.59	6.89	79	0.920	0.0	0.52	17.57	
16:13	5240	24.58	6.92	72	0.882	0.0	0.48	17.57	
16:18	6800	24.53	6.93	68	0.878	0.0	0.45	17.57	
16:23	8300	24.46	6.93	65	0.894	0.0	0.44	17.57	

COMMENTS:

SAMPLE COLLECTION TIME: 16:25

PREPARED BY: Amelia 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.)	22
Initial tubing depth (ft.) BTOC	20
Final tubing depth (ft.) BTOC	20
Initial pump speed	7.47
Time pump speed was initialized	15:51
Pump speed at flow into cylinder	7.47
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	16:00	16:08	16:16						
Cummulative Volume (mL)	2000	4000	6000						

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-13

DATE: 9/16/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Cloudy ~75°F little to 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): 16.84 FT. | TIME: 10:58 | BTOC WELL SCREEN INTERVAL: 11.70 FT. to 21.70 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 21.73 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 22.03 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

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.)
11:06	0	23.50	5.50	81	0.463	0.0	2.47	16.85	
11:11	1240	21.23	5.09	107	0.481	0.0	1.62	16.85	
11:16	2520	20.85	5.18	104	0.480	0.0	1.40	16.85	
11:21	3760	20.72	5.17	104	0.479	0.0	1.34	16.85	
11:26	4980	20.65	5.16	106	0.479	0.0	1.31	16.85	
11:31	6200	20.62	5.15	109	0.478	0.0	1.28	16.85	

COMMENTS:

SAMPLE COLLECTION TIME: 11:33

PREPARED BY: Amelia 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.)	21.20
Initial tubing depth (ft.) BTOC	19.20
Final tubing depth (ft.) BTOC	19.20
Initial pump speed	7.15
Time pump speed was initialized	11:04
Pump speed at flow into cylinder	7.15
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	11:14	11:24	11:30						
Cummulative Volume (mL)	2000	4000	6000						

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-14

DATE: 9/16/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: cloudy ~75°F little to 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): 24.78 FT. | TIME: 8:18 | BTOC WELL SCREEN INTERVAL: 66.85 FT. to 71.85 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 71.35 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 71.5 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

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.)
8:35	0	21.34	8.12	147	0.335	50.1	2.49	~~25.88~~	DTW=25.80
8:41	1400	21.61	9.48	118	0.333	31.0	1.33	25.91	
8:46	2380	21.63	9.36	112	0.313	30.9	1.05	26.04	
8:51	3360	21.66	8.96	115	0.291	24.5	0.90	26.10	
8:56	4400	21.72	8.44	85	0.277	17.0	0.75	26.12	
9:01	5460	21.75	7.80	-103	0.268	10.7	0.72	26.11	
9:06	6480	21.82	7.53	-124	0.266	8.6	0.67	26.12	
9:11	7500	21.87	7.57	-141	0.264	7.4	0.64	26.12	
9:16	8440	21.92	7.41	-138	0.260	3.2	0.60	26.12	
9:21	9520	21.96	7.41	-142	0.256	1.1	0.60	26.12	
9:26	10400	22.01	7.35	-139	0.252	0.0	0.60	26.12	

COMMENTS:

SAMPLE COLLECTION TIME: 9:28

PREPARED BY: Amelia 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.)	71
Initial tubing depth (ft.) BTOC	69
Final tubing depth (ft.) BTOC	69
Initial pump speed	7.09
Time pump speed was initialized	8:32
Pump speed at flow into cylinder	7.09
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	8:44	8:54	9:04	9:14	9:24				
Cummulative Volume (mL)	2000	4000	6000	8000	10000				

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-15

DATE: 9-15-15	PROJECT NAME: GPA Bainbridge	PROJECT NO: 400007 - 4.5
WEATHER CONDITIONS: Cloudy 82°F low 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): 20.83 FT. TIME: 11:00	BTOC WELL SCREEN INTERVAL: 13.00 FT. to 23.00 FT.	
MEASURED TOTAL WELL DEPTH (**BGS**): 21.51 FT.	MEASURED TOTAL WELL DEPTH (BTOC): 21.51 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		
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.)
11:09	0	23.73	4.99	168	3.43	0.0	1.15	21.11	
11:14	840	23.64	4.88	188	3.54	0.0	0.75	20.87	
11:19	1520	23.69	4.45	203	3.57	0.0	0.65	20.93	
11:25	2400	23.56	4.20	219	3.50	0.0	0.55	20.93	
11:31	3380	23.80	4.11	231	3.48	0.0	0.49	20.93	
11:36	4000	23.88	4.11	233	3.44	0.0	0.46	20.93	
11:41	4780	23.92	4.09	236	3.44	0.0	0.43	20.93	

COMMENTS:

SAMPLE COLLECTION TIME: 11:43

PREPARED BY: Amelia 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.

11:11 lowered tubing ~0.20 ft into well as water level was dropping

11:12 changed pump speed to 3.95

11:20 changed pump speed to 4.40

Length of tubing cut (ft.)	23.00
Initial tubing depth (ft.) BTOC	21.15
Final tubing depth (ft.) BTOC	21.35
Initial pump speed	5.02
Time pump speed was initialized	11:05
Pump speed at flow into cylinder	5.02
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	11:22	11:36							
Cummulative Volume (mL)	2000	4000							

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-16

DATE: 9/16/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: cloudy ~75°F little to no 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): 19.65 FT. | TIME: 13:15 | BTOC WELL SCREEN INTERVAL: 13.80 FT. to 23.80 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 23.23 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 23.83 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

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.)
13:24	0	24.15	5.09	154	0.026	11.0	5.79	19.69	
13:29	1220	23.70	4.66	186	0.026	0.0	4.78	19.69	
13:34	2620	23.66	4.63	191	0.026	0.0	4.42	19.69	
13:39	4000	23.73	4.64	190	0.025	0.0	4.20	19.69	
13:44	5400	23.86	4.58	197	0.025	0.0	4.08	19.69	
13:49	6800	23.90	4.61	194	0.025	0.0	4.10	19.69	
ody 13:54	8000	23.90	4.56	197	0.025	0.0	4.21	19.69	
ody 13:59	9440	24.00	4.61	196	0.025	0.0	4.29	19.69	
14:04	10660	23.92	4.59	199	0.025	0.0	4.43	19.69	

COMMENTS:

SAMPLE COLLECTION TIME: 14:06

PREPARED BY: Amelia 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	7.55
Time pump speed was initialized	13:22
Pump speed at flow into cylinder	7.55
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	13:33	13:39	13:47	13:53	14:01				
Cummulative Volume (mL)	2400	4000	6000	8000	10000				

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-17

DATE: 9/14/15	PROJECT NAME: GPA Bainbridge	PROJECT NO: 400007 - 4.5
WEATHER CONDITIONS: Sunny ~68°F		
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.	
adj INITIAL WATER LEVEL (BTOC): ~~16.16~~ 16.42 FT. TIME: 17:16	BTOC WELL SCREEN INTERVAL: 49.55 FT. to 59.55 FT.	
MEASURED TOTAL WELL DEPTH (**BGS**): 60.00 FT.	MEASURED TOTAL WELL DEPTH (BTOC): 60.45 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		
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.)
17:30	0	24.93	6.40	183	0.176	33.20	7.00	16.44	
17:35	1800	22.74	6.98	154	0.363	60.10	1.35	16.43	
17:40	3400	22.34	7.08	152	0.421	103	0.94	16.44	
17:45	5800	22.28	7.12	145	0.432	523	0.80	16.44	
17:50	6920	22.04	7.14	136	0.440	395	0.73	16.44	
17:55	8300	21.87	7.15	131	0.444	270	0.79	16.44	
18:00	9800	21.80	7.14	128	0.447	185	0.76	16.44	
18:05	11400	21.78	7.17	124	0.447	128	0.60	16.44	
18:10	13050	21.69	7.17	120	0.454	88.6	0.64	16.44	
18:17	15320	21.67	7.17	117	0.455	39.9	0.62	16.44	
18:22	16740	21.56	7.17	114	0.457	33.3	0.61	16.44	
18:27	18,400	21.57	7.19	111	0.458	26.5	0.60	16.44	
18:32	20,100	22.22	7.17	109	0.451	17.3	0.51	16.44	
18:37	21,520	21.63	7.20	105	0.460	17.9	0.55	16.44	

COMMENTS:

SAMPLE COLLECTION TIME: 18:39

PREPARED BY: amelia 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	9.14
Time pump speed was initialized	17:28
Pump speed at flow into cylinder	9.14
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	17:36	17:43	17:49	17:55	18:01	18:06	18:12	18:20	18:26	18:33
Cummulative Volume (mL)	2300	4300	6300	8300	10300	12300	14300	16,300	18,300	20,300

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-18

DATE: 9-15-15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: 81°F Light Wind Mostly cloudy

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): 18.18 FT. | TIME: 9:41 | BTOC WELL SCREEN INTERVAL: 21.60 FT. to 31.60 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 32.43 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 32.83 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

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TASK | 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.)
9:44	0	24.20	5.64	232	1.49	29.0	1.71	18.20	
9:54	1600	24.57	6.40	186	1.51	26.3	0.82	18.20	
9:59	3400	24.57	6.43	174	1.50	25.8	0.62	18.20	
10:04	5000	24.59	6.50	165	1.50	26.7	0.55	18.20	
10:09	6800 SM	24.62	6.50	157	1.49	24.8	0.51	18.20	
10:14	~~8400~~ 8700	24.64	6.47	153	1.49	32.2	0.47	18.20	V = 8700 mL
10:19	10200	24.61	6.49	146	1.49	26.9	0.46	18.20	
10:24	11,900	24.59	6.49	142	1.49	43.4	0.41	18.20	
10:29	13380	24.59	6.51	137	1.48	23.2	0.43	18.20	
10:34	14920	24.44	6.51	133	1.49	20.5	0.39	18.20	
10:39	16700	24.44	6.45	129	1.48	19.5	0.37	18.20	

1700
1400
1100
590
1420

COMMENTS:

SAMPLE COLLECTION TIME: 10:41

PREPARED BY: S Helms

* 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	9.11
Time pump speed was initialized	9:48
Pump speed at flow into cylinder	9.11
Started new roll of tubing at	
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	9:55	10:02	10:09	10:15	10:21	10:27	10:33		
Cummulative Volume (mL)	2000	4000	6800	8800	10,800	12,800	14800		

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-19

DATE: 9-15-15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Partly cloudy Large wind 750 F

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): 19.30 FT. | TIME: 8:39 | BTOC WELL SCREEN INTERVAL: 21.65 FT. to 31.65 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 32.08 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 32.43 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

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA SH | 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.)
	8:47	0	22.79	4.63	236	0.949	47	1.99	19.32	
	8:52	1820	23.25	3.68	306	0.942	25.5	1.01	19.32	
1020	8:57	3400	23.29	3.66	311	0.943	21.0	0.82	19.32	
	9:02	5220	23.34	3.66	315	0.941	12.5	0.71	19.32	
	9:07	6900	23.39	3.66	317	0.939	10.0	0.66	19.32	
	9:12	8600	23.38	3.65	319	0.938	8.1	0.61	19.32	
1740	9:17	10340	23.40	3.64	322	0.936	5.30	0.60	19.32	

COMMENTS:

SAMPLE COLLECTION TIME: 9:20

PREPARED BY: [signature]

* 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	8.98
Time pump speed was initialized	8:45
Pump speed at flow into cylinder	8.98
Started new roll of tubing at	
Three well volume (mL)	

+2

Duplicate Collected

2,000 mL volume poured into bucket:

Time	8:53	8:50	9:08	9:12					
Cummulative Volume (mL)	2000	4200	6600	8600					

Additional remarks: Water in vault ~ 1" above TOC. Bailer 10 ft" below TOC

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-20

DATE: 9/17/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: cloudy ~70°F little to no 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): 19.10 FT. | TIME: 13:13 | BTOC WELL SCREEN INTERVAL: 21.75 FT. to 31.75 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 32.05 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 32.8 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

LABORATORY PERFORMING ANALYSIS: ~~Xenon~~ Testamerica adg | 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.)
13:24	0	24.33	4.13	271	0.252	0.0	6.44	19.11	
13:29	1140	23.51	4.12	247	0.248	0.0	5.74	19.12	
13:34	2050	23.54	4.13	275	0.260	0.0	5.41	19.12	
13:39	3120	23.50	4.15	273	0.269	0.0	5.16	19.12	
13:44	4000	23.48	4.14	272	0.273	0.0	5.10	19.12	
13:49	5000	23.53	4.14	273	0.277	0.0	5.00	19.12	
13:54	6000	23.38	4.13	273	0.282	0.0	4.99	19.12	

COMMENTS:

SAMPLE COLLECTION TIME: 13:56

PREPARED BY: Amelia 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	6.60
Time pump speed was initialized	13:20
Pump speed at flow into cylinder	6.60
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	13:33	13:44	13:54						
Cummulative Volume (mL)	2000	4000	6000						

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-21

DATE: 9/17/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: cloudy ~70°F little to no 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): 20.11 FT. | TIME: 10:55 | BTOC WELL SCREEN INTERVAL: 21.93 FT. to 31.93 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 31.43 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 31.5 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

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.)
11:04	0	24.25	7.43	105	0.252	3.8	5.31	20.12	
11:09	1100	22.97	4.35	234	0.262	7.9	5.11	20.12	
11:14	2200	22.94	4.33	249	0.263	0.1	4.91	20.12	
11:19	3300	22.78	4.33	249	0.264	0.0	4.79	20.12	
11:24	4000	22.74	4.32	252	0.266	0.0	4.72	20.12	
11:29	5000	22.94	4.30	254	0.265	0.0	4.75	20.12	

COMMENTS:

SAMPLE COLLECTION TIME: 11:31

PREPARED BY: Amelia 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	27
Final tubing depth (ft.) BTOC	27
Initial pump speed	6.06
Time pump speed was initialized	11:02
Pump speed at flow into cylinder	6.06
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	11:14	11:25							
Cummulative Volume (mL)	2200	4000 ody							

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-22

DATE: 9/17/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny partly cloudy ~72°F little to no wind

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): 21.38 FT. | TIME: 14:20 | BTOC WELL SCREEN INTERVAL: 23.80 FT. to 33.80 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 33.34 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 33.54 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

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.)
14:30	0	26.94	3.83	287	0.432	0.0	3.56	21.48	
14:35	1400	26.37	3.81	290	0.434	0.0	2.77	21.49	
14:40	2920	25.49	3.79	290	0.444	13.4	2.66	21.50	
14:45	4250	24.90	3.80	289	0.454	15.6	2.73	21.50	
14:50	5760	24.70	3.75	290	0.460	10.0	2.77	21.50	
14:55	7100	24.90	3.79	289	0.461	4.9	2.69	21.50	
15:00	8500	25.38	3.79	288	0.460	4.7	2.57	21.50	
15:05	10000	25.03	3.79	288	0.466	3.9	2.62	21.50	
15:10	11300	24.91	3.79	288	0.471	2.7	2.61	21.50	
15:15	12560	24.47	3.79	288	0.481	3.5	2.71	21.50	

COMMENTS:

SAMPLE COLLECTION TIME: 15:17

PREPARED BY: Amelia 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	9.02
Time pump speed was initialized	14:29
Pump speed at flow into cylinder	9.02
Started new roll of tubing at	—
Three well volume (mL)	—

took Matrix Spike sample

2,000 mL volume poured into bucket:

Time	14:37	14:44	14:51	14:58	15:05	15:13			
Cummulative Volume (mL)	2000	4000	6000	8000	10000	12000			

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-23

DATE: 9/17/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: cloudy ~ 68°F little to no wind

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

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 13.83 FT. to 23.83 FT.

INITIAL WATER LEVEL (BTOC): 16.63 FT. | TIME: 8:16 | BTOC WELL SCREEN INTERVAL: 13.83 FT. to 23.83 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 24.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 24 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

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.)
8:41	0	23.75	4.94	250	0.958	30.1	1.98	16.63	
8:46	1820	24.50	5.17	235	0.957	43.3	1.09	16.63	
8:51	3400	24.75	5.23	229	0.947	25.1	0.85	16.63	
8:56	4920	24.81	5.23	226	0.942	6.6	0.72	16.63	
9:01	6400	24.85	5.28	222	0.936	3.6	0.63	16.63	
9:06	8000	24.87	5.33	217	0.930	0.0	0.57	16.63	
9:11	9620	24.95	5.33	216	0.925	0.0	0.53	16.63	

adj 3400

COMMENTS:

SAMPLE COLLECTION TIME: 9:13

PREPARED BY: Amelia 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.)	22
Initial tubing depth (ft.) BTOC	20
Final tubing depth (ft.) BTOC	20
Initial pump speed	9.02
Time pump speed was initialized	8:38
Pump speed at flow into cylinder	9.02
Started new roll of tubing at	[redacted] yes
Three well volume (mL)	[redacted]

2,000 mL volume poured into bucket:

Time	8:47	8:53	9:01	9:06					
Cummulative Volume (mL)	2000	4000	6000	8000					

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

PAGE 1 OF 1

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-24

DATE: 9/14/15 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny little to no wind. ~68°F

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

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 12.11 FT. to 22.11 FT.

INITIAL WATER LEVEL (BTOC): 16.21 FT. | TIME: 16:04 | BTOC WELL SCREEN INTERVAL: 12.29 FT. to 22.29 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 22.63 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 22.81 FT. | FLUSH-TO-GRADE 0.18 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 ~~8082~~

LABORATORY PERFORMING ANALYSIS: ~~Katahdin~~ Test America | 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.)
16:16	0	22.37	6.10	200	0.277	0.0	4.25	16.22	
16:21	1300	20.23	6.39	189	0.296	0.0	3.18	16.22	
16:26	2600	19.70	6.37	189	0.280	0.0	2.97	16.22	
16:31	4500	19.67	6.32	187	0.276	0.0	2.61	16.22	
16:36	6200	19.65	6.23	196	0.272	0.0	2.63	16.22	
16:41	8050	19.62	6.26	193	0.266	0.0	2.58	16.22	
16:46	9620	19.62	6.32	188	0.262	0.0	2.57	16.22	
16:51	11500	19.62	6.30	188	0.260	0.0	2.56	16.22	

COMMENTS: | SAMPLE COLLECTION TIME: 16:53 | PREPARED BY: Amelia 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.)	21
Initial tubing depth (ft.) BTOC	19.5
Final tubing depth (ft.) BTOC	19.5
Initial pump speed	7.17
Time pump speed was initialized	16:13
Pump speed at flow into cylinder	7.17
Started new roll of tubing at	~~~~
Three well volume (mL)	~~~~

16:17 pump speed changed to 9.35

2,000 mL volume poured into bucket:

Time	16:25	16:31	16:36	16:43	16:48				
Cummulative Volume (mL)	2500	4500	6500	8500	10500				

Additional remarks:

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

SIXTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT B
SEPTEMBER 2015 GROUNDWATER ANALYTICAL RESULTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-116914-1
Client Project/Site: GPA Bainbridge

For:
Environmental International Corporation
161 Kimball Bridge Road
Suite 100
Alpharetta, Georgia 30009

Attn: Amelia Grant

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9/28/2015 5:10:27 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

Method Summary

Client: Environmental International Corporation
Project/Site: GPA Bainbridge

TestAmerica Job ID: 680-116914-1

Method	Method Description	Protocol	Laboratory
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Environmental International Corporation
Project/Site: GPA Bainbridge

TestAmerica Job ID: 680-116914-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-116914-1	MW-1	Water	09/15/15 16:47	09/19/15 10:45
680-116914-2	MW-1A	Water	09/15/15 17:40	09/19/15 10:45
680-116914-3	MW-2	Water	09/14/15 13:45	09/19/15 10:45
680-116914-4	MW-3	Water	09/15/15 14:37	09/19/15 10:45
680-116914-5	MW-4U	Water	09/15/15 15:37	09/19/15 10:45
680-116914-6	MW-5A	Water	09/17/15 16:33	09/19/15 10:45
680-116914-7	MW-5D	Water	09/17/15 17:56	09/19/15 10:45
680-116914-8	MW-6	Water	09/16/15 10:30	09/19/15 10:45
680-116914-9	MW-7	Water	09/16/15 15:21	09/19/15 10:45
680-116914-10	MW-8	Water	09/16/15 17:17	09/19/15 10:45
680-116914-11	MW-10	Water	09/17/15 10:27	09/19/15 10:45
680-116914-12	MW-11	Water	09/14/15 15:30	09/19/15 10:45
680-116914-13	MW-12	Water	09/16/15 16:25	09/19/15 10:45
680-116914-14	MW-13	Water	09/16/15 11:33	09/19/15 10:45
680-116914-15	MW-14	Water	09/16/15 09:28	09/19/15 10:45
680-116914-16	MW-15	Water	09/15/15 11:43	09/19/15 10:45
680-116914-17	MW-16	Water	09/16/15 14:06	09/19/15 10:45
680-116914-18	MW-17	Water	09/14/15 18:39	09/19/15 10:45
680-116914-19	MW-18	Water	09/15/15 10:41	09/19/15 10:45
680-116914-20	MW-19	Water	09/15/15 09:20	09/19/15 10:45
680-116914-21	MW-20	Water	09/17/15 13:56	09/19/15 10:45
680-116914-22	MW-21	Water	09/17/15 11:31	09/19/15 10:45
680-116914-23	MW-22	Water	09/17/15 15:17	09/19/15 10:45
680-116914-24	MW-23	Water	09/17/15 09:13	09/19/15 10:45
680-116914-25	MW-24	Water	09/14/15 16:53	09/19/15 10:45
680-116914-26	MW-10 Duplicate	Water	09/17/15 10:27	09/19/15 10:45
680-116914-27	Equipment Blank	Water	09/17/15 17:32	09/19/15 10:45

Job ID: 680-116914-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Environmental International Corporation

Project: GPA Bainbridge

Report Number: 680-116914-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 09/19/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt were 2.2º C, 2.4º C and 2.6º C. 2.4 C.

PESTICIDES AND PCBS

Samples MW-1 (680-116914-1), MW-1A (680-116914-2), MW-2 (680-116914-3), MW-3 (680-116914-4), MW-4U (680-116914-5), MW-5A (680-116914-6), MW-5D (680-116914-7), MW-6 (680-116914-8), MW-7 (680-116914-9), MW-8 (680-116914-10), MW-10 (680-116914-11), MW-11 (680-116914-12), MW-12 (680-116914-13), MW-13 (680-116914-14), MW-14 (680-116914-15), MW-15 (680-116914-16), MW-16 (680-116914-17), MW-17 (680-116914-18), MW-18 (680-116914-19), MW-19 (680-116914-20), MW-20 (680-116914-21), MW-21 (680-116914-22), MW-22 (680-116914-23), MW-23 (680-116914-24), MW-24 (680-116914-25), MW-10 Duplicate (680-116914-26) and Equipment Blank (680-116914-27) were analyzed for Pesticides and PCBs in accordance with EPA SW-846 Method 8081B_8082A. The samples were prepared on 09/21/2015 and 09/22/2015 and analyzed on 09/23/2015, 09/24/2015 and 09/25/2015.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

Tetrachloro-m-xylene failed the surrogate recovery criteria low for MW-11 (680-116914-12). Tetrachloro-m-xylene failed the surrogate recovery criteria low for MW-17 (680-116914-18). Tetrachloro-m-xylene failed the surrogate recovery criteria low for MW-18 (680-116914-19). Tetrachloro-m-xylene failed the surrogate recovery criteria low for MW-1A (680-116914-2). Tetrachloro-m-xylene failed the surrogate recovery criteria low for MW-19 (680-116914-20). Tetrachloro-m-xylene failed the surrogate recovery criteria low for MW-21 (680-116914-22). Tetrachloro-m-xylene failed the surrogate recovery criteria low for MW-5D (680-116914-7).
These results have been reported and qualified.

Heptachlor epoxide failed the recovery criteria high for the MS of sample MW-19MS (680-116914-20) in batch 680-402414.

Dieldrin exceeded the RPD limit for the MSD of sample MW-19MSD (680-116914-20) in batch 680-402414.

alpha-BHC, gamma-BHC (Lindane), delta-BHC and beta-BHC failed the recovery criteria low for the MS of sample MW-22MS (680-116914-23) in batch 680-402715. Several analytes failed the recovery criteria high.

alpha-BHC, gamma-BHC (Lindane), delta-BHC and beta-BHC failed the recovery criteria low for the MSD of sample MW-22MSD (680-116914-23) in batch 680-402715. Several analytes failed the recovery criteria high.

The presence of the '4' qualifier indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

Job ID: 680-116914-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Samples MW-5A (680-116914-6)[25X], MW-5A (680-116914-6)[5X], MW-5D (680-116914-7)[10X], MW-5D (680-116914-7)[40X], MW-6 (680-116914-8)[4X], MW-8 (680-116914-10)[5X], MW-10 (680-116914-11)[20X], MW-13 (680-116914-14)[10X], MW-20 (680-116914-21)[4X], MW-20 (680-116914-21)[40X], MW-21 (680-116914-22)[5X], MW-22 (680-116914-23)[10X], MW-22 (680-116914-23)[100X], MW-23 (680-116914-24)[10X] and MW-10 Duplicate (680-116914-26)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample ID: MW-1

Date Collected: 09/15/15 16:47
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-1
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0062		0.049	0.0062	ug/L		09/21/15 15:37	09/23/15 14:35	1
4,4'-DDE	<0.0050		0.049	0.0050	ug/L		09/21/15 15:37	09/23/15 14:35	1
4,4'-DDT	<0.0069		0.049	0.0069	ug/L		09/21/15 15:37	09/23/15 14:35	1
Aldrin	<0.0071		0.049	0.0071	ug/L		09/21/15 15:37	09/23/15 14:35	1
alpha-BHC	<0.0034		0.049	0.0034	ug/L		09/21/15 15:37	09/23/15 14:35	1
beta-BHC	<0.0090		0.049	0.0090	ug/L		09/21/15 15:37	09/23/15 14:35	1
Chlordane (technical)	<0.094		0.49	0.094	ug/L		09/21/15 15:37	09/23/15 14:35	1
delta-BHC	<0.0074		0.049	0.0074	ug/L		09/21/15 15:37	09/23/15 14:35	1
Dieldrin	<0.0037		0.049	0.0037	ug/L		09/21/15 15:37	09/23/15 14:35	1
Endosulfan I	<0.0034		0.049	0.0034	ug/L		09/21/15 15:37	09/23/15 14:35	1
Endosulfan II	<0.0041		0.049	0.0041	ug/L		09/21/15 15:37	09/23/15 14:35	1
Endosulfan sulfate	<0.0050		0.049	0.0050	ug/L		09/21/15 15:37	09/23/15 14:35	1
Endrin	<0.0052		0.049	0.0052	ug/L		09/21/15 15:37	09/23/15 14:35	1
Endrin aldehyde	<0.0060		0.049	0.0060	ug/L		09/21/15 15:37	09/23/15 14:35	1
Endrin ketone	<0.0045		0.049	0.0045	ug/L		09/21/15 15:37	09/23/15 14:35	1
gamma-BHC (Lindane)	<0.0035		0.049	0.0035	ug/L		09/21/15 15:37	09/23/15 14:35	1
Heptachlor	<0.0070		0.049	0.0070	ug/L		09/21/15 15:37	09/23/15 14:35	1
Heptachlor epoxide	<0.0036		0.049	0.0036	ug/L		09/21/15 15:37	09/23/15 14:35	1
Methoxychlor	<0.0097		0.049	0.0097	ug/L		09/21/15 15:37	09/23/15 14:35	1
Toxaphene	<0.39		4.9	0.39	ug/L		09/21/15 15:37	09/23/15 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*55*		*14 - 130*	*09/21/15 15:37*	*09/23/15 14:35*	*1*
Tetrachloro-m-xylene	*40*		*40 - 130*	*09/21/15 15:37*	*09/23/15 14:35*	*1*

Client Sample ID: MW-1A

Date Collected: 09/15/15 17:40
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-2
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0058		0.046	0.0058	ug/L		09/22/15 15:26	09/23/15 19:22	1
4,4'-DDE	<0.0047		0.046	0.0047	ug/L		09/22/15 15:26	09/23/15 19:22	1
4,4'-DDT	<0.0065		0.046	0.0065	ug/L		09/22/15 15:26	09/23/15 19:22	1
Aldrin	<0.0066		0.046	0.0066	ug/L		09/22/15 15:26	09/23/15 19:22	1
alpha-BHC	<0.0031		0.046	0.0031	ug/L		09/22/15 15:26	09/23/15 19:22	1
beta-BHC	<0.0084		0.046	0.0084	ug/L		09/22/15 15:26	09/23/15 19:22	1
Chlordane (technical)	<0.088		0.46	0.088	ug/L		09/22/15 15:26	09/23/15 19:22	1
delta-BHC	<0.0069		0.046	0.0069	ug/L		09/22/15 15:26	09/23/15 19:22	1
Dieldrin	<0.0035		0.046	0.0035	ug/L		09/22/15 15:26	09/23/15 19:22	1
Endosulfan I	<0.0032		0.046	0.0032	ug/L		09/22/15 15:26	09/23/15 19:22	1
Endosulfan II	<0.0039		0.046	0.0039	ug/L		09/22/15 15:26	09/23/15 19:22	1
Endosulfan sulfate	<0.0047		0.046	0.0047	ug/L		09/22/15 15:26	09/23/15 19:22	1
Endrin	<0.0049		0.046	0.0049	ug/L		09/22/15 15:26	09/23/15 19:22	1
Endrin aldehyde	<0.0056		0.046	0.0056	ug/L		09/22/15 15:26	09/23/15 19:22	1
Endrin ketone	<0.0042		0.046	0.0042	ug/L		09/22/15 15:26	09/23/15 19:22	1
gamma-BHC (Lindane)	<0.0033		0.046	0.0033	ug/L		09/22/15 15:26	09/23/15 19:22	1
Heptachlor	<0.0066		0.046	0.0066	ug/L		09/22/15 15:26	09/23/15 19:22	1
Heptachlor epoxide	<0.0034		0.046	0.0034	ug/L		09/22/15 15:26	09/23/15 19:22	1
Methoxychlor	<0.0090		0.046	0.0090	ug/L		09/22/15 15:26	09/23/15 19:22	1

Client Sample ID: MW-1A

Date Collected: 09/15/15 17:40
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-2
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	<0.37		4.6	0.37	ug/L		09/22/15 15:26	09/23/15 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*25*		*14 - 130*	*09/22/15 15:26*	*09/23/15 19:22*	*1*
Tetrachloro-m-xylene	*25*	*X*	*40 - 130*	*09/22/15 15:26*	*09/23/15 19:22*	*1*

Client Sample ID: MW-2

Date Collected: 09/14/15 13:45
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-3
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0062		0.049	0.0062	ug/L		09/21/15 15:37	09/23/15 14:49	1
4,4'-DDE	<0.0050		0.049	0.0050	ug/L		09/21/15 15:37	09/23/15 14:49	1
4,4'-DDT	<0.0069		0.049	0.0069	ug/L		09/21/15 15:37	09/23/15 14:49	1
Aldrin	<0.0071		0.049	0.0071	ug/L		09/21/15 15:37	09/23/15 14:49	1
alpha-BHC	<0.0034		0.049	0.0034	ug/L		09/21/15 15:37	09/23/15 14:49	1
beta-BHC	<0.0090		0.049	0.0090	ug/L		09/21/15 15:37	09/23/15 14:49	1
Chlordane (technical)	<0.094		0.49	0.094	ug/L		09/21/15 15:37	09/23/15 14:49	1
delta-BHC	<0.0074		0.049	0.0074	ug/L		09/21/15 15:37	09/23/15 14:49	1
Dieldrin	<0.0038		0.049	0.0038	ug/L		09/21/15 15:37	09/23/15 14:49	1
Endosulfan I	<0.0035		0.049	0.0035	ug/L		09/21/15 15:37	09/23/15 14:49	1
Endosulfan II	<0.0042		0.049	0.0042	ug/L		09/21/15 15:37	09/23/15 14:49	1
Endosulfan sulfate	<0.0050		0.049	0.0050	ug/L		09/21/15 15:37	09/23/15 14:49	1
Endrin	<0.0052		0.049	0.0052	ug/L		09/21/15 15:37	09/23/15 14:49	1
Endrin aldehyde	<0.0060		0.049	0.0060	ug/L		09/21/15 15:37	09/23/15 14:49	1
Endrin ketone	<0.0046		0.049	0.0046	ug/L		09/21/15 15:37	09/23/15 14:49	1
gamma-BHC (Lindane)	<0.0036		0.049	0.0036	ug/L		09/21/15 15:37	09/23/15 14:49	1
Heptachlor	<0.0070		0.049	0.0070	ug/L		09/21/15 15:37	09/23/15 14:49	1
Heptachlor epoxide	<0.0037		0.049	0.0037	ug/L		09/21/15 15:37	09/23/15 14:49	1
Methoxychlor	<0.0097		0.049	0.0097	ug/L		09/21/15 15:37	09/23/15 14:49	1
Toxaphene	<0.40		4.9	0.40	ug/L		09/21/15 15:37	09/23/15 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*		*14 - 130*	*09/21/15 15:37*	*09/23/15 14:49*	*1*
Tetrachloro-m-xylene	*50*		*40 - 130*	*09/21/15 15:37*	*09/23/15 14:49*	*1*

Client Sample ID: MW-3

Date Collected: 09/15/15 14:37
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-4
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		09/22/15 15:26	09/23/15 19:37	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		09/22/15 15:26	09/23/15 19:37	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		09/22/15 15:26	09/23/15 19:37	1
Aldrin	<0.0072		0.050	0.0072	ug/L		09/22/15 15:26	09/23/15 19:37	1
alpha-BHC	<0.0034		0.050	0.0034	ug/L		09/22/15 15:26	09/23/15 19:37	1
beta-BHC	<0.0091		0.050	0.0091	ug/L		09/22/15 15:26	09/23/15 19:37	1
Chlordane (technical)	<0.095		0.50	0.095	ug/L		09/22/15 15:26	09/23/15 19:37	1

Client Sample ID: MW-3

Date Collected: 09/15/15 14:37
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-4
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	<0.0075		0.050	0.0075	ug/L		09/22/15 15:26	09/23/15 19:37	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		09/22/15 15:26	09/23/15 19:37	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		09/22/15 15:26	09/23/15 19:37	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		09/22/15 15:26	09/23/15 19:37	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		09/22/15 15:26	09/23/15 19:37	1
Endrin	<0.0053		0.050	0.0053	ug/L		09/22/15 15:26	09/23/15 19:37	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		09/22/15 15:26	09/23/15 19:37	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		09/22/15 15:26	09/23/15 19:37	1
gamma-BHC (Lindane)	<0.0036		0.050	0.0036	ug/L		09/22/15 15:26	09/23/15 19:37	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		09/22/15 15:26	09/23/15 19:37	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		09/22/15 15:26	09/23/15 19:37	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		09/22/15 15:26	09/23/15 19:37	1
Toxaphene	<0.40		5.0	0.40	ug/L		09/22/15 15:26	09/23/15 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*14 - 130*	*09/22/15 15:26*	*09/23/15 19:37*	*1*
Tetrachloro-m-xylene	*49*		*40 - 130*	*09/22/15 15:26*	*09/23/15 19:37*	*1*

Client Sample ID: MW-4U

Date Collected: 09/15/15 15:37
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-5
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0062		0.050	0.0062	ug/L		09/22/15 15:26	09/23/15 19:53	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		09/22/15 15:26	09/23/15 19:53	1
4,4'-DDT	<0.0069		0.050	0.0069	ug/L		09/22/15 15:26	09/23/15 19:53	1
Aldrin	<0.0071		0.050	0.0071	ug/L		09/22/15 15:26	09/23/15 19:53	1
alpha-BHC	<0.0034		0.050	0.0034	ug/L		09/22/15 15:26	09/23/15 19:53	1
beta-BHC	<0.0090		0.050	0.0090	ug/L		09/22/15 15:26	09/23/15 19:53	1
Chlordane (technical)	<0.094		0.50	0.094	ug/L		09/22/15 15:26	09/23/15 19:53	1
delta-BHC	<0.0074		0.050	0.0074	ug/L		09/22/15 15:26	09/23/15 19:53	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		09/22/15 15:26	09/23/15 19:53	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		09/22/15 15:26	09/23/15 19:53	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		09/22/15 15:26	09/23/15 19:53	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		09/22/15 15:26	09/23/15 19:53	1
Endrin	<0.0052		0.050	0.0052	ug/L		09/22/15 15:26	09/23/15 19:53	1
Endrin aldehyde	<0.0060		0.050	0.0060	ug/L		09/22/15 15:26	09/23/15 19:53	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		09/22/15 15:26	09/23/15 19:53	1
gamma-BHC (Lindane)	<0.0036		0.050	0.0036	ug/L		09/22/15 15:26	09/23/15 19:53	1
Heptachlor	<0.0070		0.050	0.0070	ug/L		09/22/15 15:26	09/23/15 19:53	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		09/22/15 15:26	09/23/15 19:53	1
Methoxychlor	<0.0097		0.050	0.0097	ug/L		09/22/15 15:26	09/23/15 19:53	1
Toxaphene	<0.40		5.0	0.40	ug/L		09/22/15 15:26	09/23/15 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*58*		*14 - 130*	*09/22/15 15:26*	*09/23/15 19:53*	*1*
Tetrachloro-m-xylene	*48*		*40 - 130*	*09/22/15 15:26*	*09/23/15 19:53*	*1*

Client Sample ID: MW-5A

Date Collected: 09/17/15 16:33
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-6
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0061		0.049	0.0061	ug/L		09/22/15 15:26	09/23/15 20:08	1
4,4'-DDE	<0.0050		0.049	0.0050	ug/L		09/22/15 15:26	09/23/15 20:08	1
4,4'-DDT	<0.0068		0.049	0.0068	ug/L		09/22/15 15:26	09/23/15 20:08	1
Aldrin	**0.045**	**J p**	0.049	0.0070	ug/L		09/22/15 15:26	09/23/15 20:08	1
alpha-BHC	**0.59**		0.049	0.0033	ug/L		09/22/15 15:26	09/23/15 20:08	1
beta-BHC	**8.6**		1.2	0.22	ug/L		09/22/15 15:26	09/24/15 17:02	25
Chlordane (technical)	<0.092		0.49	0.092	ug/L		09/22/15 15:26	09/23/15 20:08	1
delta-BHC	**1.2**		0.24	0.036	ug/L		09/22/15 15:26	09/24/15 16:46	5
Dieldrin	**1.6**		0.24	0.018	ug/L		09/22/15 15:26	09/24/15 16:46	5
Endosulfan I	<0.0034		0.049	0.0034	ug/L		09/22/15 15:26	09/23/15 20:08	1
Endosulfan II	<0.0041		0.049	0.0041	ug/L		09/22/15 15:26	09/23/15 20:08	1
Endosulfan sulfate	<0.0050		0.049	0.0050	ug/L		09/22/15 15:26	09/23/15 20:08	1
Endrin	<0.0052		0.049	0.0052	ug/L		09/22/15 15:26	09/23/15 20:08	1
Endrin aldehyde	<0.0059		0.049	0.0059	ug/L		09/22/15 15:26	09/23/15 20:08	1
Endrin ketone	**0.20**		0.049	0.0045	ug/L		09/22/15 15:26	09/23/15 20:08	1
gamma-BHC (Lindane)	**0.20**	**p**	0.049	0.0035	ug/L		09/22/15 15:26	09/23/15 20:08	1
Heptachlor	<0.0069		0.049	0.0069	ug/L		09/22/15 15:26	09/23/15 20:08	1
Heptachlor epoxide	<0.0036		0.049	0.0036	ug/L		09/22/15 15:26	09/23/15 20:08	1
Methoxychlor	<0.0095		0.049	0.0095	ug/L		09/22/15 15:26	09/23/15 20:08	1
Toxaphene	<0.39		4.9	0.39	ug/L		09/22/15 15:26	09/23/15 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*51*		*14 - 130*	*09/22/15 15:26*	*09/23/15 20:08*	*1*
Tetrachloro-m-xylene	*49*		*40 - 130*	*09/22/15 15:26*	*09/23/15 20:08*	*1*

Client Sample ID: MW-5D

Date Collected: 09/17/15 17:56
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-7
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		09/22/15 15:26	09/23/15 20:23	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		09/22/15 15:26	09/23/15 20:23	1
4,4'-DDT	<0.0069		0.050	0.0069	ug/L		09/22/15 15:26	09/23/15 20:23	1
Aldrin	<0.0071		0.050	0.0071	ug/L		09/22/15 15:26	09/23/15 20:23	1
alpha-BHC	**0.34**		0.050	0.0034	ug/L		09/22/15 15:26	09/23/15 20:23	1
beta-BHC	**13**		2.0	0.36	ug/L		09/22/15 15:26	09/24/15 17:32	40
Chlordane (technical)	<0.094		0.50	0.094	ug/L		09/22/15 15:26	09/23/15 20:23	1
delta-BHC	**3.4**		0.50	0.074	ug/L		09/22/15 15:26	09/24/15 17:17	10
Dieldrin	**0.18**		0.050	0.0038	ug/L		09/22/15 15:26	09/23/15 20:23	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		09/22/15 15:26	09/23/15 20:23	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		09/22/15 15:26	09/23/15 20:23	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		09/22/15 15:26	09/23/15 20:23	1
Endrin	<0.0053		0.050	0.0053	ug/L		09/22/15 15:26	09/23/15 20:23	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		09/22/15 15:26	09/23/15 20:23	1
Endrin ketone	**0.012**	**J p**	0.050	0.0046	ug/L		09/22/15 15:26	09/23/15 20:23	1
gamma-BHC (Lindane)	**0.16**	**p**	0.050	0.0036	ug/L		09/22/15 15:26	09/23/15 20:23	1
Heptachlor	<0.0070		0.050	0.0070	ug/L		09/22/15 15:26	09/23/15 20:23	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		09/22/15 15:26	09/23/15 20:23	1
Methoxychlor	<0.0097		0.050	0.0097	ug/L		09/22/15 15:26	09/23/15 20:23	1

Client Sample ID: MW-5D

Date Collected: 09/17/15 17:56
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-7
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	<0.40		5.0	0.40	ug/L		09/22/15 15:26	09/23/15 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*46*		*14 - 130*	*09/22/15 15:26*	*09/23/15 20:23*	*1*
Tetrachloro-m-xylene	*33*	*X*	*40 - 130*	*09/22/15 15:26*	*09/23/15 20:23*	*1*

Client Sample ID: MW-6

Date Collected: 09/16/15 10:30
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-8
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		09/22/15 15:26	09/23/15 20:39	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		09/22/15 15:26	09/23/15 20:39	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		09/22/15 15:26	09/23/15 20:39	1
Aldrin	<0.0072		0.050	0.0072	ug/L		09/22/15 15:26	09/23/15 20:39	1
alpha-BHC	**0.92**		0.20	0.014	ug/L		09/22/15 15:26	09/24/15 17:47	4
beta-BHC	**1.3**		0.20	0.036	ug/L		09/22/15 15:26	09/24/15 17:47	4
Chlordane (technical)	<0.094		0.50	0.094	ug/L		09/22/15 15:26	09/23/15 20:39	1
delta-BHC	**2.1**	**p**	0.20	0.030	ug/L		09/22/15 15:26	09/24/15 17:47	4
Dieldrin	<0.0038		0.050	0.0038	ug/L		09/22/15 15:26	09/23/15 20:39	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		09/22/15 15:26	09/23/15 20:39	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		09/22/15 15:26	09/23/15 20:39	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		09/22/15 15:26	09/23/15 20:39	1
Endrin	<0.0053		0.050	0.0053	ug/L		09/22/15 15:26	09/23/15 20:39	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		09/22/15 15:26	09/23/15 20:39	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		09/22/15 15:26	09/23/15 20:39	1
gamma-BHC (Lindane)	**0.014**	**J p**	0.050	0.0036	ug/L		09/22/15 15:26	09/23/15 20:39	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		09/22/15 15:26	09/23/15 20:39	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		09/22/15 15:26	09/23/15 20:39	1
Methoxychlor	<0.0097		0.050	0.0097	ug/L		09/22/15 15:26	09/23/15 20:39	1
Toxaphene	<0.40		5.0	0.40	ug/L		09/22/15 15:26	09/23/15 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*41*		*14 - 130*	*09/22/15 15:26*	*09/23/15 20:39*	*1*
Tetrachloro-m-xylene	*64*		*40 - 130*	*09/22/15 15:26*	*09/23/15 20:39*	*1*

Client Sample ID: MW-7

Date Collected: 09/16/15 15:21
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-9
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0062		0.049	0.0062	ug/L		09/22/15 15:26	09/23/15 20:54	1
4,4'-DDE	<0.0050		0.049	0.0050	ug/L		09/22/15 15:26	09/23/15 20:54	1
4,4'-DDT	<0.0069		0.049	0.0069	ug/L		09/22/15 15:26	09/23/15 20:54	1
Aldrin	<0.0071		0.049	0.0071	ug/L		09/22/15 15:26	09/23/15 20:54	1
alpha-BHC	**0.0046**	**J p**	0.049	0.0034	ug/L		09/22/15 15:26	09/23/15 20:54	1
beta-BHC	**0.23**		0.049	0.0090	ug/L		09/22/15 15:26	09/23/15 20:54	1
Chlordane (technical)	<0.094		0.49	0.094	ug/L		09/22/15 15:26	09/23/15 20:54	1

Client Sample ID: MW-7

Date Collected: 09/16/15 15:21
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-9
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	<0.0074		0.049	0.0074	ug/L		09/22/15 15:26	09/23/15 20:54	1
Dieldrin	<0.0037		0.049	0.0037	ug/L		09/22/15 15:26	09/23/15 20:54	1
Endosulfan I	<0.0035		0.049	0.0035	ug/L		09/22/15 15:26	09/23/15 20:54	1
Endosulfan II	<0.0041		0.049	0.0041	ug/L		09/22/15 15:26	09/23/15 20:54	1
Endosulfan sulfate	<0.0050		0.049	0.0050	ug/L		09/22/15 15:26	09/23/15 20:54	1
Endrin	<0.0052		0.049	0.0052	ug/L		09/22/15 15:26	09/23/15 20:54	1
Endrin aldehyde	<0.0060		0.049	0.0060	ug/L		09/22/15 15:26	09/23/15 20:54	1
Endrin ketone	<0.0045		0.049	0.0045	ug/L		09/22/15 15:26	09/23/15 20:54	1
gamma-BHC (Lindane)	**0.012**	**J**	0.049	0.0036	ug/L		09/22/15 15:26	09/23/15 20:54	1
Heptachlor	<0.0070		0.049	0.0070	ug/L		09/22/15 15:26	09/23/15 20:54	1
Heptachlor epoxide	**0.0038**	**J p**	0.049	0.0036	ug/L		09/22/15 15:26	09/23/15 20:54	1
Methoxychlor	<0.0097		0.049	0.0097	ug/L		09/22/15 15:26	09/23/15 20:54	1
Toxaphene	<0.39		4.9	0.39	ug/L		09/22/15 15:26	09/23/15 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*58*		*14 - 130*	*09/22/15 15:26*	*09/23/15 20:54*	*1*
Tetrachloro-m-xylene	*59*		*40 - 130*	*09/22/15 15:26*	*09/23/15 20:54*	*1*

Client Sample ID: MW-8

Date Collected: 09/16/15 17:17
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-10
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		09/22/15 15:26	09/23/15 21:09	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		09/22/15 15:26	09/23/15 21:09	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		09/22/15 15:26	09/23/15 21:09	1
Aldrin	<0.0072		0.050	0.0072	ug/L		09/22/15 15:26	09/23/15 21:09	1
alpha-BHC	**0.18**		0.050	0.0034	ug/L		09/22/15 15:26	09/23/15 21:09	1
beta-BHC	**1.2**		0.25	0.045	ug/L		09/22/15 15:26	09/24/15 18:18	5
Chlordane (technical)	<0.095		0.50	0.095	ug/L		09/22/15 15:26	09/23/15 21:09	1
delta-BHC	**0.28**		0.050	0.0075	ug/L		09/22/15 15:26	09/23/15 21:09	1
Dieldrin	**0.0087**	**J**	0.050	0.0038	ug/L		09/22/15 15:26	09/23/15 21:09	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		09/22/15 15:26	09/23/15 21:09	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		09/22/15 15:26	09/23/15 21:09	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		09/22/15 15:26	09/23/15 21:09	1
Endrin	<0.0053		0.050	0.0053	ug/L		09/22/15 15:26	09/23/15 21:09	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		09/22/15 15:26	09/23/15 21:09	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		09/22/15 15:26	09/23/15 21:09	1
gamma-BHC (Lindane)	**0.14**		0.050	0.0036	ug/L		09/22/15 15:26	09/23/15 21:09	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		09/22/15 15:26	09/23/15 21:09	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		09/22/15 15:26	09/23/15 21:09	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		09/22/15 15:26	09/23/15 21:09	1
Toxaphene	<0.40		5.0	0.40	ug/L		09/22/15 15:26	09/23/15 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*66*		*14 - 130*	*09/22/15 15:26*	*09/23/15 21:09*	*1*
Tetrachloro-m-xylene	*67*		*40 - 130*	*09/22/15 15:26*	*09/23/15 21:09*	*1*

Client Sample ID: MW-10

Date Collected: 09/17/15 10:27
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-11

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0062		0.050	0.0062	ug/L		09/22/15 15:26	09/24/15 20:49	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		09/22/15 15:26	09/24/15 20:49	1
4,4'-DDT	<0.0069		0.050	0.0069	ug/L		09/22/15 15:26	09/24/15 20:49	1
Aldrin	<0.0071		0.050	0.0071	ug/L		09/22/15 15:26	09/24/15 20:49	1
alpha-BHC	**0.48**		0.050	0.0034	ug/L		09/22/15 15:26	09/24/15 20:49	1
beta-BHC	**7.1**		0.99	0.18	ug/L		09/22/15 15:26	09/24/15 21:04	20
Chlordane (technical)	<0.094		0.50	0.094	ug/L		09/22/15 15:26	09/24/15 20:49	1
delta-BHC	**0.48**	**p**	0.050	0.0074	ug/L		09/22/15 15:26	09/24/15 20:49	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		09/22/15 15:26	09/24/15 20:49	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		09/22/15 15:26	09/24/15 20:49	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		09/22/15 15:26	09/24/15 20:49	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		09/22/15 15:26	09/24/15 20:49	1
Endrin	<0.0053		0.050	0.0053	ug/L		09/22/15 15:26	09/24/15 20:49	1
Endrin aldehyde	<0.0060		0.050	0.0060	ug/L		09/22/15 15:26	09/24/15 20:49	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		09/22/15 15:26	09/24/15 20:49	1
gamma-BHC (Lindane)	**0.22**		0.050	0.0036	ug/L		09/22/15 15:26	09/24/15 20:49	1
Heptachlor	<0.0070		0.050	0.0070	ug/L		09/22/15 15:26	09/24/15 20:49	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		09/22/15 15:26	09/24/15 20:49	1
Methoxychlor	<0.0097		0.050	0.0097	ug/L		09/22/15 15:26	09/24/15 20:49	1
Toxaphene	<0.40		5.0	0.40	ug/L		09/22/15 15:26	09/24/15 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*65*		*14 - 130*	*09/22/15 15:26*	*09/24/15 20:49*	*1*
Tetrachloro-m-xylene	*63*		*40 - 130*	*09/22/15 15:26*	*09/24/15 20:49*	*1*

Client Sample ID: MW-11

Date Collected: 09/14/15 15:30
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-12

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		09/21/15 15:37	09/23/15 15:04	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		09/21/15 15:37	09/23/15 15:04	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		09/21/15 15:37	09/23/15 15:04	1
Aldrin	<0.0072		0.050	0.0072	ug/L		09/21/15 15:37	09/23/15 15:04	1
alpha-BHC	<0.0034		0.050	0.0034	ug/L		09/21/15 15:37	09/23/15 15:04	1
beta-BHC	**0.015**	**J**	0.050	0.0091	ug/L		09/21/15 15:37	09/23/15 15:04	1
Chlordane (technical)	<0.095		0.50	0.095	ug/L		09/21/15 15:37	09/23/15 15:04	1
delta-BHC	<0.0075		0.050	0.0075	ug/L		09/21/15 15:37	09/23/15 15:04	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		09/21/15 15:37	09/23/15 15:04	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		09/21/15 15:37	09/23/15 15:04	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		09/21/15 15:37	09/23/15 15:04	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		09/21/15 15:37	09/23/15 15:04	1
Endrin	<0.0053		0.050	0.0053	ug/L		09/21/15 15:37	09/23/15 15:04	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		09/21/15 15:37	09/23/15 15:04	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		09/21/15 15:37	09/23/15 15:04	1
gamma-BHC (Lindane)	<0.0036		0.050	0.0036	ug/L		09/21/15 15:37	09/23/15 15:04	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		09/21/15 15:37	09/23/15 15:04	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		09/21/15 15:37	09/23/15 15:04	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		09/21/15 15:37	09/23/15 15:04	1

Client Sample ID: MW-11

Date Collected: 09/14/15 15:30
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-12
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	<0.40		5.0	0.40	ug/L		09/21/15 15:37	09/23/15 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*54*		*14 - 130*	*09/21/15 15:37*	*09/23/15 15:04*	*1*
Tetrachloro-m-xylene	*37*	*X*	*40 - 130*	*09/21/15 15:37*	*09/23/15 15:04*	*1*

Client Sample ID: MW-12

Date Collected: 09/16/15 16:25
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-13
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		09/22/15 15:26	09/24/15 21:20	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		09/22/15 15:26	09/24/15 21:20	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		09/22/15 15:26	09/24/15 21:20	1
Aldrin	<0.0072		0.050	0.0072	ug/L		09/22/15 15:26	09/24/15 21:20	1
alpha-BHC	**0.011**	**J**	0.050	0.0034	ug/L		09/22/15 15:26	09/24/15 21:20	1
beta-BHC	**0.57**		0.050	0.0091	ug/L		09/22/15 15:26	09/24/15 21:20	1
Chlordane (technical)	<0.095		0.50	0.095	ug/L		09/22/15 15:26	09/24/15 21:20	1
delta-BHC	<0.0075		0.050	0.0075	ug/L		09/22/15 15:26	09/24/15 21:20	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		09/22/15 15:26	09/24/15 21:20	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		09/22/15 15:26	09/24/15 21:20	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		09/22/15 15:26	09/24/15 21:20	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		09/22/15 15:26	09/24/15 21:20	1
Endrin	<0.0053		0.050	0.0053	ug/L		09/22/15 15:26	09/24/15 21:20	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		09/22/15 15:26	09/24/15 21:20	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		09/22/15 15:26	09/24/15 21:20	1
gamma-BHC (Lindane)	**0.0062**	**J**	0.050	0.0036	ug/L		09/22/15 15:26	09/24/15 21:20	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		09/22/15 15:26	09/24/15 21:20	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		09/22/15 15:26	09/24/15 21:20	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		09/22/15 15:26	09/24/15 21:20	1
Toxaphene	<0.40		5.0	0.40	ug/L		09/22/15 15:26	09/24/15 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*14 - 130*	*09/22/15 15:26*	*09/24/15 21:20*	*1*
Tetrachloro-m-xylene	*67*		*40 - 130*	*09/22/15 15:26*	*09/24/15 21:20*	*1*

Client Sample ID: MW-13

Date Collected: 09/16/15 11:33
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-14
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		09/22/15 15:26	09/24/15 20:17	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		09/22/15 15:26	09/24/15 20:17	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		09/22/15 15:26	09/24/15 20:17	1
Aldrin	<0.0072		0.050	0.0072	ug/L		09/22/15 15:26	09/24/15 20:17	1
alpha-BHC	**0.061**		0.050	0.0034	ug/L		09/22/15 15:26	09/24/15 20:17	1
beta-BHC	**3.8**		0.50	0.091	ug/L		09/22/15 15:26	09/25/15 17:37	10
Chlordane (technical)	<0.095		0.50	0.095	ug/L		09/22/15 15:26	09/24/15 20:17	1

Client Sample ID: MW-13

Date Collected: 09/16/15 11:33
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-14

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	<0.0075		0.050	0.0075	ug/L		09/22/15 15:26	09/24/15 20:17	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		09/22/15 15:26	09/24/15 20:17	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		09/22/15 15:26	09/24/15 20:17	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		09/22/15 15:26	09/24/15 20:17	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		09/22/15 15:26	09/24/15 20:17	1
Endrin	<0.0053		0.050	0.0053	ug/L		09/22/15 15:26	09/24/15 20:17	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		09/22/15 15:26	09/24/15 20:17	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		09/22/15 15:26	09/24/15 20:17	1
gamma-BHC (Lindane)	**0.049**	**J p**	0.050	0.0036	ug/L		09/22/15 15:26	09/24/15 20:17	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		09/22/15 15:26	09/24/15 20:17	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		09/22/15 15:26	09/24/15 20:17	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		09/22/15 15:26	09/24/15 20:17	1
Toxaphene	<0.40		5.0	0.40	ug/L		09/22/15 15:26	09/24/15 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*45*		*14 - 130*	*09/22/15 15:26*	*09/24/15 20:17*	*1*
Tetrachloro-m-xylene	*57*		*40 - 130*	*09/22/15 15:26*	*09/24/15 20:17*	*1*

Client Sample ID: MW-14

Date Collected: 09/16/15 09:28
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-15

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0062		0.049	0.0062	ug/L		09/22/15 15:26	09/24/15 21:35	1
4,4'-DDE	<0.0050		0.049	0.0050	ug/L		09/22/15 15:26	09/24/15 21:35	1
4,4'-DDT	<0.0069		0.049	0.0069	ug/L		09/22/15 15:26	09/24/15 21:35	1
Aldrin	<0.0071		0.049	0.0071	ug/L		09/22/15 15:26	09/24/15 21:35	1
alpha-BHC	**0.0070**	**J**	0.049	0.0034	ug/L		09/22/15 15:26	09/24/15 21:35	1
beta-BHC	**0.39**		0.049	0.0090	ug/L		09/22/15 15:26	09/24/15 21:35	1
Chlordane (technical)	<0.094		0.49	0.094	ug/L		09/22/15 15:26	09/24/15 21:35	1
delta-BHC	<0.0074		0.049	0.0074	ug/L		09/22/15 15:26	09/24/15 21:35	1
Dieldrin	<0.0037		0.049	0.0037	ug/L		09/22/15 15:26	09/24/15 21:35	1
Endosulfan I	<0.0035		0.049	0.0035	ug/L		09/22/15 15:26	09/24/15 21:35	1
Endosulfan II	<0.0041		0.049	0.0041	ug/L		09/22/15 15:26	09/24/15 21:35	1
Endosulfan sulfate	<0.0050		0.049	0.0050	ug/L		09/22/15 15:26	09/24/15 21:35	1
Endrin	<0.0052		0.049	0.0052	ug/L		09/22/15 15:26	09/24/15 21:35	1
Endrin aldehyde	<0.0060		0.049	0.0060	ug/L		09/22/15 15:26	09/24/15 21:35	1
Endrin ketone	<0.0045		0.049	0.0045	ug/L		09/22/15 15:26	09/24/15 21:35	1
gamma-BHC (Lindane)	<0.0036		0.049	0.0036	ug/L		09/22/15 15:26	09/24/15 21:35	1
Heptachlor	<0.0070		0.049	0.0070	ug/L		09/22/15 15:26	09/24/15 21:35	1
Heptachlor epoxide	<0.0037		0.049	0.0037	ug/L		09/22/15 15:26	09/24/15 21:35	1
Methoxychlor	<0.0097		0.049	0.0097	ug/L		09/22/15 15:26	09/24/15 21:35	1
Toxaphene	<0.39		4.9	0.39	ug/L		09/22/15 15:26	09/24/15 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*59*		*14 - 130*	*09/22/15 15:26*	*09/24/15 21:35*	*1*
Tetrachloro-m-xylene	*60*		*40 - 130*	*09/22/15 15:26*	*09/24/15 21:35*	*1*

Client Sample ID: MW-15

Date Collected: 09/15/15 11:43
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-16

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0062		0.049	0.0062	ug/L		09/22/15 15:26	09/24/15 20:46	1
4,4'-DDE	<0.0050		0.049	0.0050	ug/L		09/22/15 15:26	09/24/15 20:46	1
4,4'-DDT	<0.0069		0.049	0.0069	ug/L		09/22/15 15:26	09/24/15 20:46	1
Aldrin	<0.0071		0.049	0.0071	ug/L		09/22/15 15:26	09/24/15 20:46	1
alpha-BHC	**0.078**		0.049	0.0033	ug/L		09/22/15 15:26	09/24/15 20:46	1
beta-BHC	**0.43**		0.049	0.0089	ug/L		09/22/15 15:26	09/24/15 20:46	1
Chlordane (technical)	<0.093		0.49	0.093	ug/L		09/22/15 15:26	09/24/15 20:46	1
delta-BHC	**0.0078**	**J p**	0.049	0.0074	ug/L		09/22/15 15:26	09/24/15 20:46	1
Dieldrin	<0.0037		0.049	0.0037	ug/L		09/22/15 15:26	09/24/15 20:46	1
Endosulfan I	<0.0034		0.049	0.0034	ug/L		09/22/15 15:26	09/24/15 20:46	1
Endosulfan II	<0.0041		0.049	0.0041	ug/L		09/22/15 15:26	09/24/15 20:46	1
Endosulfan sulfate	<0.0050		0.049	0.0050	ug/L		09/22/15 15:26	09/24/15 20:46	1
Endrin	<0.0052		0.049	0.0052	ug/L		09/22/15 15:26	09/24/15 20:46	1
Endrin aldehyde	<0.0060		0.049	0.0060	ug/L		09/22/15 15:26	09/24/15 20:46	1
Endrin ketone	<0.0045		0.049	0.0045	ug/L		09/22/15 15:26	09/24/15 20:46	1
gamma-BHC (Lindane)	**0.040**	**J**	0.049	0.0035	ug/L		09/22/15 15:26	09/24/15 20:46	1
Heptachlor	<0.0070		0.049	0.0070	ug/L		09/22/15 15:26	09/24/15 20:46	1
Heptachlor epoxide	<0.0036		0.049	0.0036	ug/L		09/22/15 15:26	09/24/15 20:46	1
Methoxychlor	<0.0096		0.049	0.0096	ug/L		09/22/15 15:26	09/24/15 20:46	1
Toxaphene	<0.39		4.9	0.39	ug/L		09/22/15 15:26	09/24/15 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*48*		*14 - 130*	*09/22/15 15:26*	*09/24/15 20:46*	*1*
Tetrachloro-m-xylene	*52*		*40 - 130*	*09/22/15 15:26*	*09/24/15 20:46*	*1*

Client Sample ID: MW-16

Date Collected: 09/16/15 14:06
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-17

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		09/22/15 15:26	09/24/15 21:00	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		09/22/15 15:26	09/24/15 21:00	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		09/22/15 15:26	09/24/15 21:00	1
Aldrin	<0.0072		0.050	0.0072	ug/L		09/22/15 15:26	09/24/15 21:00	1
alpha-BHC	<0.0034		0.050	0.0034	ug/L		09/22/15 15:26	09/24/15 21:00	1
beta-BHC	<0.0091		0.050	0.0091	ug/L		09/22/15 15:26	09/24/15 21:00	1
Chlordane (technical)	<0.095		0.50	0.095	ug/L		09/22/15 15:26	09/24/15 21:00	1
delta-BHC	<0.0075		0.050	0.0075	ug/L		09/22/15 15:26	09/24/15 21:00	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		09/22/15 15:26	09/24/15 21:00	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		09/22/15 15:26	09/24/15 21:00	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		09/22/15 15:26	09/24/15 21:00	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		09/22/15 15:26	09/24/15 21:00	1
Endrin	<0.0053		0.050	0.0053	ug/L		09/22/15 15:26	09/24/15 21:00	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		09/22/15 15:26	09/24/15 21:00	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		09/22/15 15:26	09/24/15 21:00	1
gamma-BHC (Lindane)	<0.0036		0.050	0.0036	ug/L		09/22/15 15:26	09/24/15 21:00	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		09/22/15 15:26	09/24/15 21:00	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		09/22/15 15:26	09/24/15 21:00	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		09/22/15 15:26	09/24/15 21:00	1

Client Sample ID: MW-16

Date Collected: 09/16/15 14:06
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-17
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	<0.40		5.0	0.40	ug/L		09/22/15 15:26	09/24/15 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*75*		*14 - 130*	*09/22/15 15:26*	*09/24/15 21:00*	*1*
Tetrachloro-m-xylene	*52*		*40 - 130*	*09/22/15 15:26*	*09/24/15 21:00*	*1*

Client Sample ID: MW-17

Date Collected: 09/14/15 18:39
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-18
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		09/21/15 15:37	09/23/15 15:18	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		09/21/15 15:37	09/23/15 15:18	1
4,4'-DDT	<0.0069		0.050	0.0069	ug/L		09/21/15 15:37	09/23/15 15:18	1
Aldrin	<0.0071		0.050	0.0071	ug/L		09/21/15 15:37	09/23/15 15:18	1
alpha-BHC	<0.0034		0.050	0.0034	ug/L		09/21/15 15:37	09/23/15 15:18	1
beta-BHC	**0.18**		0.050	0.0090	ug/L		09/21/15 15:37	09/23/15 15:18	1
Chlordane (technical)	<0.094		0.50	0.094	ug/L		09/21/15 15:37	09/23/15 15:18	1
delta-BHC	**0.0074**	**J p**	0.050	0.0074	ug/L		09/21/15 15:37	09/23/15 15:18	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		09/21/15 15:37	09/23/15 15:18	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		09/21/15 15:37	09/23/15 15:18	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		09/21/15 15:37	09/23/15 15:18	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		09/21/15 15:37	09/23/15 15:18	1
Endrin	<0.0053		0.050	0.0053	ug/L		09/21/15 15:37	09/23/15 15:18	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		09/21/15 15:37	09/23/15 15:18	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		09/21/15 15:37	09/23/15 15:18	1
gamma-BHC (Lindane)	<0.0036		0.050	0.0036	ug/L		09/21/15 15:37	09/23/15 15:18	1
Heptachlor	<0.0070		0.050	0.0070	ug/L		09/21/15 15:37	09/23/15 15:18	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		09/21/15 15:37	09/23/15 15:18	1
Methoxychlor	<0.0097		0.050	0.0097	ug/L		09/21/15 15:37	09/23/15 15:18	1
Toxaphene	<0.40		5.0	0.40	ug/L		09/21/15 15:37	09/23/15 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*68*		*14 - 130*	*09/21/15 15:37*	*09/23/15 15:18*	*1*
Tetrachloro-m-xylene	*38*	*X*	*40 - 130*	*09/21/15 15:37*	*09/23/15 15:18*	*1*

Client Sample ID: MW-18

Date Collected: 09/15/15 10:41
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-19
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0062		0.049	0.0062	ug/L		09/21/15 15:37	09/23/15 15:33	1
4,4'-DDE	<0.0050		0.049	0.0050	ug/L		09/21/15 15:37	09/23/15 15:33	1
4,4'-DDT	<0.0069		0.049	0.0069	ug/L		09/21/15 15:37	09/23/15 15:33	1
Aldrin	<0.0071		0.049	0.0071	ug/L		09/21/15 15:37	09/23/15 15:33	1
alpha-BHC	<0.0034		0.049	0.0034	ug/L		09/21/15 15:37	09/23/15 15:33	1
beta-BHC	**0.19**		0.049	0.0090	ug/L		09/21/15 15:37	09/23/15 15:33	1
Chlordane (technical)	<0.094		0.49	0.094	ug/L		09/21/15 15:37	09/23/15 15:33	1

Client Sample ID: MW-18

Date Collected: 09/15/15 10:41
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-19
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	<0.0074		0.049	0.0074	ug/L		09/21/15 15:37	09/23/15 15:33	1
Dieldrin	<0.0038		0.049	0.0038	ug/L		09/21/15 15:37	09/23/15 15:33	1
Endosulfan I	<0.0035		0.049	0.0035	ug/L		09/21/15 15:37	09/23/15 15:33	1
Endosulfan II	<0.0042		0.049	0.0042	ug/L		09/21/15 15:37	09/23/15 15:33	1
Endosulfan sulfate	<0.0050		0.049	0.0050	ug/L		09/21/15 15:37	09/23/15 15:33	1
Endrin	<0.0052		0.049	0.0052	ug/L		09/21/15 15:37	09/23/15 15:33	1
Endrin aldehyde	<0.0060		0.049	0.0060	ug/L		09/21/15 15:37	09/23/15 15:33	1
Endrin ketone	<0.0046		0.049	0.0046	ug/L		09/21/15 15:37	09/23/15 15:33	1
gamma-BHC (Lindane)	<0.0036		0.049	0.0036	ug/L		09/21/15 15:37	09/23/15 15:33	1
Heptachlor	<0.0070		0.049	0.0070	ug/L		09/21/15 15:37	09/23/15 15:33	1
Heptachlor epoxide	<0.0037		0.049	0.0037	ug/L		09/21/15 15:37	09/23/15 15:33	1
Methoxychlor	<0.0097		0.049	0.0097	ug/L		09/21/15 15:37	09/23/15 15:33	1
Toxaphene	<0.40		4.9	0.40	ug/L		09/21/15 15:37	09/23/15 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*58*		*14 - 130*	*09/21/15 15:37*	*09/23/15 15:33*	*1*
Tetrachloro-m-xylene	*35*	*X*	*40 - 130*	*09/21/15 15:37*	*09/23/15 15:33*	*1*

Client Sample ID: MW-19

Date Collected: 09/15/15 09:20
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-20
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		09/21/15 15:37	09/23/15 15:47	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		09/21/15 15:37	09/23/15 15:47	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		09/21/15 15:37	09/23/15 15:47	1
Aldrin	<0.0072		0.050	0.0072	ug/L		09/21/15 15:37	09/23/15 15:47	1
alpha-BHC	<0.0034		0.050	0.0034	ug/L		09/21/15 15:37	09/23/15 15:47	1
beta-BHC	**0.010**	**J p**	0.050	0.0091	ug/L		09/21/15 15:37	09/23/15 15:47	1
Chlordane (technical)	<0.095		0.50	0.095	ug/L		09/21/15 15:37	09/23/15 15:47	1
delta-BHC	<0.0075		0.050	0.0075	ug/L		09/21/15 15:37	09/23/15 15:47	1
Dieldrin	<0.0038	F2	0.050	0.0038	ug/L		09/21/15 15:37	09/23/15 15:47	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		09/21/15 15:37	09/23/15 15:47	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		09/21/15 15:37	09/23/15 15:47	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		09/21/15 15:37	09/23/15 15:47	1
Endrin	<0.0053		0.050	0.0053	ug/L		09/21/15 15:37	09/23/15 15:47	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		09/21/15 15:37	09/23/15 15:47	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		09/21/15 15:37	09/23/15 15:47	1
gamma-BHC (Lindane)	<0.0036		0.050	0.0036	ug/L		09/21/15 15:37	09/23/15 15:47	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		09/21/15 15:37	09/23/15 15:47	1
Heptachlor epoxide	<0.0037	F1	0.050	0.0037	ug/L		09/21/15 15:37	09/23/15 15:47	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		09/21/15 15:37	09/23/15 15:47	1
Toxaphene	<0.40		5.0	0.40	ug/L		09/21/15 15:37	09/23/15 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*49*		*14 - 130*	*09/21/15 15:37*	*09/23/15 15:47*	*1*
Tetrachloro-m-xylene	*33*	*X*	*40 - 130*	*09/21/15 15:37*	*09/23/15 15:47*	*1*

Client Sample ID: MW-20

Date Collected: 09/17/15 13:56
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-21

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0062		0.049	0.0062	ug/L		09/21/15 15:37	09/23/15 16:31	1
4,4'-DDE	<0.0050		0.049	0.0050	ug/L		09/21/15 15:37	09/23/15 16:31	1
4,4'-DDT	<0.0069		0.049	0.0069	ug/L		09/21/15 15:37	09/23/15 16:31	1
Aldrin	<0.0071		0.049	0.0071	ug/L		09/21/15 15:37	09/23/15 16:31	1
alpha-BHC	**0.11**		0.049	0.0034	ug/L		09/21/15 15:37	09/23/15 16:31	1
beta-BHC	**13**		2.0	0.36	ug/L		09/21/15 15:37	09/23/15 17:00	40
Chlordane (technical)	<0.094		0.49	0.094	ug/L		09/21/15 15:37	09/23/15 16:31	1
delta-BHC	**0.98**		0.20	0.030	ug/L		09/21/15 15:37	09/23/15 16:45	4
Dieldrin	<0.0037		0.049	0.0037	ug/L		09/21/15 15:37	09/23/15 16:31	1
Endosulfan I	<0.0035		0.049	0.0035	ug/L		09/21/15 15:37	09/23/15 16:31	1
Endosulfan II	<0.0041		0.049	0.0041	ug/L		09/21/15 15:37	09/23/15 16:31	1
Endosulfan sulfate	**0.0092**	**J p**	0.049	0.0050	ug/L		09/21/15 15:37	09/23/15 16:31	1
Endrin	<0.0052		0.049	0.0052	ug/L		09/21/15 15:37	09/23/15 16:31	1
Endrin aldehyde	<0.0060		0.049	0.0060	ug/L		09/21/15 15:37	09/23/15 16:31	1
Endrin ketone	**0.012**	**J**	0.049	0.0045	ug/L		09/21/15 15:37	09/23/15 16:31	1
gamma-BHC (Lindane)	**0.034**	**J p**	0.049	0.0036	ug/L		09/21/15 15:37	09/23/15 16:31	1
Heptachlor	<0.0070		0.049	0.0070	ug/L		09/21/15 15:37	09/23/15 16:31	1
Heptachlor epoxide	<0.0036		0.049	0.0036	ug/L		09/21/15 15:37	09/23/15 16:31	1
Methoxychlor	<0.0097		0.049	0.0097	ug/L		09/21/15 15:37	09/23/15 16:31	1
Toxaphene	<0.39		4.9	0.39	ug/L		09/21/15 15:37	09/23/15 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*59*		*14 - 130*	*09/21/15 15:37*	*09/23/15 16:31*	*1*
Tetrachloro-m-xylene	*44*		*40 - 130*	*09/21/15 15:37*	*09/23/15 16:31*	*1*

Client Sample ID: MW-21

Date Collected: 09/17/15 11:31
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-22

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0062		0.049	0.0062	ug/L		09/21/15 15:37	09/23/15 17:14	1
4,4'-DDE	<0.0050		0.049	0.0050	ug/L		09/21/15 15:37	09/23/15 17:14	1
4,4'-DDT	<0.0069		0.049	0.0069	ug/L		09/21/15 15:37	09/23/15 17:14	1
Aldrin	<0.0071		0.049	0.0071	ug/L		09/21/15 15:37	09/23/15 17:14	1
alpha-BHC	<0.0034		0.049	0.0034	ug/L		09/21/15 15:37	09/23/15 17:14	1
beta-BHC	**1.8**		0.25	0.045	ug/L		09/21/15 15:37	09/23/15 17:29	5
Chlordane (technical)	<0.094		0.49	0.094	ug/L		09/21/15 15:37	09/23/15 17:14	1
delta-BHC	<0.0074		0.049	0.0074	ug/L		09/21/15 15:37	09/23/15 17:14	1
Dieldrin	<0.0038		0.049	0.0038	ug/L		09/21/15 15:37	09/23/15 17:14	1
Endosulfan I	<0.0035		0.049	0.0035	ug/L		09/21/15 15:37	09/23/15 17:14	1
Endosulfan II	**0.013**	**J**	0.049	0.0042	ug/L		09/21/15 15:37	09/23/15 17:14	1
Endosulfan sulfate	<0.0050		0.049	0.0050	ug/L		09/21/15 15:37	09/23/15 17:14	1
Endrin	<0.0052		0.049	0.0052	ug/L		09/21/15 15:37	09/23/15 17:14	1
Endrin aldehyde	<0.0060		0.049	0.0060	ug/L		09/21/15 15:37	09/23/15 17:14	1
Endrin ketone	<0.0045		0.049	0.0045	ug/L		09/21/15 15:37	09/23/15 17:14	1
gamma-BHC (Lindane)	**0.0047**	**J p**	0.049	0.0036	ug/L		09/21/15 15:37	09/23/15 17:14	1
Heptachlor	<0.0070		0.049	0.0070	ug/L		09/21/15 15:37	09/23/15 17:14	1
Heptachlor epoxide	<0.0037		0.049	0.0037	ug/L		09/21/15 15:37	09/23/15 17:14	1
Methoxychlor	<0.0097		0.049	0.0097	ug/L		09/21/15 15:37	09/23/15 17:14	1

Client Sample ID: MW-21

Date Collected: 09/17/15 11:31
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-22

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	<0.40		4.9	0.40	ug/L		09/21/15 15:37	09/23/15 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*		*14 - 130*	*09/21/15 15:37*	*09/23/15 17:14*	*1*
Tetrachloro-m-xylene	*34*	*X*	*40 - 130*	*09/21/15 15:37*	*09/23/15 17:14*	*1*

Client Sample ID: MW-22

Date Collected: 09/17/15 15:17
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-23

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0059		0.047	0.0059	ug/L		09/22/15 15:26	09/24/15 18:33	1
4,4'-DDE	<0.0048		0.047	0.0048	ug/L		09/22/15 15:26	09/24/15 18:33	1
4,4'-DDT	<0.0065	F1	0.047	0.0065	ug/L		09/22/15 15:26	09/24/15 18:33	1
Aldrin	<0.0067		0.047	0.0067	ug/L		09/22/15 15:26	09/24/15 18:33	1
alpha-BHC	**0.58**		0.047	0.0032	ug/L		09/22/15 15:26	09/24/15 18:33	1
beta-BHC	**32**		4.7	0.85	ug/L		09/22/15 15:26	09/24/15 20:04	100
Chlordane (technical)	<0.089		0.47	0.089	ug/L		09/22/15 15:26	09/24/15 18:33	1
delta-BHC	**4.5**		0.47	0.070	ug/L		09/22/15 15:26	09/24/15 19:18	10
Dieldrin	**0.048**	**p**	0.047	0.0035	ug/L		09/22/15 15:26	09/24/15 18:33	1
Endosulfan I	<0.0033		0.047	0.0033	ug/L		09/22/15 15:26	09/24/15 18:33	1
Endosulfan II	<0.0039	F1	0.047	0.0039	ug/L		09/22/15 15:26	09/24/15 18:33	1
Endosulfan sulfate	<0.0048		0.047	0.0048	ug/L		09/22/15 15:26	09/24/15 18:33	1
Endrin	<0.0049	F1	0.047	0.0049	ug/L		09/22/15 15:26	09/24/15 18:33	1
Endrin aldehyde	<0.0057		0.047	0.0057	ug/L		09/22/15 15:26	09/24/15 18:33	1
Endrin ketone	**0.056**		0.047	0.0043	ug/L		09/22/15 15:26	09/24/15 18:33	1
gamma-BHC (Lindane)	**0.28**	**F1**	0.047	0.0034	ug/L		09/22/15 15:26	09/24/15 18:33	1
Heptachlor	<0.0066		0.047	0.0066	ug/L		09/22/15 15:26	09/24/15 18:33	1
Heptachlor epoxide	**0.021**	**J p**	0.047	0.0035	ug/L		09/22/15 15:26	09/24/15 18:33	1
Methoxychlor	<0.0091	F1	0.047	0.0091	ug/L		09/22/15 15:26	09/24/15 18:33	1
Toxaphene	**4.7**		4.7	0.37	ug/L		09/22/15 15:26	09/24/15 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*43*		*14 - 130*	*09/22/15 15:26*	*09/24/15 18:33*	*1*
Tetrachloro-m-xylene	*61*		*40 - 130*	*09/22/15 15:26*	*09/24/15 18:33*	*1*

Client Sample ID: MW-23

Date Collected: 09/17/15 09:13
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-24

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0062		0.049	0.0062	ug/L		09/21/15 15:37	09/23/15 17:43	1
4,4'-DDE	<0.0050		0.049	0.0050	ug/L		09/21/15 15:37	09/23/15 17:43	1
4,4'-DDT	<0.0069		0.049	0.0069	ug/L		09/21/15 15:37	09/23/15 17:43	1
Aldrin	<0.0071		0.049	0.0071	ug/L		09/21/15 15:37	09/23/15 17:43	1
alpha-BHC	**0.012**	**J**	0.049	0.0034	ug/L		09/21/15 15:37	09/23/15 17:43	1
beta-BHC	**4.5**		0.49	0.090	ug/L		09/21/15 15:37	09/23/15 17:58	10
Chlordane (technical)	<0.094		0.49	0.094	ug/L		09/21/15 15:37	09/23/15 17:43	1

Client Sample ID: MW-23

Date Collected: 09/17/15 09:13
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-24
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	**0.011**	**J**	0.049	0.0074	ug/L		09/21/15 15:37	09/23/15 17:43	1
Dieldrin	<0.0038		0.049	0.0038	ug/L		09/21/15 15:37	09/23/15 17:43	1
Endosulfan I	<0.0035		0.049	0.0035	ug/L		09/21/15 15:37	09/23/15 17:43	1
Endosulfan II	<0.0041		0.049	0.0041	ug/L		09/21/15 15:37	09/23/15 17:43	1
Endosulfan sulfate	<0.0050		0.049	0.0050	ug/L		09/21/15 15:37	09/23/15 17:43	1
Endrin	<0.0052		0.049	0.0052	ug/L		09/21/15 15:37	09/23/15 17:43	1
Endrin aldehyde	<0.0060		0.049	0.0060	ug/L		09/21/15 15:37	09/23/15 17:43	1
Endrin ketone	<0.0045		0.049	0.0045	ug/L		09/21/15 15:37	09/23/15 17:43	1
gamma-BHC (Lindane)	**0.051**	**p**	0.049	0.0036	ug/L		09/21/15 15:37	09/23/15 17:43	1
Heptachlor	<0.0070		0.049	0.0070	ug/L		09/21/15 15:37	09/23/15 17:43	1
Heptachlor epoxide	<0.0037		0.049	0.0037	ug/L		09/21/15 15:37	09/23/15 17:43	1
Methoxychlor	<0.0097		0.049	0.0097	ug/L		09/21/15 15:37	09/23/15 17:43	1
Toxaphene	<0.40		4.9	0.40	ug/L		09/21/15 15:37	09/23/15 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*61*		*14 - 130*	*09/21/15 15:37*	*09/23/15 17:43*	*1*
Tetrachloro-m-xylene	*65*		*40 - 130*	*09/21/15 15:37*	*09/23/15 17:43*	*1*

Client Sample ID: MW-24

Date Collected: 09/14/15 16:53
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-25
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0062		0.049	0.0062	ug/L		09/21/15 15:37	09/23/15 18:12	1
4,4'-DDE	<0.0050		0.049	0.0050	ug/L		09/21/15 15:37	09/23/15 18:12	1
4,4'-DDT	<0.0069		0.049	0.0069	ug/L		09/21/15 15:37	09/23/15 18:12	1
Aldrin	<0.0071		0.049	0.0071	ug/L		09/21/15 15:37	09/23/15 18:12	1
alpha-BHC	<0.0034		0.049	0.0034	ug/L		09/21/15 15:37	09/23/15 18:12	1
beta-BHC	<0.0090		0.049	0.0090	ug/L		09/21/15 15:37	09/23/15 18:12	1
Chlordane (technical)	<0.094		0.49	0.094	ug/L		09/21/15 15:37	09/23/15 18:12	1
delta-BHC	<0.0074		0.049	0.0074	ug/L		09/21/15 15:37	09/23/15 18:12	1
Dieldrin	<0.0038		0.049	0.0038	ug/L		09/21/15 15:37	09/23/15 18:12	1
Endosulfan I	<0.0035		0.049	0.0035	ug/L		09/21/15 15:37	09/23/15 18:12	1
Endosulfan II	<0.0041		0.049	0.0041	ug/L		09/21/15 15:37	09/23/15 18:12	1
Endosulfan sulfate	<0.0050		0.049	0.0050	ug/L		09/21/15 15:37	09/23/15 18:12	1
Endrin	<0.0052		0.049	0.0052	ug/L		09/21/15 15:37	09/23/15 18:12	1
Endrin aldehyde	<0.0060		0.049	0.0060	ug/L		09/21/15 15:37	09/23/15 18:12	1
Endrin ketone	<0.0045		0.049	0.0045	ug/L		09/21/15 15:37	09/23/15 18:12	1
gamma-BHC (Lindane)	<0.0036		0.049	0.0036	ug/L		09/21/15 15:37	09/23/15 18:12	1
Heptachlor	<0.0070		0.049	0.0070	ug/L		09/21/15 15:37	09/23/15 18:12	1
Heptachlor epoxide	<0.0037		0.049	0.0037	ug/L		09/21/15 15:37	09/23/15 18:12	1
Methoxychlor	<0.0097		0.049	0.0097	ug/L		09/21/15 15:37	09/23/15 18:12	1
Toxaphene	<0.39		4.9	0.39	ug/L		09/21/15 15:37	09/23/15 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*70*		*14 - 130*	*09/21/15 15:37*	*09/23/15 18:12*	*1*
Tetrachloro-m-xylene	*53*		*40 - 130*	*09/21/15 15:37*	*09/23/15 18:12*	*1*

Client Sample ID: MW-10 Duplicate

Date Collected: 09/17/15 10:27
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-26
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0062		0.049	0.0062	ug/L		09/21/15 15:37	09/23/15 18:27	1
4,4'-DDE	<0.0050		0.049	0.0050	ug/L		09/21/15 15:37	09/23/15 18:27	1
4,4'-DDT	<0.0069		0.049	0.0069	ug/L		09/21/15 15:37	09/23/15 18:27	1
Aldrin	<0.0071		0.049	0.0071	ug/L		09/21/15 15:37	09/23/15 18:27	1
alpha-BHC	**0.38**		0.049	0.0033	ug/L		09/21/15 15:37	09/23/15 18:27	1
beta-BHC	**5.9**		0.98	0.18	ug/L		09/21/15 15:37	09/23/15 18:41	20
Chlordane (technical)	<0.093		0.49	0.093	ug/L		09/21/15 15:37	09/23/15 18:27	1
delta-BHC	**0.36**	**p**	0.049	0.0074	ug/L		09/21/15 15:37	09/23/15 18:27	1
Dieldrin	<0.0037		0.049	0.0037	ug/L		09/21/15 15:37	09/23/15 18:27	1
Endosulfan I	<0.0034		0.049	0.0034	ug/L		09/21/15 15:37	09/23/15 18:27	1
Endosulfan II	<0.0041		0.049	0.0041	ug/L		09/21/15 15:37	09/23/15 18:27	1
Endosulfan sulfate	<0.0050		0.049	0.0050	ug/L		09/21/15 15:37	09/23/15 18:27	1
Endrin	<0.0052		0.049	0.0052	ug/L		09/21/15 15:37	09/23/15 18:27	1
Endrin aldehyde	<0.0060		0.049	0.0060	ug/L		09/21/15 15:37	09/23/15 18:27	1
Endrin ketone	<0.0045		0.049	0.0045	ug/L		09/21/15 15:37	09/23/15 18:27	1
gamma-BHC (Lindane)	**0.16**		0.049	0.0035	ug/L		09/21/15 15:37	09/23/15 18:27	1
Heptachlor	<0.0070		0.049	0.0070	ug/L		09/21/15 15:37	09/23/15 18:27	1
Heptachlor epoxide	<0.0036		0.049	0.0036	ug/L		09/21/15 15:37	09/23/15 18:27	1
Methoxychlor	<0.0096		0.049	0.0096	ug/L		09/21/15 15:37	09/23/15 18:27	1
Toxaphene	<0.39		4.9	0.39	ug/L		09/21/15 15:37	09/23/15 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*53*		*14 - 130*	*09/21/15 15:37*	*09/23/15 18:27*	*1*
Tetrachloro-m-xylene	*51*		*40 - 130*	*09/21/15 15:37*	*09/23/15 18:27*	*1*

Client Sample ID: Equipment Blank

Date Collected: 09/17/15 17:32
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-27
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		09/21/15 15:37	09/23/15 23:57	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		09/21/15 15:37	09/23/15 23:57	1
4,4'-DDT	<0.0069		0.050	0.0069	ug/L		09/21/15 15:37	09/23/15 23:57	1
Aldrin	<0.0071		0.050	0.0071	ug/L		09/21/15 15:37	09/23/15 23:57	1
alpha-BHC	<0.0034		0.050	0.0034	ug/L		09/21/15 15:37	09/23/15 23:57	1
beta-BHC	<0.0090		0.050	0.0090	ug/L		09/21/15 15:37	09/23/15 23:57	1
Chlordane (technical)	<0.094		0.50	0.094	ug/L		09/21/15 15:37	09/23/15 23:57	1
delta-BHC	<0.0074		0.050	0.0074	ug/L		09/21/15 15:37	09/23/15 23:57	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		09/21/15 15:37	09/23/15 23:57	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		09/21/15 15:37	09/23/15 23:57	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		09/21/15 15:37	09/23/15 23:57	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		09/21/15 15:37	09/23/15 23:57	1
Endrin	<0.0053		0.050	0.0053	ug/L		09/21/15 15:37	09/23/15 23:57	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		09/21/15 15:37	09/23/15 23:57	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		09/21/15 15:37	09/23/15 23:57	1
gamma-BHC (Lindane)	<0.0036		0.050	0.0036	ug/L		09/21/15 15:37	09/23/15 23:57	1
Heptachlor	<0.0070		0.050	0.0070	ug/L		09/21/15 15:37	09/23/15 23:57	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		09/21/15 15:37	09/23/15 23:57	1
Methoxychlor	<0.0097		0.050	0.0097	ug/L		09/21/15 15:37	09/23/15 23:57	1

Client: Environmental International Corporation
Project/Site: GPA Bainbridge

TestAmerica Job ID: 680-116914-1

Client Sample ID: Equipment Blank
Date Collected: 09/17/15 17:32
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-27
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	<0.40		5.0	0.40	ug/L		09/21/15 15:37	09/23/15 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*30*		*14 - 130*	*09/21/15 15:37*	*09/23/15 23:57*	*1*
Tetrachloro-m-xylene	*56*		*40 - 130*	*09/21/15 15:37*	*09/23/15 23:57*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-401981/19-B
Matrix: Water
Analysis Batch: 402414

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 401981

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		09/21/15 15:37	09/23/15 14:06	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		09/21/15 15:37	09/23/15 14:06	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		09/21/15 15:37	09/23/15 14:06	1
Aldrin	<0.0072		0.050	0.0072	ug/L		09/21/15 15:37	09/23/15 14:06	1
alpha-BHC	<0.0034		0.050	0.0034	ug/L		09/21/15 15:37	09/23/15 14:06	1
beta-BHC	<0.0091		0.050	0.0091	ug/L		09/21/15 15:37	09/23/15 14:06	1
Chlordane (technical)	<0.095		0.50	0.095	ug/L		09/21/15 15:37	09/23/15 14:06	1
delta-BHC	<0.0075		0.050	0.0075	ug/L		09/21/15 15:37	09/23/15 14:06	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		09/21/15 15:37	09/23/15 14:06	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		09/21/15 15:37	09/23/15 14:06	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		09/21/15 15:37	09/23/15 14:06	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		09/21/15 15:37	09/23/15 14:06	1
Endrin	<0.0053		0.050	0.0053	ug/L		09/21/15 15:37	09/23/15 14:06	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		09/21/15 15:37	09/23/15 14:06	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		09/21/15 15:37	09/23/15 14:06	1
gamma-BHC (Lindane)	<0.0036		0.050	0.0036	ug/L		09/21/15 15:37	09/23/15 14:06	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		09/21/15 15:37	09/23/15 14:06	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		09/21/15 15:37	09/23/15 14:06	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		09/21/15 15:37	09/23/15 14:06	1
Toxaphene	<0.40		5.0	0.40	ug/L		09/21/15 15:37	09/23/15 14:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*47*		*14 - 130*	*09/21/15 15:37*	*09/23/15 14:06*	*1*
Tetrachloro-m-xylene	*60*		*40 - 130*	*09/21/15 15:37*	*09/23/15 14:06*	*1*

Lab Sample ID: LCS 680-401981/20-B
Matrix: Water
Analysis Batch: 402414

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 401981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.100	0.0776		ug/L		78	54 - 135
4,4'-DDE	0.100	0.0714		ug/L		71	47 - 130
4,4'-DDT	0.100	0.0760		ug/L		76	47 - 134
Aldrin	0.100	0.0598		ug/L		60	34 - 130
alpha-BHC	0.100	0.0693		ug/L		69	48 - 130
beta-BHC	0.100	0.0742		ug/L		74	29 - 174
delta-BHC	0.100	0.0782		ug/L		78	44 - 142
Dieldrin	0.100	0.0772		ug/L		77	54 - 130
Endosulfan I	0.100	0.0648		ug/L		65	40 - 131
Endosulfan II	0.100	0.0705		ug/L		71	44 - 137
Endosulfan sulfate	0.100	0.0775		ug/L		78	49 - 139
Endrin	0.100	0.0773		ug/L		77	59 - 143
Endrin aldehyde	0.100	0.0745		ug/L		75	45 - 166
Endrin ketone	0.100	0.0815		ug/L		81	56 - 137
gamma-BHC (Lindane)	0.100	0.0712		ug/L		71	52 - 130
Heptachlor	0.100	0.0601		ug/L		60	35 - 130

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCS 680-401981/20-B
Matrix: Water
Analysis Batch: 402414

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 401981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor epoxide	0.100	0.0745		ug/L		74	52 - 130
Methoxychlor	0.100	0.0833		ug/L		83	52 - 136

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*66*		*14 - 130*
Tetrachloro-m-xylene	*50*		*40 - 130*

Lab Sample ID: 680-116914-20 MS
Matrix: Water
Analysis Batch: 402414

Client Sample ID: MW-19
Prep Type: Total/NA
Prep Batch: 401981

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	<0.0063		0.100	0.0800		ug/L		80	54 - 135
4,4'-DDE	<0.0051		0.100	0.0796		ug/L		80	47 - 130
4,4'-DDT	<0.0070		0.100	0.0896		ug/L		90	47 - 134
Aldrin	<0.0072		0.100	0.0777		ug/L		78	34 - 130
alpha-BHC	<0.0034		0.100	0.0803		ug/L		80	48 - 130
beta-BHC	0.010	J p	0.100	0.0931		ug/L		83	29 - 174
delta-BHC	<0.0075		0.100	0.0908		ug/L		91	44 - 142
Dieldrin	<0.0038	F2	0.100	0.107		ug/L		107	54 - 130
Endosulfan I	<0.0035		0.100	0.0654	p	ug/L		65	40 - 131
Endosulfan II	<0.0042		0.100	0.0707		ug/L		71	44 - 137
Endosulfan sulfate	<0.0051		0.100	0.0703		ug/L		70	49 - 139
Endrin	<0.0053		0.100	0.0776		ug/L		78	59 - 143
Endrin aldehyde	<0.0061		0.100	0.0705		ug/L		71	45 - 166
Endrin ketone	<0.0046		0.100	0.0733		ug/L		73	56 - 137
gamma-BHC (Lindane)	<0.0036		0.100	0.0806		ug/L		81	52 - 130
Heptachlor	<0.0071		0.100	0.0683		ug/L		68	35 - 130
Heptachlor epoxide	<0.0037	F1	0.100	0.132	F1	ug/L		132	52 - 130
Methoxychlor	<0.0098		0.100	0.0990		ug/L		99	52 - 136

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*55*		*14 - 130*
Tetrachloro-m-xylene	*54*		*40 - 130*

Lab Sample ID: 680-116914-20 MSD
Matrix: Water
Analysis Batch: 402414

Client Sample ID: MW-19
Prep Type: Total/NA
Prep Batch: 401981

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	<0.0063		0.0912	0.0647		ug/L		71	54 - 135	21	50
4,4'-DDE	<0.0051		0.0912	0.0593		ug/L		65	47 - 130	29	50
4,4'-DDT	<0.0070		0.0912	0.0709		ug/L		78	47 - 134	23	50
Aldrin	<0.0072		0.0912	0.0605		ug/L		66	34 - 130	25	50
alpha-BHC	<0.0034		0.0912	0.0639		ug/L		70	48 - 130	23	50
beta-BHC	0.010	J p	0.0912	0.0750		ug/L		71	29 - 174	22	50

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: 680-116914-20 MSD
Matrix: Water
Analysis Batch: 402414

Client Sample ID: MW-19
Prep Type: Total/NA
Prep Batch: 401981

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
delta-BHC	<0.0075		0.0912	0.0688		ug/L		75	44 - 142	28	50
Dieldrin	<0.0038	F2	0.0912	0.0564	p F2	ug/L		62	54 - 130	62	50
Endosulfan I	<0.0035		0.0912	0.0483	p	ug/L		53	40 - 131	30	50
Endosulfan II	<0.0042		0.0912	0.0553		ug/L		61	44 - 137	24	50
Endosulfan sulfate	<0.0051		0.0912	0.0583		ug/L		64	49 - 139	19	50
Endrin	<0.0053		0.0912	0.0595		ug/L		65	59 - 143	26	50
Endrin aldehyde	<0.0061		0.0912	0.0569		ug/L		62	45 - 166	21	50
Endrin ketone	<0.0046		0.0912	0.0571		ug/L		63	56 - 137	25	50
gamma-BHC (Lindane)	<0.0036		0.0912	0.0621		ug/L		68	52 - 130	26	50
Heptachlor	<0.0071		0.0912	0.0526		ug/L		58	35 - 130	26	50
Heptachlor epoxide	<0.0037	F1	0.0912	0.0977		ug/L		107	52 - 130	30	50
Methoxychlor	<0.0098		0.0912	0.0891		ug/L		98	52 - 136	11	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*38*		*14 - 130*
Tetrachloro-m-xylene	*45*		*40 - 130*

Lab Sample ID: MB 680-402151/21-A
Matrix: Water
Analysis Batch: 402421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 402151

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		09/22/15 15:26	09/23/15 16:18	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		09/22/15 15:26	09/23/15 16:18	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		09/22/15 15:26	09/23/15 16:18	1
Aldrin	<0.0072		0.050	0.0072	ug/L		09/22/15 15:26	09/23/15 16:18	1
alpha-BHC	<0.0034		0.050	0.0034	ug/L		09/22/15 15:26	09/23/15 16:18	1
beta-BHC	<0.0091		0.050	0.0091	ug/L		09/22/15 15:26	09/23/15 16:18	1
Chlordane (technical)	<0.095		0.50	0.095	ug/L		09/22/15 15:26	09/23/15 16:18	1
delta-BHC	<0.0075		0.050	0.0075	ug/L		09/22/15 15:26	09/23/15 16:18	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		09/22/15 15:26	09/23/15 16:18	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		09/22/15 15:26	09/23/15 16:18	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		09/22/15 15:26	09/23/15 16:18	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		09/22/15 15:26	09/23/15 16:18	1
Endrin	<0.0053		0.050	0.0053	ug/L		09/22/15 15:26	09/23/15 16:18	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		09/22/15 15:26	09/23/15 16:18	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		09/22/15 15:26	09/23/15 16:18	1
gamma-BHC (Lindane)	<0.0036		0.050	0.0036	ug/L		09/22/15 15:26	09/23/15 16:18	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		09/22/15 15:26	09/23/15 16:18	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		09/22/15 15:26	09/23/15 16:18	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		09/22/15 15:26	09/23/15 16:18	1
Toxaphene	<0.40		5.0	0.40	ug/L		09/22/15 15:26	09/23/15 16:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*70*		*14 - 130*	*09/22/15 15:26*	*09/23/15 16:18*	*1*
Tetrachloro-m-xylene	*76*		*40 - 130*	*09/22/15 15:26*	*09/23/15 16:18*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCS 680-402151/22-A
Matrix: Water
Analysis Batch: 402421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 402151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.100	0.0936		ug/L		94	54 - 135
4,4'-DDE	0.100	0.0910		ug/L		91	47 - 130
4,4'-DDT	0.100	0.0945		ug/L		95	47 - 134
Aldrin	0.100	0.0846		ug/L		85	34 - 130
alpha-BHC	0.100	0.0863		ug/L		86	48 - 130
beta-BHC	0.100	0.0915		ug/L		92	29 - 174
delta-BHC	0.100	0.0944		ug/L		94	44 - 142
Dieldrin	0.100	0.0957		ug/L		96	54 - 130
Endosulfan I	0.100	0.0684		ug/L		68	40 - 131
Endosulfan II	0.100	0.0796		ug/L		80	44 - 137
Endosulfan sulfate	0.100	0.101		ug/L		101	49 - 139
Endrin	0.100	0.0881		ug/L		88	59 - 143
Endrin aldehyde	0.100	0.0919		ug/L		92	45 - 166
Endrin ketone	0.100	0.104		ug/L		104	56 - 137
gamma-BHC (Lindane)	0.100	0.0891		ug/L		89	52 - 130
Heptachlor	0.100	0.0842		ug/L		84	35 - 130
Heptachlor epoxide	0.100	0.0947		ug/L		95	52 - 130
Methoxychlor	0.100	0.105		ug/L		105	52 - 136

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*60*		*14 - 130*
Tetrachloro-m-xylene	*72*		*40 - 130*

Lab Sample ID: 680-116914-23 MS
Matrix: Water
Analysis Batch: 402715

Client Sample ID: MW-22
Prep Type: Total/NA
Prep Batch: 402151

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	<0.0059		0.0988	0.141	F1	ug/L		142	54 - 135
4,4'-DDE	<0.0048		0.0988	0.155	F1	ug/L		157	47 - 130
4,4'-DDT	<0.0065	F1	0.0988	0.197	F1	ug/L		199	47 - 134
Aldrin	<0.0067		0.0988	0.0562	p	ug/L		57	34 - 130
alpha-BHC	0.58		0.0988	0.513	E 4	ug/L		-70	48 - 130
Dieldrin	0.048	p	0.0988	0.172		ug/L		126	54 - 130
Endosulfan I	<0.0033		0.0988	0.0754	p	ug/L		76	40 - 131
Endosulfan II	<0.0039	F1	0.0988	0.172	F1	ug/L		174	44 - 137
Endosulfan sulfate	<0.0048		0.0988	0.127		ug/L		128	49 - 139
Endrin	<0.0049	F1	0.0988	0.142	F1 p	ug/L		144	59 - 143
Endrin aldehyde	<0.0057		0.0988	0.186	F1	ug/L		189	45 - 166
Endrin ketone	0.056		0.0988	0.131		ug/L		76	56 - 137
gamma-BHC (Lindane)	0.28	F1	0.0988	0.309	F1	ug/L		26	52 - 130
Heptachlor	<0.0066		0.0988	0.0501	p	ug/L		51	35 - 130
Heptachlor epoxide	0.021	J p	0.0988	0.0900	p	ug/L		70	52 - 130
Methoxychlor	<0.0091	F1	0.0988	0.194	F1	ug/L		196	52 - 136

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: 680-116914-23 MS
Matrix: Water
Analysis Batch: 402715

Client Sample ID: MW-22
Prep Type: Total/NA
Prep Batch: 402151

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	45		14 - 130
Tetrachloro-m-xylene	46		40 - 130

Lab Sample ID: 680-116914-23 MS
Matrix: Water
Analysis Batch: 402715

Client Sample ID: MW-22
Prep Type: Total/NA
Prep Batch: 402151

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
delta-BHC	4.5		0.0988	4.17	4	ug/L		-368	44 - 142

Lab Sample ID: 680-116914-23 MS
Matrix: Water
Analysis Batch: 402715

Client Sample ID: MW-22
Prep Type: Total/NA
Prep Batch: 402151

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
beta-BHC	32		0.0988	26.4	4	ug/L		-5347	29 - 174

Lab Sample ID: 680-116914-23 MSD
Matrix: Water
Analysis Batch: 402715

Client Sample ID: MW-22
Prep Type: Total/NA
Prep Batch: 402151

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	<0.0059		0.0925	0.124		ug/L		134	54 - 135	12	50
4,4'-DDE	<0.0048		0.0925	0.138	F1	ug/L		149	47 - 130	11	50
4,4'-DDT	<0.0065	F1	0.0925	0.176	F1	ug/L		190	47 - 134	11	50
Aldrin	<0.0067		0.0925	0.0588	p	ug/L		64	34 - 130	4	50
alpha-BHC	0.58		0.0925	0.467	4	ug/L		-124	48 - 130	9	50
Dieldrin	0.048	p	0.0925	0.158		ug/L		119	54 - 130	8	50
Endosulfan I	<0.0033		0.0925	0.0664	p	ug/L		72	40 - 131	13	50
Endosulfan II	<0.0039	F1	0.0925	0.151	F1	ug/L		163	44 - 137	13	50
Endosulfan sulfate	<0.0048		0.0925	0.119		ug/L		128	49 - 139	7	50
Endrin	<0.0049	F1	0.0925	0.127	p	ug/L		137	59 - 143	12	50
Endrin aldehyde	<0.0057		0.0925	0.165	F1	ug/L		178	45 - 166	12	50
Endrin ketone	0.056		0.0925	0.118		ug/L		67	56 - 137	10	50
gamma-BHC (Lindane)	0.28	F1	0.0925	0.268	F1	ug/L		-16	52 - 130	14	50
Heptachlor	<0.0066		0.0925	0.0453	J p	ug/L		49	35 - 130	10	50
Heptachlor epoxide	0.021	J p	0.0925	0.0818	p	ug/L		66	52 - 130	10	50
Methoxychlor	<0.0091	F1	0.0925	0.180	F1	ug/L		195	52 - 136	7	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	39		14 - 130
Tetrachloro-m-xylene	44		40 - 130

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: 680-116914-23 MSD
Matrix: Water
Analysis Batch: 402715

Client Sample ID: MW-22
Prep Type: Total/NA
Prep Batch: 402151

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
delta-BHC	4.5		0.0925	3.52	4	ug/L		-1098	44 - 142	17	50

Lab Sample ID: 680-116914-23 MSD
Matrix: Water
Analysis Batch: 402715

Client Sample ID: MW-22
Prep Type: Total/NA
Prep Batch: 402151

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
beta-BHC	32		0.0925	22.9	4	ug/L		-9538	29 - 174	14	50

GC Semi VOA

Prep Batch: 401981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-116914-1	MW-1	Total/NA	Water	3520C	
680-116914-3	MW-2	Total/NA	Water	3520C	
680-116914-12	MW-11	Total/NA	Water	3520C	
680-116914-18	MW-17	Total/NA	Water	3520C	
680-116914-19	MW-18	Total/NA	Water	3520C	
680-116914-20	MW-19	Total/NA	Water	3520C	
680-116914-20 MS	MW-19	Total/NA	Water	3520C	
680-116914-20 MSD	MW-19	Total/NA	Water	3520C	
680-116914-21	MW-20	Total/NA	Water	3520C	
680-116914-22	MW-21	Total/NA	Water	3520C	
680-116914-24	MW-23	Total/NA	Water	3520C	
680-116914-25	MW-24	Total/NA	Water	3520C	
680-116914-26	MW-10 Duplicate	Total/NA	Water	3520C	
680-116914-27	Equipment Blank	Total/NA	Water	3520C	
LCS 680-401981/20-B	Lab Control Sample	Total/NA	Water	3520C	
MB 680-401981/19-B	Method Blank	Total/NA	Water	3520C	

Prep Batch: 402151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-116914-2	MW-1A	Total/NA	Water	3520C	
680-116914-4	MW-3	Total/NA	Water	3520C	
680-116914-5	MW-4U	Total/NA	Water	3520C	
680-116914-6	MW-5A	Total/NA	Water	3520C	
680-116914-7	MW-5D	Total/NA	Water	3520C	
680-116914-8	MW-6	Total/NA	Water	3520C	
680-116914-9	MW-7	Total/NA	Water	3520C	
680-116914-10	MW-8	Total/NA	Water	3520C	
680-116914-11	MW-10	Total/NA	Water	3520C	
680-116914-13	MW-12	Total/NA	Water	3520C	
680-116914-14	MW-13	Total/NA	Water	3520C	
680-116914-15	MW-14	Total/NA	Water	3520C	
680-116914-16	MW-15	Total/NA	Water	3520C	
680-116914-17	MW-16	Total/NA	Water	3520C	
680-116914-23	MW-22	Total/NA	Water	3520C	
680-116914-23 MS	MW-22	Total/NA	Water	3520C	
680-116914-23 MSD	MW-22	Total/NA	Water	3520C	
LCS 680-402151/22-A	Lab Control Sample	Total/NA	Water	3520C	
MB 680-402151/21-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 402414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-116914-1	MW-1	Total/NA	Water	8081B/8082A	402434
680-116914-3	MW-2	Total/NA	Water	8081B/8082A	402434
680-116914-12	MW-11	Total/NA	Water	8081B/8082A	402434
680-116914-18	MW-17	Total/NA	Water	8081B/8082A	402434
680-116914-19	MW-18	Total/NA	Water	8081B/8082A	402434
680-116914-20	MW-19	Total/NA	Water	8081B/8082A	402434
680-116914-20 MS	MW-19	Total/NA	Water	8081B/8082A	402434
680-116914-20 MSD	MW-19	Total/NA	Water	8081B/8082A	402434
680-116914-21	MW-20	Total/NA	Water	8081B/8082A	402434
680-116914-21	MW-20	Total/NA	Water	8081B/8082A	402434

GC Semi VOA (Continued)

Analysis Batch: 402414 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-116914-21	MW-20	Total/NA	Water	8081B/8082A	402434
680-116914-22	MW-21	Total/NA	Water	8081B/8082A	402434
680-116914-22	MW-21	Total/NA	Water	8081B/8082A	402434
680-116914-24	MW-23	Total/NA	Water	8081B/8082A	402434
680-116914-24	MW-23	Total/NA	Water	8081B/8082A	402434
680-116914-25	MW-24	Total/NA	Water	8081B/8082A	402434
680-116914-26	MW-10 Duplicate	Total/NA	Water	8081B/8082A	402434
680-116914-26	MW-10 Duplicate	Total/NA	Water	8081B/8082A	402434
LCS 680-401981/20-B	Lab Control Sample	Total/NA	Water	8081B/8082A	402434
MB 680-401981/19-B	Method Blank	Total/NA	Water	8081B/8082A	402434

Analysis Batch: 402421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-116914-2	MW-1A	Total/NA	Water	8081B/8082A	402567
680-116914-4	MW-3	Total/NA	Water	8081B/8082A	402567
680-116914-5	MW-4U	Total/NA	Water	8081B/8082A	402567
680-116914-6	MW-5A	Total/NA	Water	8081B/8082A	402567
680-116914-7	MW-5D	Total/NA	Water	8081B/8082A	402567
680-116914-8	MW-6	Total/NA	Water	8081B/8082A	402567
680-116914-9	MW-7	Total/NA	Water	8081B/8082A	402567
680-116914-10	MW-8	Total/NA	Water	8081B/8082A	402567
LCS 680-402151/22-A	Lab Control Sample	Total/NA	Water	8081B/8082A	402151
MB 680-402151/21-A	Method Blank	Total/NA	Water	8081B/8082A	402151

Cleanup Batch: 402434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-116914-1	MW-1	Total/NA	Water	3660B	401981
680-116914-3	MW-2	Total/NA	Water	3660B	401981
680-116914-12	MW-11	Total/NA	Water	3660B	401981
680-116914-18	MW-17	Total/NA	Water	3660B	401981
680-116914-19	MW-18	Total/NA	Water	3660B	401981
680-116914-20	MW-19	Total/NA	Water	3660B	401981
680-116914-20 MS	MW-19	Total/NA	Water	3660B	401981
680-116914-20 MSD	MW-19	Total/NA	Water	3660B	401981
680-116914-21	MW-20	Total/NA	Water	3660B	401981
680-116914-22	MW-21	Total/NA	Water	3660B	401981
680-116914-24	MW-23	Total/NA	Water	3660B	401981
680-116914-25	MW-24	Total/NA	Water	3660B	401981
680-116914-26	MW-10 Duplicate	Total/NA	Water	3660B	401981
680-116914-27	Equipment Blank	Total/NA	Water	3660B	401981
LCS 680-401981/20-B	Lab Control Sample	Total/NA	Water	3660B	401981
MB 680-401981/19-B	Method Blank	Total/NA	Water	3660B	401981

Analysis Batch: 402549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-116914-27	Equipment Blank	Total/NA	Water	8081B/8082A	402434

Cleanup Batch: 402567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-116914-2	MW-1A	Total/NA	Water	3660B	402151
680-116914-4	MW-3	Total/NA	Water	3660B	402151

GC Semi VOA (Continued)

Cleanup Batch: 402567 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-116914-5	MW-4U	Total/NA	Water	3660B	402151
680-116914-6	MW-5A	Total/NA	Water	3660B	402151
680-116914-7	MW-5D	Total/NA	Water	3660B	402151
680-116914-8	MW-6	Total/NA	Water	3660B	402151
680-116914-9	MW-7	Total/NA	Water	3660B	402151
680-116914-10	MW-8	Total/NA	Water	3660B	402151
680-116914-11	MW-10	Total/NA	Water	3660B	402151
680-116914-13	MW-12	Total/NA	Water	3660B	402151
680-116914-14	MW-13	Total/NA	Water	3660B	402151
680-116914-15	MW-14	Total/NA	Water	3660B	402151
680-116914-16	MW-15	Total/NA	Water	3660B	402151
680-116914-17	MW-16	Total/NA	Water	3660B	402151
680-116914-23	MW-22	Total/NA	Water	3660B	402151
680-116914-23 MS	MW-22	Total/NA	Water	3660B	402151
680-116914-23 MSD	MW-22	Total/NA	Water	3660B	402151

Analysis Batch: 402708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-116914-14	MW-13	Total/NA	Water	8081B/8082A	402567
680-116914-16	MW-15	Total/NA	Water	8081B/8082A	402567
680-116914-17	MW-16	Total/NA	Water	8081B/8082A	402567

Analysis Batch: 402715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-116914-6	MW-5A	Total/NA	Water	8081B/8082A	402567
680-116914-6	MW-5A	Total/NA	Water	8081B/8082A	402567
680-116914-7	MW-5D	Total/NA	Water	8081B/8082A	402567
680-116914-7	MW-5D	Total/NA	Water	8081B/8082A	402567
680-116914-8	MW-6	Total/NA	Water	8081B/8082A	402567
680-116914-10	MW-8	Total/NA	Water	8081B/8082A	402567
680-116914-11	MW-10	Total/NA	Water	8081B/8082A	402567
680-116914-11	MW-10	Total/NA	Water	8081B/8082A	402567
680-116914-13	MW-12	Total/NA	Water	8081B/8082A	402567
680-116914-15	MW-14	Total/NA	Water	8081B/8082A	402567
680-116914-23	MW-22	Total/NA	Water	8081B/8082A	402567
680-116914-23	MW-22	Total/NA	Water	8081B/8082A	402567
680-116914-23	MW-22	Total/NA	Water	8081B/8082A	402567
680-116914-23 MS	MW-22	Total/NA	Water	8081B/8082A	402567
680-116914-23 MS	MW-22	Total/NA	Water	8081B/8082A	402567
680-116914-23 MS	MW-22	Total/NA	Water	8081B/8082A	402567
680-116914-23 MSD	MW-22	Total/NA	Water	8081B/8082A	402567
680-116914-23 MSD	MW-22	Total/NA	Water	8081B/8082A	402567
680-116914-23 MSD	MW-22	Total/NA	Water	8081B/8082A	402567

Analysis Batch: 402867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-116914-14	MW-13	Total/NA	Water	8081B/8082A	402567

Lab Chronicle

Client: Environmental International Corporation
Project/Site: GPA Bainbridge

TestAmerica Job ID: 680-116914-1

Client Sample ID: MW-1
Date Collected: 09/15/15 16:47
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			507.3 mL	5 mL	401981	09/21/15 15:37	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402434	09/23/15 11:16	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	507.3 mL	5 mL	402414	09/23/15 14:35	JCK	TAL SAV
	Instrument ID: CSGJ									

Client Sample ID: MW-1A
Date Collected: 09/15/15 17:40
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			541.5 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	541.5 mL	5 mL	402421	09/23/15 19:22	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: MW-2
Date Collected: 09/14/15 13:45
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			505.3 mL	5 mL	401981	09/21/15 15:37	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402434	09/23/15 11:16	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	505.3 mL	5 mL	402414	09/23/15 14:49	JCK	TAL SAV
	Instrument ID: CSGJ									

Client Sample ID: MW-3
Date Collected: 09/15/15 14:37
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			501.7 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	501.7 mL	5 mL	402421	09/23/15 19:37	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: MW-4U
Date Collected: 09/15/15 15:37
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			504.9 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	504.9 mL	5 mL	402421	09/23/15 19:53	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: MW-5A

Date Collected: 09/17/15 16:33
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			514.0 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	514.0 mL	5 mL	402421	09/23/15 20:08	JCK	TAL SAV
	Instrument ID: CSGZ									
Total/NA	Prep	3520C			514.0 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		5	514.0 mL	5 mL	402715	09/24/15 16:46	JCK	TAL SAV
	Instrument ID: CSGZ									
Total/NA	Prep	3520C			514.0 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		25	514.0 mL	5 mL	402715	09/24/15 17:02	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: MW-5D

Date Collected: 09/17/15 17:56
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			504.0 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	504.0 mL	5 mL	402421	09/23/15 20:23	JCK	TAL SAV
	Instrument ID: CSGZ									
Total/NA	Prep	3520C			504.0 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		10	504.0 mL	5 mL	402715	09/24/15 17:17	JCK	TAL SAV
	Instrument ID: CSGZ									
Total/NA	Prep	3520C			504.0 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		40	504.0 mL	5 mL	402715	09/24/15 17:32	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: MW-6

Date Collected: 09/16/15 10:30
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			502.9 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	502.9 mL	5 mL	402421	09/23/15 20:39	JCK	TAL SAV
	Instrument ID: CSGZ									
Total/NA	Prep	3520C			502.9 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		4	502.9 mL	5 mL	402715	09/24/15 17:47	JCK	TAL SAV
	Instrument ID: CSGZ									

Lab Chronicle

Client: Environmental International Corporation
Project/Site: GPA Bainbridge

TestAmerica Job ID: 680-116914-1

Client Sample ID: MW-7

Date Collected: 09/16/15 15:21
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			507.0 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	507.0 mL	5 mL	402421	09/23/15 20:54	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: MW-8

Date Collected: 09/16/15 17:17
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			501.5 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	501.5 mL	5 mL	402421	09/23/15 21:09	JCK	TAL SAV
	Instrument ID: CSGZ									
Total/NA	Prep	3520C			501.5 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		5	501.5 mL	5 mL	402715	09/24/15 18:18	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: MW-10

Date Collected: 09/17/15 10:27
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			504.5 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	504.5 mL	5 mL	402715	09/24/15 20:49	JCK	TAL SAV
	Instrument ID: CSGZ									
Total/NA	Prep	3520C			504.5 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		20	504.5 mL	5 mL	402715	09/24/15 21:04	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: MW-11

Date Collected: 09/14/15 15:30
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			501.7 mL	5 mL	401981	09/21/15 15:37	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402434	09/23/15 11:16	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	501.7 mL	5 mL	402414	09/23/15 15:04	JCK	TAL SAV
	Instrument ID: CSGJ									

Lab Chronicle

Client: Environmental International Corporation
Project/Site: GPA Bainbridge

TestAmerica Job ID: 680-116914-1

Client Sample ID: MW-12

Date Collected: 09/16/15 16:25
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			502.0 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	502.0 mL	5 mL	402715	09/24/15 21:20	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: MW-13

Date Collected: 09/16/15 11:33
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			500.9 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	500.9 mL	5 mL	402708	09/24/15 20:17	JCK	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Prep	3520C			500.9 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		10	500.9 mL	5 mL	402867	09/25/15 17:37	JCK	TAL SAV
	Instrument ID: CSGJ									

Client Sample ID: MW-14

Date Collected: 09/16/15 09:28
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			506.8 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	506.8 mL	5 mL	402715	09/24/15 21:35	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: MW-15

Date Collected: 09/15/15 11:43
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			509.4 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	509.4 mL	5 mL	402708	09/24/15 20:46	JCK	TAL SAV
	Instrument ID: CSGJ									

Client Sample ID: MW-16

Lab Sample ID: 680-116914-17

Date Collected: 09/16/15 14:06

Matrix: Water

Date Received: 09/19/15 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			502.0 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	502.0 mL	5 mL	402708	09/24/15 21:00	JCK	TAL SAV
	Instrument ID: CSGJ									

Client Sample ID: MW-17

Lab Sample ID: 680-116914-18

Date Collected: 09/14/15 18:39

Matrix: Water

Date Received: 09/19/15 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			503.6 mL	5 mL	401981	09/21/15 15:37	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402434	09/23/15 11:16	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	503.6 mL	5 mL	402414	09/23/15 15:18	JCK	TAL SAV
	Instrument ID: CSGJ									

Client Sample ID: MW-18

Lab Sample ID: 680-116914-19

Date Collected: 09/15/15 10:41

Matrix: Water

Date Received: 09/19/15 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			505.4 mL	5 mL	401981	09/21/15 15:37	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402434	09/23/15 11:16	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	505.4 mL	5 mL	402414	09/23/15 15:33	JCK	TAL SAV
	Instrument ID: CSGJ									

Client Sample ID: MW-19

Lab Sample ID: 680-116914-20

Date Collected: 09/15/15 09:20

Matrix: Water

Date Received: 09/19/15 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			502.3 mL	5 mL	401981	09/21/15 15:37	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402434	09/23/15 11:16	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	502.3 mL	5 mL	402414	09/23/15 15:47	JCK	TAL SAV
	Instrument ID: CSGJ									

Client Sample ID: MW-20

Lab Sample ID: 680-116914-21

Date Collected: 09/17/15 13:56

Matrix: Water

Date Received: 09/19/15 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			506.9 mL	5 mL	401981	09/21/15 15:37	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402434	09/23/15 11:16	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	506.9 mL	5 mL	402414	09/23/15 16:31	JCK	TAL SAV
	Instrument ID: CSGJ									

Lab Chronicle

Client: Environmental International Corporation
Project/Site: GPA Bainbridge

TestAmerica Job ID: 680-116914-1

Client Sample ID: MW-20

Date Collected: 09/17/15 13:56
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			506.9 mL	5 mL	401981	09/21/15 15:37	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402434	09/23/15 11:16	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		4	506.9 mL	5 mL	402414	09/23/15 16:45	JCK	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Prep	3520C			506.9 mL	5 mL	401981	09/21/15 15:37	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402434	09/23/15 11:16	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		40	506.9 mL	5 mL	402414	09/23/15 17:00	JCK	TAL SAV
	Instrument ID: CSGJ									

Client Sample ID: MW-21

Date Collected: 09/17/15 11:31
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			505.9 mL	5 mL	401981	09/21/15 15:37	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402434	09/23/15 11:16	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	505.9 mL	5 mL	402414	09/23/15 17:14	JCK	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Prep	3520C			505.9 mL	5 mL	401981	09/21/15 15:37	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402434	09/23/15 11:16	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		5	505.9 mL	5 mL	402414	09/23/15 17:29	JCK	TAL SAV
	Instrument ID: CSGJ									

Client Sample ID: MW-22

Date Collected: 09/17/15 15:17
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-23

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			535.7 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	535.7 mL	5 mL	402715	09/24/15 18:33	JCK	TAL SAV
	Instrument ID: CSGZ									
Total/NA	Prep	3520C			535.7 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		10	535.7 mL	5 mL	402715	09/24/15 19:18	JCK	TAL SAV
	Instrument ID: CSGZ									
Total/NA	Prep	3520C			535.7 mL	5 mL	402151	09/22/15 15:26	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402567	09/23/15 16:00	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		100	535.7 mL	5 mL	402715	09/24/15 20:04	JCK	TAL SAV
	Instrument ID: CSGZ									

Lab Chronicle

Client: Environmental International Corporation
Project/Site: GPA Bainbridge

TestAmerica Job ID: 680-116914-1

Client Sample ID: MW-23

Date Collected: 09/17/15 09:13
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-24

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			506.1 mL	5 mL	401981	09/21/15 15:37	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402434	09/23/15 11:16	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	506.1 mL	5 mL	402414	09/23/15 17:43	JCK	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Prep	3520C			506.1 mL	5 mL	401981	09/21/15 15:37	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402434	09/23/15 11:16	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		10	506.1 mL	5 mL	402414	09/23/15 17:58	JCK	TAL SAV
	Instrument ID: CSGJ									

Client Sample ID: MW-24

Date Collected: 09/14/15 16:53
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			506.6 mL	5 mL	401981	09/21/15 15:37	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402434	09/23/15 11:16	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	506.6 mL	5 mL	402414	09/23/15 18:12	JCK	TAL SAV
	Instrument ID: CSGJ									

Client Sample ID: MW-10 Duplicate

Date Collected: 09/17/15 10:27
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-26

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			508.9 mL	5 mL	401981	09/21/15 15:37	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402434	09/23/15 11:16	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	508.9 mL	5 mL	402414	09/23/15 18:27	JCK	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Prep	3520C			508.9 mL	5 mL	401981	09/21/15 15:37	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402434	09/23/15 11:16	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		20	508.9 mL	5 mL	402414	09/23/15 18:41	JCK	TAL SAV
	Instrument ID: CSGJ									

Client Sample ID: Equipment Blank

Date Collected: 09/17/15 17:32
Date Received: 09/19/15 10:45

Lab Sample ID: 680-116914-27

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			503.7 mL	5 mL	401981	09/21/15 15:37	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	402434	09/23/15 11:16	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	503.7 mL	5 mL	402549	09/23/15 23:57	JCK	TAL SAV
	Instrument ID: CSGJ									

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 97967

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
GPA-Bainbridge	40090 7-4,5	GA
TAL (LAB) PROJECT MANAGER: Sheila Hoffmann	P.O. NUMBER	CONTRACT NO
CLIENT (SITE) PM: Alan Sanders	CLIENT PHONE: 770-772-7100	CLIENT FAX
CLIENT NAME: @EIC	CLIENT E-MAIL: asanders@eicusa.com	
CLIENT ADDRESS: 161 Kimball Bridge Rd Alpharetta, GA 30009		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 3

STANDARD REPORT DELIVERY
DATE DUE Oct 2, 2015
EXPEDITED REPORT DELIVERY (SURCHARGE)
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 8081B	NUMBER OF CONTAINERS SUBMITTED	REMARKS
								PRESERVATIVE		
9/15/15	16:47	MW-1	G	✓					1	
9/15/15	17:40	MW-1A	G	✓					1	
9/14/15	13:45	MW-2	G	✓					1	
9/15/15	14:37	MW-3	G	✓					1	
9/15/15	15:37	MW-4D	G	✓					1	
9/17/15	16:33	MW-5A	G	✓					1	
9/17/15	17:56	MW-5D	G	✓					1	
9/16/15	10:30	MW-6	G	✓					1	
9/16/15	15:21	MW-7	G	✓					1	
9/16/15	17:17	MW-8	G	✓					1	
9/17/15	10:27	MW-10	G	✓					21	
9/14/15	15:30	MW-11	G	✓					1	

680-116914 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	9/18/15	17:15		9/18/15	1735			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	9/18/15	17:15						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO	LABORATORY REMARKS
	09-9-15	1045	YES ○ NO ○		680-116918	2.0/2.4°C 2.2/2.6°C 1.8/2.2°C 1.4/1.8°C

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9/28/2015

TAL8240-680 (1006)

Serial Number 97968

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: GPA Bainbridge	PROJECT NO.: 400007-4.5	PROJECT LOCATION (STATE): GA	
TAL (LAB) PROJECT MANAGER: Sheila Hoffman	P.O NUMBER:	CONTRACT NO.:	
CLIENT (SITE) PM: Alan Sanders	CLIENT PHONE: 770-772-7100	CLIENT FAX:	
CLIENT NAME: EIC	CLIENT E-MAIL: asanders@eicusa.com		
CLIENT ADDRESS: 161 Kimball Bridge Rd Alpharetta, GA 30009			
COMPANY CONTRACTING THIS WORK (if applicable)			

PAGE 2 OF 3

STANDARD REPORT DELIVERY (X)
DATE DUE 10/2/15
EXPEDITED REPORT DELIVERY (SURCHARGE) ( )
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 8081B	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
9/16/15	16:25	MW-12	G	✓						1	
9/16/15	11:33	MW-13	G	✓						1	
9/16/15	9:28	MW-14	G	✓						1	
9/15/15	11:43	MW-15	G	✓						1	
9/16/15	14:06	MW-16	G	✓						1	
9/14/15	18:39	MW-17	G	✓						1	
9/15/15	10:41	MW-18	G	✓						1	
9/15/15	9:20	MW-19	G	✓						2	extra sample included for laboratory QA
9/17/15	13:56	MW-20	G	✓						1	
9/17/15	11:31	MW-21	G	✓						1	
9/17/15	15:17	MW-22	G	✓						2	extra sample included for laboratory QA
9/17/15	9:13	MW-23	G	✓						1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Amelie	9/18/15	10:45		9/18/15	17:25			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	9/18/15	17:25						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	091915	1045	YES ( ) NO ( )		680-116918	2.0/24°C 1.8/2.2°C 2.2/26°C

TAL8240-680 (1008)

Page 41 of 44

9/28/2015

Serial Number 97971

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: GPA Bainbridge	PROJECT NO.: 430057-4.5	PROJECT LOCATION (STATE): GA	PAGE 3 OF 3
TAL (LAB) PROJECT MANAGER: Sheila Hoffman	P.O. NUMBER:	CONTRACT NO:	STANDARD REPORT DELIVERY ● DATE DUE 10/2/15
CLIENT (SITE) PM: Alan Sanders	CLIENT PHONE: 770-772-7008	CLIENT FAX:	EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE
CLIENT NAME: EIC	CLIENT E-MAIL: asanders@eicusa.com		
CLIENT ADDRESS: 161 Kimball Bridge Rd.			
COMPANY CONTRACTING THIS WORK (if applicable)			

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	8260B	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
9/14/15	16:53	MW-24	G	✓				1		1	
9/17/15	10:27	MW-10 Duplicate	G	✓				1		1	
9/17/15	17:32	Equipment Blank	G	✓				1		1	
[illegible]											

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Amelia	9/18/15	12:15		9/18/15	17:25			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	9/18/15	12:15						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO	SAVANNAH LOG NO. 680-116918	LABORATORY REMARKS
	09/19/15	1045				2.0/2.4°C 1.8/2.2°C 2.2/2.6°C

TAL8240-680 (1008)

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9/28/2015

Login Sample Receipt Checklist

Client: Environmental International Corporation

Job Number: 680-116914-1

Login Number: 116914
List Number: 1
Creator: Banda, Christy S

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental International Corporation
Project/Site: GPA Bainbridge

TestAmerica Job ID: 680-116914-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-17
A2LA	ISO/IEC 17025		399.01	02-28-17
Alabama	State Program	4	41450	06-30-16
Arkansas DEQ	State Program	6	88-0692	01-31-16
California	State Program	9	2939	07-31-16
Colorado	State Program	8	N/A	12-31-15
Connecticut	State Program	1	PH-0161	03-31-17
Florida	NELAP	4	E87052	06-30-16
GA Dept. of Agriculture	State Program	4	N/A	06-12-17
Georgia	State Program	4	803	06-30-16
Guam	State Program	9	14-004r	04-16-16
Hawaii	State Program	9	N/A	06-30-16
Illinois	NELAP	5	200022	11-30-15
Indiana	State Program	5	N/A	06-30-15 *
Iowa	State Program	7	353	06-30-17
Kentucky (DW)	State Program	4	90084	12-31-15
Kentucky (UST)	State Program	4	18	06-30-16
Kentucky (WW)	State Program	4	90084	12-31-15
Louisiana	NELAP	6	30690	06-30-16
Louisiana (DW)	NELAP	6	LA150014	12-31-15
Maine	State Program	1	GA00006	09-24-16
Maryland	State Program	3	250	12-31-15
Massachusetts	State Program	1	M-GA006	06-30-16
Michigan	State Program	5	9925	03-05-16
Mississippi	State Program	4	N/A	06-30-15 *
Montana	State Program	8	CERT0081	12-31-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-16
New Jersey	NELAP	2	GA769	09-30-15 *
New Mexico	State Program	6	N/A	06-30-16
New York	NELAP	2	10842	03-31-16
North Carolina (DW)	State Program	4	13701	07-31-16
North Carolina (WW/SW)	State Program	4	269	12-31-15
Oklahoma	State Program	6	9984	08-31-15 *
Pennsylvania	NELAP	3	68-00474	06-30-16
Puerto Rico	State Program	2	GA00006	12-31-15
South Carolina	State Program	4	98001	06-30-15 *
Tennessee	State Program	4	TN02961	06-30-16
Texas	NELAP	6	T104704185-14-7	11-30-15
USDA	Federal		SAV 3-04	06-11-17
Virginia	NELAP	3	460161	06-14-16
Washington	State Program	10	C805	06-10-16
West Virginia (DW)	State Program	3	9950C	12-31-15
West Virginia DEP	State Program	3	094	06-30-16
Wisconsin	State Program	5	999819810	08-31-16
Wyoming	State Program	8	8TMS-L	06-30-16

* Certification renewal pending - certification considered valid.

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

SIXTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT C
MONTHLY SUMMARY OF HOURS INVOICED

Environmental International Corporation
GPA VIRP
April 2015 through October 2015

TASKS	April 15	May 15	Jun 15	Jul 15	Aug 15	Sep 15	Oct 15	TOTAL
Task 4.5 - GW Remediation	288	160	161	110	180	332	163	1,394
Task 4.6 - Meetings & Site Visits	30	22	35	29	30	48	0	193
Total Hours	**318**	**182**	**196**	**138**	**210**	**380**	**163**	**1,588**

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

COMPLIANCE STATUS REPORT

EXHIBIT H
SEVENTH VIRP SEMI-ANNUAL PROGRESS REPORT

(INCLUDED ON CD)

Environmental International Corporation
161 Kimball Bridge Road, Suite 100, Alpharetta, GA 30009
Phone: 770-772-7100, Fax: 770-772-0555
Website:www.eicusa.com

April 29, 2016

Dr. Montague McPherson
Georgia Department of Natural Resources
Response and Remediation Program
Suite 1054 East Tower
2 Martin Luther King, Jr. Drive, S.E.
Atlanta, Georgia 30334

Subject: **Seventh 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 Seventh 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 Seventh 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 Mr. Christopher Novack of GPA at 912-964-3922 or me at the above location.

Sincerely,

ENVIRONMENTAL INTERNATIONAL CORPORATION

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

Cc: Christopher Novack, GPA

CERTIFICATION AND SUPPORTING DOCUMENTS
Seventh VIRP Semi-annual Progress Report
Georgia Ports Authority-Bainbridge Terminal
HSI Site No. 10071
April 29, 2016

"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

4/29/16
Date



Signature and Stamp

HSI SITE 10071, GEORGIA PORTS AUTHORITY-BAINBRIDGE TERMINAL

SEVENTH VIRP SEMI-ANNUAL PROGRESS REPORT

April 29, 2016

Submitted to:

GEORGIA ENVIRONMENTAL PROTECTION DIVISION

Georgia Department of Natural Resources

Response and Remediation Program

Suite 1054 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

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Table 4-2: Flint River Model Results under average flow

Table 4-3: Flint River Model results 1Q10 flow

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Figure 3-2: March 2016 Groundwater Potentiometric Surface Map

Figure 3-3: March 2016 Alpha-BHC Isoconcentration Map

Figure 3-4: March 2016 Beta-BHC Isoconcentration Map

Figure 3-5: March 2016 Delta-BHC Isoconcentration Map

Figure 4-1: Flint River Mixing Model Flow Path with March 2016 Groundwater Potentiometric Surface

Figure 5-1: Uniform Environmental Covenant Monument Installation Locations for Areas of Concern 1 and 2

LIST OF PHOTOGRAPHS

Photograph 5-1: AOC-1 Monument Installation

Photograph 5-2: AOC-2 Monument Installation

LIST OF ATTACHMENTS

A. March 2016 Well Purging and Sampling Field Logs

B. March 2016 Groundwater Analytical Results

C. Mixing Model USGS Data Source

D. AOC-1 Legal Description

E. AOC-2 Legal Description

F. February 2016 AOC Boundary and UEC Monument Survey

G. Monthly Summary of Hours Invoiced

LIST OF EXHIBITS

A. Bainbridge Georgia Gulf Sulfur Manufacturing Plant Web Publication

SECTION

1

1. Introduction

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

1.1 PRIMARY OBJECTIVES

The primary objectives of this report is to present a compilation of tasks conducted by EIC during the sixth-month time frame covering the period from November 2015 to April 2016. This report documents the following tasks, which EIC completed to create a better understanding of Site conditions and constituents of concern (COC) trends and to address concerns from the EPD:

- Addressing comments from EPD
- Continued evaluation of COC trends in groundwater
- Flint River mixing model
- Site closure activities

SECTION

2

2. EPD Comment Letter

GPA received a letter from the EPD, dated February 16, 2016 (EPD, 2016a), that commented on GPA's Sixth VIRP Semi-Annual Progress Report. This letter was the last official response that GPA received from EPD. On behalf of GPA, EIC addresses each of these comments with the following responses:

EPD Comment 1

EPD concurs that since the Universal Environmental Covenant (UEC) has been expanded to include the AOC 2 area and has been extended to include all concrete and asphalt covered surfaces surrounding Warehouses 2 and 3, including up to the fence installed around AOC 1, no further horizontal delineation is required.

Response:

Noted

EPD Comment 2

EPD, as previously stated in the October 6, 2015 comment letter concurs that delineation is incomplete near the Flint River where MW-13 and MW -23 are located. EPD will await the Georgia Ports Authority (GPA) modeling demonstration (in a proposed meeting by GPA that no negative surface water impacts or exceedances of the current Georgia In Stream Water Quality Standards (ISWQSs), as provided in Section 391-3-6-.03(5) of the Georgia Water Quality Control Act, are occurring into the Flint River.

Response:

To address any potential impacts of COCs found at MW-13 and MW-23, EIC has developed a mixing zone model for the exposure area along the Flint River. The results from the mixing zone analysis indicate that there would be no negative surface water impacts or exceedances of the current Georgia In-Stream Water Quality Standards (ISWQSs) even with the highest concentration of BHCs historically detected at the site. Please refer to Section 4 for explicit details on the results of the mixing zone analysis.

EPD Comment 3

In response to EPD's Comment # 6 in the October 6, 2015 comment letter, GPA stated that they do not plan to include Agrium parcels under a groundwater UEC. However, GPA has historically stored pesticides on its property and cannot exempt itself from being a Responsible Party for the release of pesticides on the property. EPD believes that since Agrium did not have a history of using or storing pesticides as part of their business operations, Agrium parcels with pesticide impacts in groundwater should be included as qualifying properties under the Act and a streamlined groundwater UEC be developed for these parcels as part of the final site remedy.

Response:

The BHC storage at GPA took place at a location topographically sidegradient and downgradient of the Agrium parcel in question. Furthermore, none of GPA's historical operations involved storage of pesticides on the Agrium parcels. By contrast, the groundwater COC plumes and the groundwater flow directions chronicled in all VIRP progress reports consistently indicate that the groundwater contamination found in the wells within Agrium parcel would have clearly originated from a hydraulically upgradient source.

As noted in EIC's historical site maps, included in the VIRP, the Georgia Gulf Sulfur (GGS) facility is located on property hydraulically upgradient of the Agrium Parcel. Referring to Exhibit A, derived from GGSs website, GGS has chronicled the company history as follows:

"The Georgia Gulf Sulfur manufacturing plant, in Bainbridge Georgia, was conceived and built in the late 1950's to expand Mr. R.A. Griffin's seed and chemical formulation business into the manufacture of sulfur fungicides and miticides. A plant site was purchased on Spring Creek Road, adjacent to the Texas Gulf Sulfur storage facility, at Georgia's inland port facility, on the Flint River. Production commenced in 1959 using dry bulk sulfur from the Texas Gulf Sulfur terminal. Sulfur supply was changed to molten sulfur in 1974. In 1983 a fluid sulfur production unit was added to the site, currently operating as Bainbridge Chemical Corporation."

Based on the aforementioned findings, GPA does not concur with the EPD that the Agrium Parcel should be included as qualifying properties within the groundwater UEC currently being developed for the GPA property under the EPD approved VIRP.

EPD Comment 4

EPD noted that there were no turbidity readings of monitoring wells sampled and the pump intake readings were too low on most wells during sampling. In future Reports please submit turbidity readings for each monitoring well sampled and make appropriate adjustments to correct the low intake readings.

Response:

We are uncertain why EPD believes that there were no turbidity readings in the report. In fact, EIC has submitted turbidity data with each sampling event conducted throughout the VIRP. Referring to "Table 3-2: Chronological Groundwater Quality Field Parameters Summary" of the sixth Semi-annual Progress Report (EIC, 2015b); please note that turbidity readings are listed here as well. The field notes for the data tabulated in this table are included on EIC's purging and sampling field logs.

With regard to the question on the pump intake, please note that EIC places the tubing intake at the midpoint of the available wetted portion of the screen at each monitoring well during groundwater sampling events. Since the well screens in many of the wells at the site are not fully submerged, EIC adjusts the tubing level such that the intake lies at the midpoint of the water column.

SECTION

3

3. Groundwater Monitoring

During the first quarter of 2016, EIC conducted a semi-annual groundwater monitoring event. Under the approved VIRP (EIC, 2012), all available monitoring wells are being utilized for the monitored natural attenuation (MNA) remedial approach. The following subsections describe the monitoring program for the April 2016 sampling event and compare the data from this event to the data from previous sampling events since the VIRP was approved.

3.1 GROUNDWATER MONITORING FIELD PROGRAM

In March 2016, EIC conducted groundwater monitoring at all 25 available monitoring wells. Two of the monitoring wells (MW-14 and MW-17) are historically defined as "deep wells", as the top of the well screen of each well lies at a depth at or greater than 50 feet below ground surface (bgs). The groundwater samples collected from site monitoring wells were analyzed for pesticide COCs. The analyses included the primary COC benzenehexachloride (BHC) composed of isomers, α-BHC, β-BHC, δ-BHC, and γ-BHC (Lindane). A site layout map including monitoring well locations is illustrated in Figure 3-1.

3.1.1 Sampling Protocol

The groundwater sampling program was conducted in accordance with the current U.S. EPA 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).

3.1.2 Site Access

Prior to EIC's site visit, EIC coordinated with the GPA regarding on-site field activities. EIC also contacted surrounding property owners for permission to access wells located near or on the surrounding properties. EIC contacted Agrium U.S., Inc. (Agrium) for permission to access and conduct off-site well monitoring on the adjacent property to the northeast of the GPA site where wells MW-15, MW-16, MW-18, MW-19, MW-20, and MW-21 are located. EIC 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. Upon arrival at the site, EIC acquired access permission from Ergon, Inc., whose property, to the west of the site, is utilized to more easily access wells MW-2 and MW-11.

3.1.3 Field Procedures

3.1.3.1 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 survey to determine the current groundwater elevations. Gauging data from the March 2016 monitoring event is summarized in Table 3-1.

3.1.3.2 Groundwater Sampling

Prior to initiating well monitoring field activities, EIC placed a non-hazardous label on an empty 55-gallon drum that EIC had previously staged on the north side of the T-Shed on GPA property. This drum was labeled with the shipper noted as "Georgia Ports Authority", contents noted as "IDW Well Purge Water", and the accumulation date noted as "03/03/2016." This drum was used in addition to a previously similarly labeled drum to containerize investigative derived waste (IDW) purge water throughout the event.

EIC utilized a peristaltic pump for purging and for sampling groundwater. Disposable 1/4-inch inner diameter (ID) Teflon-lined tubing and 3/16-inch ID silicon tubing at the pump head 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 instrument 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-measured height of the well TOC relative to the ground surface, the established field-measured depth-to-bottom, and the documented well total depth and screened interval from well construction logs. Following the SOP SESDPROC-301-R3 (EPA, 2013), EIC set the tubing intake at approximately the center of the wetted screen interval.

Purging continued at each well until stabilization occurred as defined in the SOP SESDPROC-301-R3 or until three to five well volumes were purged from the each well. 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 sample bottles with water discharged directly from the pump.

All sample bottles were properly sealed and labeled in the field. Each sample was then stored with double-bagged ice in insulated containers ("coolers") provided by the laboratory. Completed chain-of-custody forms accompanied all samples.

EIC relinquished all samples to Test America laboratory immediately after EIC personnel returned from the site. Laboratory analysis included organochlorine pesticides contaminants using EPA Method 8081B/3660B (with sulfur cleanup). The field forms associated with each groundwater sample are included as Attachment A. The groundwater quality field parameters after stabilization and prior to sample collection are summarized in Table 3-2. The laboratory report for the September sampling event is included as Attachment B. The results of these analyses are summarized in Table 3-3 along with historical groundwater analysis.

3.2 QUALITY ASSURANCE AND QUALITY CONTROL

During the groundwater sampling event, EIC collected additional samples for quality assurance (QA) and for the validation of analytical results. For organochlorine pesticides laboratory matrix spike analysis, one additional sample each from wells MW-5D and MW-22 was collected. A duplicate sample from well MW-10 and an equipment rinsate (blank) sample were also collected. The equipment blank sample was collected by pumping laboratory-supplied de-ionized water through a 10-foot section of Teflon-lined tubing and approximately 6-inches of silicone tubing.

Each QA sample collected at the site was stored with ice in coolers and delivered to the laboratory along with the groundwater samples. These samples were analyzed via EPA method 8081B/3660B. All sample bottles were properly sealed and labeled in the field.

To prevent cross-contamination, new disposable Teflon-lined tubing and disposable silicone tubing were used to collect all samples. EIC's oil/water interface probe and tubing cutter tool were field decontaminated prior to use and between sample locations by washing with pressurized 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, also with pressurized phosphate-free detergent.

3.2.1 QA Evaluation

From Attachment B, the analytical results of all of the parameters in the equipment blank were below the method detection limit (MDL). In the duplicate MW-10 sample, alpha-, beta-, delta-, and gamma-BHC constituents were all above the MDL, in concurrence with the primary MW-10 sample, and both the primary as well as duplicate samples had similar concentrations.

3.3 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 groundwater COC plumes occurring during the March 2016 monitoring event. Data from the sampling event was compared to the data from the baseline sampling event in March 2013 and with each of the subsequent sampling events to determine if monitored natural attenuation is in progress at the site and if it is likely to lead to remedial endpoints (EIC 2012, 2013a, 2013b, 2014a, 2014b, 2015a, and 2015b).

3.3.1 Groundwater Potentiometric Map

Utilizing gauging data summarized in Table 3-1 from the March 2016 groundwater monitoring event, EIC prepared a groundwater potentiometric surface map, illustrated in Figure 3-2. Referring to Figure 3-2, it is apparent that groundwater continues to flow to the southeast towards the Flint River.

Table 3-4 tabulates historical and current groundwater potentiometric surface elevations for all wells at the site as well as statistical data for each monitoring event. Referring to Table 3-4, the average calculated groundwater elevation across the site during the March 2016 gauging event was 79.91 ft. This value is above the calculated average groundwater elevation of 78.10 ft. listed in Table 3-4. This continues to support the seasonal groundwater fluctuation apparent at the site since the initiation of the VIRP monitoring program. The total range of elevation difference for this event was calculated to be 1.54 ft. whereas the previous March 2015 total range was 1.03 ft. This indicates that the overall gradient observed during the March 2016 event was greater than that observed during the March 2015 event.

3.3.2 Horizontal Extent of COC Plumes

Figures 3-3 through 3-5 illustrate the horizontal extent of the BHC plumes comprised of alpha-BHC, beta-BHC, and delta-BHC isomers during March 2016. The following subsections describe the extent of each COC in groundwater at the site.

3.3.2.1 Alpha-BHC Plume

From Figure 3-3, both the concentration and horizontal extent of the alpha-BHC plume have remained relatively stable over time compared to the March 2013 baseline. From the March 2016 sampling event, the highest concentration of alpha-BHC was detected in MW-6 (0.77 µg /L) and the second highest concentration was found in MW-22 (0.61 µg/L). It is apparent from Figure 3-3, that the alpha-BHC plume relative to RRS is horizontally delineated towards the southwest, south towards the Flint River, southeast, and northeast. However, the plume is not horizontally defined to the northwest and upgradient offsite beyond Spring Creek Road.

3.3.2.2 Beta-BHC Plume

Figure 3-4 illustrates the horizontal extent of the beta-BHC plume during the March 2016 monitoring event. From Figure 3-4, both the concentration and horizontal extent of the beta-BHC plume have remained relatively stable over time compared to the March 2013 baseline. The highest concentration of beta-BHC was detected in MW-22 (19 µg/L), which is located hydraulically up-gradient of the GPA and Agrium properties and to the north of Spring Creek Road. The Beta-BHC concentration in MW-22 has historically been noted as the highest within the Beta-BHC plume since the March 2013 VIRP baseline event.

As discussed in previous semi-annual reports, concentrations of beta-BHC continue to fluctuate in a seasonal pattern in the area of wells MW-5A and MW-5D. During the March 2016 sampling event, concentrations at wells MW-5A and MW-5D followed the same historical trend, with detected concentrations decreasing, as compared to the previous September 2015 event, and with concentrations that are comparable to those detected during the March 2015 event.

Near the Flint River at MW-23, the Beta-BHC concentration was again above RRS, as it has been since September 2014, which was the first event in which MW-23 was sampled after it was installed. The concentration near this area, however, have remained relatively stable over time since the September 2014 sampling event.

Referring to Figure 3-4, it is apparent that the horizontal extent of the beta-BHC plume relative to RRS is defined to the northeast and southwest, however, the horizontal extent remains undefined to the northwest and upgradient offsite beyond Spring Creek Road and to the south of MW-23 towards the Flint River.

3.3.2.3 Delta-BHC Plume

Figure 3-5 illustrates the horizontal extent of the delta-BHC plume during the March 2016 monitoring event. Compared to the baseline sampling event, the delta-BHC plume has remained relatively stable over time. In March 2016, the highest concentration detected of the delta-BHC plume occurred near MW-22 (1.9 µg/L). Figure 3-5 illustrates that the horizontal delineation of the delta-BHC plume relative to RRS is complete, except to the northwest offsite beyond Spring Creek Road.

3.3.3 Vertical Extent of COC Plumes

There are two deep wells at the site, designated as wells MW-14 and MW-17. 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 3-3, following historical trends, the concentrations of alpha-BHC, beta-BHC, and delta-BHC at wells MW-14 and MW-17, have remained below RRS as of the March 2016 sampling event. As discussed in the Fourth Semi-annual report (EIC, 2014), EPD concurs with EIC that the vertical limit of the BHC plume above RRS has been defined.

3.3.4 BHC Plume Stability

Based on the findings in Sections 3.3.1 through 3.3.3, it is apparent that the BHC plume has remained stable in vertical and horizontal extent since the March 2013 baseline sampling event. EIC will continue to evaluate data from subsequent groundwater monitoring events to further define plume trends.

SECTION

4

4. Flint River Mixing Model

To evaluate the potential impact of contaminated groundwater flow from the site to the Flint River (River), EIC developed a mixing model. This model utilizes groundwater flow, groundwater COC concentrations, and river flow rates to estimate the maximum potential COC concentrations in the Flint River downstream of the site. The model was executed under several different river flow rate and groundwater COC concentration scenarios to evaluate and compare the resultant concentrations to national and state level regulatory limits. The following subsections discuss the general approach to the mixing model.

4.1 MODEL SETUP

As a primary criterion, EIC established the following assumptions to evaluate the worst-case scenario:

- The entire mass of groundwater is uniformly contaminated with same concentration of COCs.
- Groundwater enters the River along the entire length of the site property along the River.
- Groundwater completely mixes with surface water in the River.

As such, the components of the model consist of:

- The flow rate of groundwater entering the River from the site
- The concentration of COCs in groundwater entering the River from the site
- The flow rate of the River
- The resulting COC concentrations in the River upon mixing of the groundwater with the surface water in the River

4.1.1 Groundwater Mass Flux

The groundwater flux was estimated by utilizing the Dupuit equation shown below (Fetter, 2001).

$$q = \frac{1}{2}k\left(\frac{h_1^2 - h_2^2}{L}\right) = \frac{1}{2} * 66.47\,\frac{ft}{day} * \left(\frac{(31.93\,ft)^2 - (30.31\,ft)^2}{989.32\,ft}\right) = 3.39\,\frac{ft^2}{day} = 1{,}237\,\frac{ft^2}{year}$$

$$q = groundwater\ flow\ per\ unit\ width\ \left(\frac{ft^2}{day}\ \&\ \frac{ft^2}{year}\right)$$

$$k = hydraulic\ conductivty\ \left(\frac{ft}{day}\right)$$

$$h_1 = hydraulic\ head\ at\ source\ (ft)$$

$$h_2 = hydraulic\ head\ at\ groundwater/river\ interface\ (ft)$$

$$L = distance\ between\ source\ and\ river\ (ft)$$

Hydraulic conductivity was assumed to be the average value presented in the 2015 Site Conceptual Model included as Appendix A of the Fifth VIRP Semi-annual Report for the site (EIC, 2015a). Figure 4-1 illustrates the points selected for h_1 *and* h_2 as well as the distance L overlaid on top of the March 2016 groundwater potentiometric surface map. Considering that the closest known potential source is the soil pile in AOC-1, EIC selected that area as h_1 for the location of the hydraulic head at the source. Since groundwater discharges to the river, EIC utilized the hydraulic head at the stilling well SW-1, which is attached to the pier at the site and is installed to the bottom of the Flint River, as h_2.

The confining unit from which hydraulic head was calculated is assumed to be the upper semi-confining unit described in the 2006 USGS report titled *Geohydrology of the Lower Apalachicola–Chattahoochee Flint River Basin, Southwestern Georgia, Northwestern Florida, and Southeastern Alabama* (USGS, 2006). From this report, the elevation of the bottom of this formation is apparently 48 ft. NAVD88 near the Bainbridge, Georgia area. This value is supported by lithological logs from the site, which do not indicate a confining unit above this elevation. Using this elevation as a baseline, the value of h_1 was computed from the groundwater contours shown in Figure 4-1, while the value of h_2 was determined as the height of the water in the Flint River from SW-1 gauging data. The distance L was derived using a trace line along the groundwater flow path between the source and the point where the surficial aquifer intersects the Flint River.

EIC then calculated total groundwater flow to the river utilizing the following equation:

$$Q = q * L_R = 1{,}237\,\frac{ft^2}{year} * 1{,}056\,ft = 1.31 * 10^6\,\frac{ft^3}{year}$$

$Q = groundwater\ flowrate\ \left(\frac{ft^3}{year}\right)$

$q = grounderwater\ flow\ per\ unit\ width\ \left(\frac{ft^2}{day}\ \&\ \frac{ft^2}{year}\right)$

$L_R = Length\ of\ site\ \ along\ the\ Flint\ riverfront\ (ft)$

4.1.2 Groundwater Concentration

For the purposes of this model, the selected groundwater concentrations were assumed to be consistent throughout the entire cross-section along the shoreline of the Flint River. EIC chose three sets of concentrations ranging from current site conditions (i.e. at the leading edge) to a worst-case scenario (i.e. maximum concentration ever recorded at the site), presented in Table 4-1, to compute varying degrees of potential downstream concentrations.

For the first scenario, EIC utilized the maximum concentrations measured at MW-23 from the latest sampling event, March 2016, to represent the current leading edge of the plume. For the second scenario, EIC utilized the maximum concentrations measured for each COC during the March 2016 sampling event to represent a current worst-case scenario. For the third scenario, EIC utilized the historical maximum concentrations of each constituent from Table 3-4 (that includes a compilation of VIRP and pre-VIRP groundwater analytical data), as an absolute worst-case scenario.

4.1.3 Flint River Flow Rate

Georgia instream water quality standards are described in Georgia administrative code 391-3-6-.03 *Water Use Classifications and Water Quality Standards* (EPD, 2013). Referring to Chapter 5.e.iv, the COCs should not exceed the maximum allowable concentrations during annual average or higher stream flow conditions. Additionally, referring to Chapter 5.e.ii, Gamma-BHC (Lindane) specifically should not exceed acute criteria during 1Q10 stream flow conditions. As such, EIC utilized discharge flow rates of the Flint River, measured at USGS gauging station in Bainbridge GA. These values are described in the following sections.

4.1.3.1 Average River Discharge

Utilizing the annual average discharge data from the USGS river gauging station 02356000 recorded from 2005 to 2015 (Attachment C), EIC estimated the average discharge for the Flint River. According to this estimate, the average discharge in the river was 6,873 cubic feet per second (cfs).

4.1.3.2 1Q10 River Discharge

According to the annual water report for 2015 (from USGS gauging station 02356000), the lowest daily mean discharge of the Flint River was recorded on September 5, 2011. EIC utilized a value, 1,010 cfs reported for that date as an estimate for 1Q10 river flow in computing the mixing zone values for Lindane.

4.1.4 Upstream River Concentration

As a conservative estimate of the potential effect of groundwater contamination from the GPA site - entering the Flint River - EIC assumed as an upstream concentration (C_{Ru}) of the respective COC in the River would be zero (0). For the purposes of the model, the mixing zone analysis only accounts for the potential impact of groundwater discharging from the GPA site.

4.2 MIXING ZONE CALCULATION

EIC utilized the following equations to compute the potential downstream River concentrations based on the variables defined in Section 4.1. This equation utilizes the principle of conservation of mass and assumes complete mixing of contaminants from groundwater to the River to calculate the downstream River concentration.

$$C_{gw}Q_{gw} + C_{Ru}Q_{Ru} = C_{Rd}Q_{Rd}$$

$$C_{gw} = groundwater\ COC\ concentration\ \left(\frac{\mu g}{L}\right)$$

$$Q_{gw} = groundwater\ flowrate\ \left(\frac{ft^3}{year}\right)$$

$$C_{Ru} = upstream\ river\ concentration\ \left(\frac{\mu g}{L}\right)$$

$$Q_{Ru} = Q_R = upstream\ river\ flowrate\ \left(\frac{ft^3}{year}\right)$$

$$C_{Rd} = downstream\ river\ concentration\ \left(\frac{\mu g}{L}\right)$$

$$Q_{Rd} = Q_{gw} + Q_{Ru} = downstream\ river\ flowrate$$

Since,

$$C_{Ru} = 0$$

The mixing equation can be simplified to:

$$C_{gw}Q_{gw} = C_{Rd}Q_{Rd} = C_{Rd}(Q_{gw} + Q_{Ru})$$

Thus,

$$C_{Rd} = C_{gw}\left(\frac{Q_{gw}}{Q_{gw} + Q_{Ru}}\right) = C_{gw} * DF$$

where DF serves as the Dilution factor

Based on the Groundwater Mass Flux Flow (Section 4.1.1) and the river flow rates (Section 4.1.3):

For average river flow conditions:

$$DF_{avg} = \left(\frac{Q_{gw}}{Q_{gw}+Q_{Ru}}\right) = \left(\frac{1.31*10^6 \frac{ft^3}{year}}{1.31*10^6 \frac{ft^3}{year} + 2.17*10^{11} \frac{ft^3}{year}}\right) = 6.03 * 10^{-6}$$

And for 1Q10 river flow conditions:

$$DF_{1Q10} = \left(\frac{Q_{gw}}{Q_{gw}+Q_{Ru}}\right) = \left(\frac{1.31*10^6 \frac{ft^3}{year}}{1.31*10^6 \frac{ft^3}{year} + 3.19*10^{10} \frac{ft^3}{year}}\right) = 4.10 * 10^{-5}$$

EIC utilized the dilution factor to compute the downstream river concentration for each COC for all three concentration scenarios.

4.3 RESULTS

Tables 4-2 and 4-3 list the results of the conservation of mass calculations as well as the state and national regulatory levels for each COC. The regulatory levels considered for this evaluation are the Georgia Instream Water Quality Standard (EPD, 2013) and the National Primary Drinking Water Standard (EPA, 2009). Table 4-2 considers the Georgia Standards under average river flow conditions, while Table 4-3 considers the special case of acute criteria for Gamma-BHC under 1Q10 river flow conditions.

Referring to the estimated downstream river concentrations listed in Table 4-2 and 4-3, it is apparent that the potential impact from groundwater discharge from the site into the Flint River would be negligible. In addition, these downstream river concentrations are several orders of magnitude lower than the state or federal regulatory standards. Considering that this is a conservative worst-case scenario, potential COC migration to the River from this site would not result in downstream river concentrations in excess of either federal or state surface water quality standards.

SECTION

5

5. Site Closure

In conformance with VIRP requirements, GPA has completed the soil delineation tasks. The following subsections discuss the remainder of the tasks pertaining to the management of contaminated soils.

5.1 SITE COVENANTS

As discussed in Section 2, GPA is currently in the process of preparing a Uniform Environmental Covenant (UEC) pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, et seq. as an institutional control. The UEC will clearly outline the area subject to engineering controls (ECs) and institutional controls (ICs). As discussed in the Sixth VIRP Semi-annual Progress Report, there are currently two AOCs subject to the UEC namely, AOC-1 and AOC-2. The following subsection discusses the general location of each AOC.

5.1.1 AOC Locations and Legal Descriptions

AOC-1 is designated as the entire parcel within the fenced in area, shown in Figure 5-1, lying adjacent to and south of the storage building known as the former Rock Salt Warehouse (RSW). AOC-2 previously was defined to include only the area under and near Warehouse 3 (WH3). In response to EPD's comments, noted in Section 2, the AOC-2 boundary was redrawn to include the area beneath Warehouse 2 (WH2) and the northwestern portion of Warehouse 3 (WH3). In addition, AOC-2 also was redefined to include the surrounding concrete and asphalt covered surfaces extending west/southwest and reaching the fence installed around AOC-1. The limits of the concrete/asphalt covered surfaces included in AOC-2 were defined from the original boundaries drawn in the VIRP document and from soil sampling data derived from historical reports (Law 1999, 2001, and 2002), prepared under previous site investigations.

The new boundary for AOC-2 was surveyed in February 2016 by a Georgia licensed surveyor. Figure 5-1 illustrates the surveyed boundary for AOC-2. Following the February 2016 survey, the surveyor developed a legal description for both AOC-1 and AOC-2. The legal description for AOC-1 was derived from a previous survey performed by Donald Garrett and Associates in 2014. The certified legal descriptions for AOC-1 and AOC-2 are included as Attachment D and Attachment E, respectively. A certified survey map including both AOCs is included as Attachment F.

5.2 MAINTENANCE AND MONITORING PLAN

As discussed in the Sixth VIRP Semi-annual Progress Report, GPA will prepare a maintenance and monitoring plan (M&MP) which will include a soil management plan for AOC-1 and AOC-2. This plan will be included in the UEC submittal to EPD.

5.3 MONUMENTS

Consistent with the UEC requirements, GPA has installed permanent monuments to identify the UEC restrictions at the site. The monuments were installed by EIC in February 2016 as shown in Photographs 5-1 and 5-2. The monuments are installed in conspicuous locations within each of the respective AOCs notifying GPA employees, contractors, and visitors about the site covenants and restrictions pertaining to BHC soil contamination.

The dimensions of each granite monument was approximately 24-inch long, 12-inch wide, and 6-inch high. The monuments were installed by first excavating soil and asphalt in the proposed location and setting the monument in quick dry concrete. In order to protect the monument, EIC set each marker in a concrete pad consisting of 6000-psi rated concrete. Approximately two (2) cubic feet of soil and asphalt was removed while installing both monuments. All IDW soil generated during monument installation activities was containerized in steel 55-gallon drums labeled with "GPA" as the shipper, "soil IDW" as the contents, and the generation date.

5.4 COMPLIANCE STATUS REPORT

In accordance with the VIRP requirements, EIC has initiated preparation of a CSR for the site, as defined in EPD Rule 391-3-19-.06(3) (EPD, 2016b). The CSR will document the current compliance status of the site with Type 5 RRS. The CSR will be referenced in the UEC discussed in Section 5.1.

SECTION

6

6. Summary

During the six-month period from November 2015 through March 2016, EIC has successfully completed various tasks to meet the primary objectives set forth in the VIRP and other follow up tasks related to site closure activities.

EIC has continued semi-annual groundwater sampling to define the extents of BHC constituents within the site. The March 2016 groundwater monitoring event provided continued evidence of plume delineation and stability within the site. Delineation, however, remains incomplete offsite to the northwest for the monitored constituents alpha-BHC, beta-BHC, and delta-BHC and to the south towards the Flint River for beta-BHC.

To determine the potential impact of COCs on surface water quality, EIC developed a mixing zone model of the groundwater seepage into the Flint River. From the model analysis, potential groundwater seepage of the COCs would not result in exceedance of Georgia Instream Water Quality Standards.

Consistent with the VIRP requirements for management of contaminated soils, GPA has defined the areas subject to site covenants and completed installation of monuments notifying the environmental site conditions. Since GPA has met all requirements specified in the VIRP, EIC has initiated preparation of a CSR and UEC to provide site closure.

SECTION

7

7. Summary of Hours

A monthly summary of hours invoiced for the aforementioned tasks during the period from November 2015 through April 2016 is included as Attachment G.

SECTION

8

8. References

Environmental International Corporation (EIC), 2012. *VIRP Application, BHC Remediation*, Alpharetta, Georgia, July 31, 2012.

EIC, 2013a. *First VIRP Semi-annual Progress Report, Georgia Ports Authority – Bainbridge Terminal, HIS Site No. 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19, Bainbridge, Decatur County, Georgia.* Alpharetta, Georgia, May 9, 2013.

EIC, 2013b. *Second VIRP Semi-annual Progress Report, Georgia Ports Authority – Bainbridge Terminal, HIS Site No. 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19, Bainbridge, Decatur County, Georgia.* Alpharetta, Georgia, October 30, 2013.

EIC, 2014a. *Third VIRP Semi-annual Progress Report, Georgia Ports Authority – Bainbridge Terminal, HIS Site No. 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19, Bainbridge, Decatur County, Georgia.* Alpharetta, Georgia, April 29, 2014.

EIC, 2014b. *Fourth VIRP Semi-annual Progress Report, Georgia Ports Authority – Bainbridge Terminal, HIS Site No. 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19, Bainbridge, Decatur County, Georgia.* Alpharetta, Georgia, October 30, 2014.

EIC, 2015a. *Fifth VIRP Semi-annual Progress Report, Georgia Ports Authority – Bainbridge Terminal, HIS Site No. 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19, Bainbridge, Decatur County, Georgia.* Alpharetta, Georgia, May 4, 2015.

EIC, 2015b. *Sixth VIRP Semi-annual Progress Report, Georgia Ports Authority – Bainbridge Terminal, HIS Site No. 10071, 1321 Spring Creek Road, Land Lot 373, Parcels: 20, 21A, and portion of Parcel 19, Bainbridge, Decatur County, Georgia.* Alpharetta, Georgia. November 2, 2015.

U. S. Environmental Protection Agency (EPA), 2009. *National Primary Drinking Water Regulations.* Washington, DC. May 2009

EPA, 2013. *Groundwater Sampling, Operating Procedure, Number SESDPROC-301-R3*. Region 4, U.S. Environmental Protection Agency, Science and Ecosystem Support Division, Athens, Georgia. March 6, 2013.

Georgia Environmental Protection Division (EPD), 2013. *Rules and Regulations for Water Quality Control, Chapter 391-3-6-.03*. Atlanta, Georgia. August 27, 2013.

EPD, 2016a. Letter from GA EPD to GPA. *Sixth VIRP Semi-Annual Progress Report, Georgia Ports Authority–Bainbridge Terminal, HSI Site No. 10071, 1321 Spring Creek Road, Bainbridge, Decatur County*. Atlanta, Georgia. February 16, 2015.

EPD, 2016b. *Department 391. Rules of Georgia Department of Natural Resources, Chapter 391-3. Environmental Protection, Subject 391-3-19. Hazardous Site Response, Rule 391-3-19-.06. Corrective Action, Filed April 4, 2016*. Atlanta, Georgia. April 4, 2016

LAW Engineering and Environmental Services, Inc. (LAW), 1999. *Compliance Status Report, Georgia Ports Authority – Bainbridge Terminal, Bainbridge, Decatur County, Georgia, HIS Site No. 10071*. September 1999.

LAW, 2001. *Revised Compliance Status Report, Georgia Ports Authority – Bainbridge Terminal, Bainbridge, Decatur County, Georgia, HIS Site No. 10071*. November 2001.

LAW, 2002. *Addendum to Revised Compliance Status Report, Summary of Recent Soil and Groundwater Testing, Georgia Ports Authority – Bainbridge Terminal, Bainbridge, Georgia, HIS Site No. 10071*. Atlanta, Georgia, August 14, 2002.

United States Geological Survey (USGS), 2006, *Geohydrology of the lower Apalachicola–Chattahoochee–Flint River Basin, southwestern Georgia, northwestern Florida, and southeastern Alabama: U.S. Geological Survey Scientific Investigations Report 2006-5070*. Reston, Virginia. 2006

USGS, 2016. *Station 02356000 Flint River at Bainbridge GA: Discharge Data*. Bainbridge, Georgia. April 2016.

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

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TABLES

Table 3-1: Well Gauging Data for March 2016 Monitoring Event

Well ID # (Well Diameter, in.)	TOC Elevation*	DTW	DTB**	Groundwater Surface Elevation	Notes
	ft.	ft.	ft.	ft.	
MW-1 (2)	105.22	24.95	32.80	80.27	
MW-1A (2)	105.33	25.07	36.81	80.26	
MW-2 (2)	98.86	18.70	29.20	80.16	
MW-3 (2)	97.12	17.20	27.32	79.92	
MW-4U (2)	103.51	23.23	32.38	80.28	
MW-5A (2)	96.67	17.00	22.82	79.67	
MW-5D (2)	96.12	16.46	24.88	79.66	
MW-6 (2)	102.25	22.32	51.81	79.93	
MW-7 (2)	98.10	17.72	22.25	80.38	
MW-8 (2)	93.54	14.05	21.96	79.49	
MW-9 *** (2)	NL	NA	NA	NA	
MW-10 (2)	99.83	19.61	30.75	80.22	the water level rose up when the well cap was removed, waited until the water level stabilized before water level was measured
MW-11 (2)	100.87	20.40	27.50	80.47	
MW-12 (2)	94.06	15.13	22.53	78.93	
MW-13 (2)	93.55	14.46	22.03	79.09	
MW-14 (2)	102.11	22.14	71.50	79.97	
MW-15 (2)	98.13	18.46	21.51	79.67	
MW-16 (2)	97.15	16.80	23.83	80.35	
MW-17 (2)	93.65	13.93	60.45	79.72	
MW-18 (2)	95.56	15.63	32.83	79.93	air pressure was released upon removal of the well cap
MW-19 (2)	96.6	16.63	32.43	79.97	
MW-20 (2)	96.57	16.21	32.88	80.36	
MW-21 (2)	97.55	17.19	31.50	80.36	
MW-22 (2)	98.88	18.45	33.54	80.43	
MW-23 (2)	93.61	14.44	24.00	79.17	
MW-24 (2)	93.07	14.04	22.81	79.03	

Notes:

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

* TOC elevations are based on a survey conducted by Donaldson, Garrett, & Associates, Inc. in April 2015.

** Depth to bottom of all wells except MW-17 were measured utilizing the interface meter after purging in March 2016. MW-17 was similarly gauged on 9/14/15.

*** Well Not Located

TOC = Top of Casing

DTW = Depth to Water below TOC

DTB = Depth to Bottom below TOC

NA = Not Applicable

NM = Not Measured

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

Well ID # (Well Diameter, in.)	Sample Date	Groundwater Quality Field Parameters					
		Temp (Celsius)	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	0.72	2.20	4.58
	3/25/2014	19.10	4.07	377.00	0.55	0.00	4.99
	9/4/2014	23.21	3.70	382.00	0.63	4.50	4.99
	3/3/2015	18.94	3.06	354.00	0.51	0.00	2.65
	9/15/2015	23.20	3.48	321.00	0.41	0.00	2.64
	3/1/2016	19.61	3.19	301.00	0.53	0.00	1.31
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
	3/25/2014	17.97	4.01	400.00	0.761	0.00	2.26
	9/4/2014	22.15	3.78	372.00	0.818	35.40	3.61
	3/3/2015	20.02	3.17	334.00	0.704	0.00	1.80
	9/15/2015	21.78	3.48	331.00	0.51	0.00	1.80
	3/1/2016	19.42	3.21	318.00	0.806	0.00	0.82
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
	3/25/2014	17.33	4.84	295.00	0.065	0.00	4.16
	9/3/2014	18.94	3.86	226.00	0.075	0.00	1.16
	3/2/2015	18.38	4.14	275.00	0.066	0.00	2.58
	9/14/2015	19.41	4.45	268.00	0.076	0.00	0.79
	2/29/2016	18.51	4.44	244.00	0.053	0.00	5.25
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
	3/25/2014	19.18	5.57	220.00	0.065	0.00	6.43
	9/4/2014	19.98	4.65	231.00	0.072	17.50	4.97
	3/3/2015	16.34	4.47	665.00	0.077	0.00	7.00
	9/15/2015	20.00	4.78	223.00	0.067	0.00	4.04
	3/1/2016	18.33	4.26	221.00	0.070	0.00	7.80

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

Well ID # (Well Diameter, in.)	Sample Date	Groundwater Quality Field Parameters					
		Temp (Celsius)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
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
	3/25/2014	20.85	4.44	308.00	0.262	0.00	3.76
	9/4/2014	20.30	3.68	309.00	0.198	0.00	4.95
	3/3/2015	17.80	3.48	325.00	0.284	0.00	4.80
	9/15/2015	21.52	3.91	280.00	0.169	0.00	3.93
	3/1/2016	19.97	3.41	278.00	0.218	0.00	5.41
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
	3/26/2014	20.00	4.22	260.00	0.608	0.00	3.24
	9/5/2014	23.84	4.03	308.00	0.829	0.00	1.47
	3/5/2015	22.58	3.37	259.00	1.070	0.00	3.37
	9/17/2015	26.67	3.96	271.00	0.680	0.00	0.91
	3/2/2016	22.71	4.14	153.00	0.401	0.00	4.20
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
	3/26/2014	18.91	3.53	275.00	1.870	0.00	0.60
	9/3/2014	24.94	3.62	300.00	0.988	0.00	0.71
	3/5/2015	21.45	3.17	286.00	2.040	0.00	1.30
	9/17/2015	26.48	3.84	270.00	0.465	0.00	0.37
	3/2/2016	22.62	3.37	213.00	2.010	0.00	2.95

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

Well ID # (Well Diameter, in.)	Sample Date	Groundwater Quality Field Parameters					
		Temp (Celsius)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
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
	3/26/2014	21.58	5.80	61.00	1.760	15.20	0.71
	9/4/2014	22.84	5.70	65.00	1.870	86.00	0.66
	3/4/2015	22.52	5.67	43.00	1.610	2.70	0.45
	9/16/2015	21.93	5.41	46.00	1.710	0.00	0.47
	3/2/2016	21.05	5.10	22.00	1.770	1.80	0.33
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
	3/26/2014	18.95	3.91	284.00	0.541	0.00	1.63
	9/3/2014	24.29	3.45	304.00	0.926	0.00	1.47
	3/4/2015	23.72	7.91	288.00	0.524	0.00	1.25
	9/16/2015	25.04	3.99	240.00	0.477	0.00	0.98
	3/3/2016	21.18	4.10	242.00	0.332	2.70	2.11
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	0.64	0.00	1.31
	3/26/2014	18.72	3.93	274.00	0.734	1.10	3.57
	9/3/2014	27.23	3.41	311.00	0.730	0.00	1.29
	3/5/2015	21.74	3.25	244.00	1.220	0.00	1.31
	9/16/2015	27.08	3.91	248.00	0.642	0.00	1.85
	3/2/2016	22.41	3.59	206.00	0.747	0.00	1.29

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

Well ID # (Well Diameter, in.)	Sample Date	Groundwater Quality Field Parameters					
		Temp (Celsius)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
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
	3/25/2014	NL	NL	NL	NL	NL	NL
	9/3/2014	NL	NL	NL	NL	NL	NL
	9/15/2015	NL	NL	NL	NL	NL	NL
	3/2/2016	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
	3/26/2014	20.16	3.88	320.00	0.823	0.00	1.71
	9/3/2014	23.99	3.63	288.00	0.911	0.00	1.43
	3/5/2015	20.05	3.11	297.00	1.430	0.00	2.08
	9/17/2015	23.42	3.83	290.00	0.708	0.00	1.14
	3/3/2016	21.85	3.80	257.00	0.744	7.50	2.10
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
	3/25/2014	18.20	4.19	351.00	0.190	6.70	5.06
	9/3/2014	20.20	3.30	300.00	0.182	0.00	4.85
	3/5/2015	18.46	3.44	320.00	0.181	0.00	4.68
	9/14/2015	21.22	3.92	311.00	0.155	0.00	4.81
	2/29/2016	19.32	3.61	296.00	0.156	0.00	4.66
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
	3/26/2014	18.64	5.93	213.00	1.070	0.00	1.38
	9/2/2014	23.31	6.87	117.00	0.619	0.00	0.62
	3/4/2015	22.47	5.89	101.00	0.846	0.00	3.27
	9/16/2015	24.46	6.93	65.00	0.894	0.00	0.44
	3/2/2016	20.75	5.81	40.00	1.070	0.00	0.89

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

Well ID # (Well Diameter, in.)	Sample Date	Groundwater Quality Field Parameters					
		Temp (Celsius)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
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
	3/26/2014	17.75	4.95	77.00	0.42	0.00	0.91
	9/2/2014	22.57	5.93	211.00	0.48	0.00	1.69
	3/5/2015	18.20	4.53	68.00	0.93	0.00	1.45
	9/16/2015	20.62	5.15	109.00	0.48	0.00	1.28
	3/2/2016	18.59	4.81	94.00	0.45	0.00	1.45
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
	3/25/2014	18.53	7.40	-146.00	0.267	5.80	0.66
	9/4/2014	22.27	7.51	-163.00	0.290	1.90	0.51
	3/4/2015	21.41	7.67	-180.00	0.250	0.00	2.65
	9/16/2015	22.01	7.35	-139.00	0.252	0.00	0.60
	3/2/2016	20.78	6.88	-115.00	0.242	0.00	0.42
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
	3/26/2014	16.50	4.30	292.00	4.94	0.00	1.32
	9/3/2014	24.75	4.29	250.00	3.77	0.00	1.75
	3/4/2015	21.30	4.51	237.00	2.60	0.00	0.68
	9/15/2015	23.92	4.09	236.00	3.44	0.00	0.43
	3/1/2016	22.07	4.65	156.00	5.54	0.00	0.61
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
	3/26/2014	19.59	4.96	236.00	0.030	0.00	4.99
	9/3/2014	28.38	4.75	259.00	0.026	0.00	4.33
	3/3/2015	20.72	4.53	183.00	0.025	0.00	6.34
	9/16/2015	23.92	4.59	199.00	0.025	0.00	4.43
	3/3/2016	20.44	4.82	203.00	0.030	8.00	6.91

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

Well ID # (Well Diameter, in.)	Sample Date	Groundwater Quality Field Parameters					
		Temp (Celsius)	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
	3/27/2014	19.70	7.50	2.00	0.413	9.60	0.48
	9/2/2014	25.89	7.17	-118.00	0.401	11.10	0.40
	3/3/2015	20.04	6.74	-58.00	0.498	0.00	0.52
	9/14/2015	21.63	7.20	105.00	0.460	17.90	0.55
	3/2/2016	19.41	6.74	93.00	0.458	0.00	0.42
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
	3/26/2014	21.36	6.79	124.00	1.880	0.80	1.36
	9/4/2014	25.62	6.27	221.00	1.910	0.80	0.60
	3/4/2015	22.61	6.68	112.00	1.430	7.90	0.68
	9/15/2015	24.44	6.45	134.00	1.480	19.50	0.37
	3/1/2016	23.75	6.05	75.00	1.850	0.00	0.51
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
	3/25/2014	20.52	4.31	282.00	1.380	95.00	0.85
	9/3/2014	25.69	4.00	313.00	1.320	13.20	0.63
	3/4/2015	21.20	3.95	331.00	1.130	98.10	0.58
	9/15/2015	23.40	3.64	322.00	0.936	5.30	0.60
	3/1/2016	22.56	3.51	303.00	0.974	72.00	0.53

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

Well ID # (Well Diameter, in.)	Sample Date	Groundwater Quality Field Parameters					
		Temp (Celsius)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
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
	3/27/2014	17.58	4.34	308.00	0.253	0.00	6.49
	9/5/2014	23.44	3.84	304.00	0.394	0.00	6.74
	3/5/2015	17.67	3.72	273.00	0.445	0.00	6.53
	9/17/2015	23.38	4.13	273.00	0.282	0.00	4.99
	3/3/2016	21.45	4.02	253.00	0.177	0.00	6.44
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
	3/27/2014	21.74	5.17	194.00	0.222	14.10	3.55
	9/5/2014	25.15	3.83	305.00	0.889	0.00	4.24
	3/5/2015	19.01	3.54	282.00	1.110	0.00	4.09
	9/17/2015	22.94	4.30	254.00	0.265	0.00	4.75
	3/3/2016	21.50	4.85	208.00	0.201	0.00	5.36
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
	3/27/2014	18.50	3.86	356.00	0.650	9.90	2.99
	9/5/2014	25.73	3.83	337.00	0.697	0.00	2.90
	3/6/2015	18.55	3.58	295.00	0.742	23.30	2.76
	9/17/2015	24.47	3.79	288.00	0.481	3.50	2.71
	3/3/2016	21.96	3.76	269.00	0.510	0.00	3.23

Table 3-2: Chronological Groundwater Quality Field Parameters Summary

Well ID # (Well Diameter, in.)	Sample Date	Groundwater Quality Field Parameters					
		Temp (Celsius)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
MW-23 (2)	7/8/2014	24.94	3.74	358.00	1.310	0.00	1.34
	9/2/2014	26.47	4.67	154.00	1.040	0.00	0.55
	3/5/2015	23.11	4.47	177.00	1.470	0.00	0.93
	9/17/2015	24.95	5.33	216.00	0.925	0.00	0.53
	3/3/2016	21.48	4.60	187.00	0.899	0.00	0.29
MW-24 (2)	3/3/2015	20.86	5.72	189.00	0.214	0.00	2.14
	9/14/2015	19.62	6.30	188.00	0.260	0.00	2.56
	3/2/2016	17.82	5.50	167.00	0.204	0.00	3.58

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 December 2013 to March 2016, 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 3-3: Groundwater Pesticides Data Summary

	Test 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	
	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	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag

Table 3-3: Groundwater Pesticides Data Summary

	Test 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	
	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	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag
MW-6	9/1/2001	1.840		1.39		2.22		0.31		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/1/2002	1.200		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	1.700		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	2.360		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	2.500		2.5		7.9		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	1.05	U	5.26	U	1.05	U	0.526	U	0.526	U	1.05	U	52.6	U
	4/5/2012	1.400		1.6		2.54	UBL	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	0.505	U	2.53	U	0.505	U	0.253	U	0.253	U	0.505	U	25.3	U
	11/20/2012	1.400	*	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	0.0049	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	1.290		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	1.230		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	1.510	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	0.0035	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	1.680		1.67		2.71	DX	0.035		0.0142	U	0.0113	U	0.00922	U	0.00878	U	0.000522	J	0.009	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	0.008	U	0.00556	U
	3/26/2014	0.797		1.16		1.98		0.00173	U	0.00562	U	0.00329	U	0.00145	U	0.00101	U	0.00153	U	0.0061	U	0.00147	U	0.00179	U	0.00304	U	0.00117	U	0.03500	U	0.0018	U	0.00347	U	0.00494	U	0.00333	U	0.00144	U	0.0777	U
	9/8/2014	0.907	D	1.15	D	1.81	D	0.00158	U	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/4/2015	0.348		0.594	F	1.17	DF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
	9/16/2015	0.92		1.3		2.1	P	0.014	J P	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0097	U	0.00610	U	0.09400	U	0.09400	U	0.00460	U	0.40	U
	3/7/2016	0.77		1.5		1.9	P	0.01	J P	0.00700	U	0.0071	U	0.0036	U	0.0035	U	0.00370	U	0.0050	U	0.0052	U	0.0041	U	0.0062	U	0.0050	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.04500	U	0.39	U
MW-7	9/1/2001	20.510		3.23		1.35		2.66		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	6/1/2002	4.300		1.2		1		1.3		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	4/14/2008	0.580		0.4		0.021	J	0.032	J	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.052	U	0.52	U
	8/5/2009	0.137		0.564		0.051	U	0.129		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	0.051	U	**0.00823**	J	0.101	U	5.05	U
	3/27/2013	0.030	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	0.002	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	0.061		0.365		0.002	U	0.0332	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.023		0.31		0.0126	J	0.0487		0.01420	U	0.0113	U	0.00922	U	0.00878	U	**0.00184**	J	0.009	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	0.008	U	0.00556	U
	3/26/2014	0.018		0.264		0.00133	U	0.034		0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/3/2014	0.0364	J	0.409		0.00198	U	0.0660		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/4/2015	0.0101	U	0.427	F	0.0132	JF	0.0334	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	UF	0.423	U
	9/16/2015	0.0046	J P	0.23		0.0074	U	0.012	J	0.00700	U	0.0071	U	0.00380	J P	0.00350	U	0.00370	U	0.005	U	0.00520	U	0.00410	U	0.00620	U	0.00500	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00450	U	0.39	U
	3/7/2016	0.0130	J	0.14		0.0075	U	0.0036	U	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
MW-8	9/2/2001	0.100	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	0.310		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	0.210		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	0.032	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	0.0026	U	0.00280	U	0.00240	U	**0.00961**	J	0.0035	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	0.0113	U	0.00922	U	0.00878	U	**0.0101**	J	0.009	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	0.008	U	0.00556	U
	3/26/2014	0.061		0.829		0.0899		0.0392		0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/8/2014	0.179		1.31	D	0.272		0.145		0.00287	U	0.00257	U	0.00277	U	0.00238	U	**0.0148**	J	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/5/2015	0.013	J	0.542	F	0.0231	J F	0.0108	J	0.00180	U	0.0026	U	0.00280	U	0.00240	U	**0.0071**	J	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/16/2015	0.18		1.2		0.28		0.14		0.00710	U	0.0072	U	0.00370	U	0.00350	U	**0.0087**	J	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
	3/7/2016	0.043	J	1.0		0.056		0.03		0.007	U	0.0071	U	0.00370	U	0.00350	U	**0.0180**	J	0.0051	U	0.00520	U	0.00420	U	0.00620	U	0.00510	U	0.00690	U	0.0097	U	**0.00660**	J	**0.03**	J	0.09400	U	0.09400	U	0.40	U
MW-9	9/1/2001	0.770		5.01		0.82		0.42		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NL	
	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	
	3/25/2014	NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL	
	9/4/2014	NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL	
	3/5/2015	NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL	
	9/15/2015	NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL	
	3/7/2016	NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL	
MW-10	4/1/2002	1.900		9		3.7		0.86		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM	
	6/3/2002	1.500	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	2.000		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	1.450		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	1.200		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	1.360		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	0.710		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		8.6	D	0.511		0.307		0.346		0.0026	U	0.00280	U	0.00240	U	**0.00961**	J	0.0035	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		0.064	U	0.051	U	0.04150	U	0.03950	U	**0.00725**	J	0.0405	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	0.025	U
	3/26/2014	0.315		0.00235	U	0.289		0.147		0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.00151	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/3/2014	0.443		7.62	D	0.489		0.189		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/5/2015	0.243		4.75	DF	0.294	F	0.111		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	U	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/17/2015	0.48		7.1		0.48	P	0.22		0.00700	U	0.0071	U	0.37000	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00620	U	0.00510	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00460	U	0.40	U
	3/7/2016	0.40		6.8		0.38	P	0.18		0.00690	U	0.0070	U	0.00360	U	0.00340	U	0.00370	U	0.0050	U	0.00520	U	0.00410	U	0.00620	U	0.00500	U	0.00680	U	0.0096	U	0.00600	U	0.00930	U	0.09300	U	0.00450	U	0.39	U
MW-11	4/1/2002	0.100	U	0.1	U	0.1	U	0.1	U	NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		NM		93		NM		NM		NM		NM	
	4/16/2008	0.010	U	0.024	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	0.51	U
	7/14/2011	0.050	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	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.008	U	0.00714	U	0.00735	U	0.00714	U	0.01310	U	0.0104	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	0.0051	U
	3/25/2014	0.003	U	0.027		0.00133	U	0.00171	U	0.00556	U	0.00326	U	0.00144	U	0.00100	U	0.001510	U	0.00604	U	0.00146	U	0.00177	U	0.00301	U	0.00116	U	0.03470	U	0.00178	U	0.00344	U	0.00489	U	0.00329	U	0.00143	U	0.0769	NM
	9/3/2014	0.0101	U	0.0181	J	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/2/2015	0.0101	UK	0.0108	JKF	0.002	UKF	0.0016	UK	0.00290	UK	0.0026	UK	0.00280	UK	0.00240	UK	0.00430	UK	0.0035	UK	0.00460	UK	0.00450	UK	0.00370	UK	0.00700	UKF	0.00490	UK	0.0288	UK	0.00860	UKF	0.00180	UK	0.00220	UK	0.00450	UK	0.423	UK
	9/14/2015	0.0034	U	0.015	J	0.0075	U	0.0036	U	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
	3/7/2016	0.0033	U	0.0089		0.0073	U	0.0035	U	0.00700	U	0.0071	U	0.00360	U	0.00340	U	0.00370	U	0.0050	U	0.00520	U	0.00410	U	0.00620	U	0.00500	U	0.00690	U	0.0096	U	0.00600	U	0.09300	U	0.09300	U	0.00450	U	0.39	U

Table 3-3: Groundwater Pesticides Data Summary

	Test 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	
	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	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag

Table 3-3: Groundwater Pesticides Data Summary

	Test 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	
	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	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag	Conc (µg/L)	Flag
MW-18	8/6/2009	0.051	U	**0.375**		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	0.051	U	0.051	U	0.101	U	5.05	U
	7/15/2011	0.050	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	**0.025**	J	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
	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	0.002	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	0.010	U	**0.409**	J	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	**0.00680**	J	0.0035	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	0.076	U	**0.463**		0.0742	U	0.0722	U	0.13200	U	0.105	U	0.08560	U	0.08140	U	0.00464	U	0.0835	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
	3/26/2014	0.030	U	**0.356**		0.0127	U	0.0164	U	0.05350	U	0.0313	U	0.01380	U	0.00963	U	0.01450	U	0.0581	U	0.01400	U	0.01700	U	0.02890	U	0.01120	U	0.33300	U	0.0171	U	0.03310	U	0.04700	U	0.48100	U	0.01370	U	0.74	U
	9/4/2014	0.010	U	**0.102**		0.00198	U	**0.00327**	J	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.004260	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	UX	0.00218	U	0.00446	U	0.419	U
	3/4/2015	0.010	U	**0.111**	F	0.00198	U	0.00158	U	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.004260	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	UF	0.00485	U	0.0285	U	0.00851	UF	0.00178	U	0.00218	U	0.00446	U	0.419	U
	9/15/2015	0.0034	U	**0.19**		0.0074	U	0.0036	U	0.00700	U	0.0071	U	0.00370	U	0.00350	U	0.003800	U	0.005	U	0.00520	U	0.00420	U	0.00620	U	0.00500	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00460	U	0.40	U
	3/7/2016	0.0034	U	**0.18**		0.0075	U	0.0036	U	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.003800	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
MW-19	8/6/2009	**0.009**	J	**0.113**		0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	**0.012**	J	0.101	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
	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	0.101	U	0.505	U	0.101	U	0.051	U	0.051	U	0.101	U	5.05	U
	3/25/2013	0.002	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	0.002	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	0.010	U	0.0023	U	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.076	U	0.0718	U	0.0738	U	0.0718	U	0.13100	U	0.105	U	0.08510	U	0.08100	U	0.00462	U	0.0831	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
	3/27/2014	0.003	U	**0.074**		0.0013	U	**0.0109**		0.00545	U	0.0032	U	0.00141	U	0.00098	U	0.00148	U	0.00592	U	0.00143	U	0.00174	U	0.00295	U	0.00114	U	0.03400	U	0.00175	U	0.00337	U	0.00480	U	0.00323	U	0.00140	U	0.0754	U
	9/4/2014	0.010	U	**0.0762**		**0.00515**	J	**0.00891**	J	0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.004260	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	..00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/4/2015	0.010	U	**0.0288**	JF	**0.0175**	JF	0.00784	J	0.00291	U	0.00261	U	0.00281	U	0.00241	U	0.004320	U	0.00352	U	0.00462	U	0.00452	U	0.00372	U	0.00704	UF	0.00492	U	0.0289	U	0.00864	UF	0.00181	U	0.00221	U	0.00452	U	0.425	U
	9/15/2015	0.0034	U	**0.010**	J P	0.0075	U	0.0036	U	0.00710	U	0.0072	U	0.00370	F1	0.00350	U	0.003800	F2	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
	3/7/2016	0.0034	U	**0.058**		0.0075	U	0.0036	U	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.003800	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
MW-20	8/6/2009	**2.500**	U	**25.7**		**2.5**	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	5.00	U	5	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00	U	25	U	5.00	U	2.5	U	2.5	U	5.00	U	250	U
	7/12/2011	**0.460**	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	0.005	U	**1.9**	*	0.0048	U	0.0057	U	0.0048	U	0.0048	U	0.0048	U	0.0048	U	0.0048	U	0.0048	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	0.010	U	**2.21**	D	0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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**		**0.148**	U	0.144	U	0.26400	U	0.21	U	0.17100	U	0.16300	U	**0.01880**	J	0.167	U	0.23300	U	0.18600	U	0.17100	U	0.20000	U	0.23100	U	0.216	U	0.16700	U	0.14400	U	0.16700	U	0.14800	U	0.103	U
	3/27/2014	0.031	U	**2.64**		**0.0229**		0.0169	U	0.05510	U	0.0323	U	0.01420	U	0.00991	U	0.01500	U	0.0598	U	0.01440	U	0.01750	U	0.02980	U	0.01150	U	0.34300	U	0.0176	U	0.03410	U	0.04840	U	0.03260	U	0.01410	U	0.762	U
	9/3/2014	**0.0803**		**12.4**	D	**0.469**		**0.074**		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.004260	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/5/2015	**0.0106**	J	**4.71**	DF	**0.0521**	F	**0.0171**	J	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.004300	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/17/2015	**0.11**		**13**		**0.98**		**0.034**	J P	0.00700	U	0.0071	U	0.00360	U	0.00350	U	0.003700	U	0.005	U	0.00520	U	0.00410	U	0.00620	U	**0.0092**	J P	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	**0.012**	J	0.39	U
	3/7/2016	**0.012**	J	**1.3**		**0.018**	J	0.0036	U	0.00710	U	0.0071	U	**0.00810**	J P	0.00350	U	0.003800	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.0051	U	0.00700	U	0.0097	U	0.00610	U	0.09400	U	0.09400	U	0.0046	U	0.40	U
MW-21	8/6/2009	**0.576**		**7.46**		**0.5**	U	**0.35**	J	0.5	U	0.5	U	0.5	U	0.5	U	1.0	U	1	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	1.00	U	0.5	U	0.5	U	1.00	U	50	U
	7/12/2011	**0.210**	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	**0.130**		**6.6**	*	**0.46**	J*	**0.051**		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	0.0096	U	0.0096	U	0.0048	U	0.0048	U	0.0096	U	0.96	U
	3/27/2013	0.002	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	0.002	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	0.010	U	**0.286**		0.002	U	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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	0.076	U	**2.53**		0.0742	U	0.0722	U	0.13200	U	0.105	U	0.08560	U	0.08140	U	0.00464	U	0.0835	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
	3/27/2014	0.031	U	**0.856**		0.0133	U	0.0171	U	0.05560	U	0.0326	U	0.01440	U	0.01000	U	0.01510	U	0.0604	U	0.01460	U	0.01770	U	0.03010	U	0.01160	U	0.34700	U	0.0178	U	0.03440	U	0.04890	U	0.03290	U	0.01430	U	0.769	U
	9/5/2014	**0.359**		**5.52**	D	**0.574**		**0.280**		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.004260	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/5/2015	**0.081**		**3.44**	DF	**0.283**	F	**0.088**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	**0.02090**	J	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/17/2015	0.0034	U	**1.8**		0.0074	U	**0.0047**	J P	0.00700	U	0.0071	U	0.00370	U	0.00350	U	0.00380	U	0.005	U	0.00520	U	**0.013**	J	0.00620	U	0.00500	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00450	U	0.40	U
	3/7/2016	0.0034	U	**1.7**		**0.01**	J	0.0036	U	0.00710	U	0.0072	U	**0.00620**	J P	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.0042	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
MW-22	4/5/2012	**1.520**	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	**1.300**	*	**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	**1.090**		**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	**1.100**	D	**33.7**	DX	**0.725**		**0.382**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	**0.0521**	J	0.0035	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**		**0.489**		0.2610	U	0.208	U	0.1690	U	0.1610	U	**0.03040**	J	0.165	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
	3/27/2014	**0.284**		**14.3**		**0.212**		**0.166**		0.0535	U	0.0313	U	0.0138	U	0.0096	U	0.01450	U	0.0581	U	0.0140	U	0.0170	U	0.0289	U	0.0112	U	0.3330	U	0.0171	U	0.0331	U	0.0470	U	0.0317	U	0.0137	U	0.7400	
	9/5/2014*[4]	**1.01**	D	**37.098**	D	**22.4**	D	**0.365**		0.00287	U	0.00257	U	0.00277	U	0.00238	U	0.00426	U	0.00347	U	0.00455	U	0.00446	U	0.00366	U	0.00693	U	0.00485	U	0.0285	U	0.00851	U	0.00178	U	0.00218	U	0.00446	U	0.419	U
	3/6/2015	**0.48**		**21.6**	DF	**9.53**	DF	**0.204**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/17/2015	**0.58**		**32**		**4.5**		**0.28**	F1	0.00660	U	0.0067	U	**0.0048**	U	**0.021**	J P	0.00330	U	**0.048**	P	0.0048	U	0.00490	F1	0.00390	F1	0.00490	U	0.00650	F1	0.0091	F1	0.00570	U	0.08900	U	0.08900	U	**0.056**		**4.7**	
	3/7/2016	**0.61**		**19**		**1.9**	J	**0.35**		0.00700	U	0.0071	U	0.0037	U	0.00350	U	0.0038	U	0.0051	U	0.00530	U	0.00420	U	0.00620	U	**0.02800**	J	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	**0.041**	J	0.40	U
MW-23	9/5/2014	**0.0227**	J	**5.17**	D	**0.0174**	J	**0.0517**		0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	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
	3/5/2015	**0.0189**	J	**4.63**	DF	**0.0316**	JF	**0.0528**		0.00290	U	0.0026	U	0.00290	U	0.00430	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00460	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/17/2015	**0.012**	J	**4.5**		**0.011**	J	**0.051**	P	0.00700	U	0.0071	U	0.00370	U	0.00350	U	0.00380	U	0.005	U	0.00520	U	0.00410	U	0.00620	U	0.00500	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00450	U	0.40	U
	3/7/2016	**0.017**	J	**5.1**		**0.011**	J P	**0.048**	J	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U
MW-24	3/3/2015	0.0101	U	**0.0041**	JF	0.002	UF	0.0016	U	0.00290	U	0.0026	U	0.00280	U	0.00240	U	0.00430	U	0.0035	U	0.00460	U	0.00450	U	0.00370	U	0.00700	UF	0.00490	U	0.0288	U	0.00860	UF	0.00180	U	0.00220	U	0.00450	U	0.423	U
	9/14/2015	0.0034	U	**0.009**	U	0.0074	U	0.0036	U	0.00700	U	0.0071	U	0.00370	U	0.00350	U	0.00380	U	0.005	U	0.00520	U	0.00410	U	0.00620	U	0.00500	U	0.00690	U	0.0097	U	0.00600	U	0.09400	U	0.09400	U	0.00450	U	0.39	U
	3/7/2016	0.0034	U	0.0091	U	0.0075	U	0.0036	U	0.00710	U	0.0072	U	0.00370	U	0.00350	U	0.00380	U	0.0051	U	0.00530	U	0.00420	U	0.00630	U	0.00510	U	0.00700	U	0.0098	U	0.00610	U	0.09500	U	0.09500	U	0.00460	U	0.40	U

Sources: Analytical results from March 2013 to March 2016 are from samples directly collected by EIC. Historical data prior to March 2013 from CH2MHill 2008, 2009, and 2012 Groundwater Reports and Law Engineering 2001-2003 Compliance Status Reports and Addendums

Notes:

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 limit.
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 laboratory QC deficiency was observed in quality control review of data
I² = Relative percent difference exceeded lab control limits
P = The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
F1 = MS and/or MSD recovery is outside acceptance limits
F2= MS/MSD RPD exceeds control limits

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 correlation.
*[4] = Result for beta-BHC was adjusted based on tubing rinsate sample, see Xenco lab report number 492804

Table 3-4: Historical Groundwater Potentiometric Surface Elevations

Well ID # (Well Diameter, in.)	Current TOC Elevation (ft.)	Groundwater Potentiometric Surface Elevation (ft.)																MW Min.*	MW Max.*	MW Range*	MW Avg.*	MW Var.*
		Aug-99	Sep-01	Apr-02	Apr-08	Aug-09	Jul-11	Apr-12	Mar-13	Jun-13	Sep-13	Dec-13	Mar-14	Sep-14	Mar-15	Sep-15	Mar-16					
MW-1 (2)	105.22	NM	NM	NM	79.59	78.22	76.32	77.48	79.63	78.07	79.60	78.00	79.77	77.51	79.11	77.29	80.27	76.32	80.27	3.95	78.53	1.46
MW-1A (2)	105.33	76.54	77.22	77.38	79.57	78.47	76.33	77.48	79.62	78.06	79.58	77.97	79.88	77.50	79.11	77.29	80.26	76.33	80.26	3.93	78.27	1.57
MW-2 (2)	98.86	76.48	77.13	77.36	79.45	78.16	78.25	NM	79.54	77.97	79.41	77.89	79.83	77.39	78.98	77.20	80.16	76.48	80.16	3.68	78.35	1.30
MW-3 (2)	97.12	76.42	77.11	77.39	NL	NL	NL	NL	NL	NL	79.20	77.78	79.69	77.28	78.95	77.19	79.92	76.42	79.92	3.50	78.09	1.52
MW-4U (2)	103.51	NI	77.12	77.3	79.64	78.36	NM	77.51	79.60	78.16	79.59	77.98	79.81	77.55	78.99	77.25	80.28	77.12	80.28	3.16	78.51	1.23
MW-5A (2)	96.67	NI	NM	NM	78.96	77.91	76.35	77.32	79.12	77.71	79.07	77.71	79.38	77.24	78.94	77.22	79.67	76.35	79.67	3.32	78.20	1.08
MW-5D (2)	96.12	NI	77.1	77.36	78.40	77.92	76.37	77.36	79.16	77.77	79.10	77.76	79.36	77.31	78.94	77.24	79.66	76.37	79.66	3.29	78.05	0.97
MW-6 (2)	102.25	NI	77.17	77.7	79.24	78.70	76.40	77.46	79.53	77.87	79.25	77.81	79.59	77.39	78.96	77.30	79.93	76.40	79.93	3.53	78.29	1.17
MW-7 (2)	98.1	NI	77.09	77.49	79.74	78.50	DRY	77.56	79.67	78.11	79.75	78.19	80.01	77.58	79.41	77.42	80.38	77.09	80.38	3.29	78.64	1.31
MW-8 (2)	93.54	NI	76.6	77.4	78.75	77.79	76.34	77.25	78.64	77.52	78.88	77.69	79.20	77.22	78.90	77.18	79.49	76.34	79.49	3.15	77.92	0.96
MW-9 (2)	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NA	NA	NA	NA	NA	NA
MW-10 (2)	99.83	NI	NI	77.45	79.75	78.52	76.33	77.58	79.72	78.10	79.76	78.12	80.07	77.58	79.08	77.51	80.22	76.33	80.22	3.89	78.56	1.47
MW-11 (2)	100.87	NI	NI	77.46	79.88	76.67	79.57	77.6	79.83	78.16	79.83	78.1	80.1	77.58	79.50	77.39	80.47	76.67	80.47	3.80	78.72	1.61
MW-12 (2)	94.06	NI	NI	77.35	78.23	77.39	76.25	76.88	78.39	77.06	78.14	77.36	78.51	76.80	78.66	76.83	78.93	76.25	78.93	2.68	77.63	0.70
MW-13 (2)	93.55	NI	NI	77.38	78.10	77.13	DRY	DRY	78.53	76.98	77.87	76.98	78.31	76.58	78.47	76.71	79.09	76.58	79.09	2.51	77.68	0.68
MW-14 (2)	102.11	NI	NI	NI	79.30	78.16	76.36	77.45	78.72	76.72	78.97	77.95	78.59	76.86	79.11	77.33	79.97	76.36	79.97	3.61	78.11	1.24
MW-15 (2)	98.13	NI	NI	NI	78.88	78.01	DRY	77.40	79.24	78.10	79.18	78.10	79.35	77.37	78.93	77.30	79.67	77.30	79.67	2.37	78.46	0.72
MW-16 (2)	97.15	NI	NI	NI	79.66	78.50	76.45	77.56	79.73	78.18	79.91	78.12	79.99	77.71	79.22	77.50	80.35	76.45	80.35	3.90	78.68	1.46
MW-17 (2)	93.65	NI	NI	NI	79.03	77.90	76.24	75.26	79.17	77.58	79.04	77.80	79.30	77.25	79.12	77.23	79.72	75.26	79.72	4.46	78.05	1.78
MW-18 (2)	95.56	NI	NI	NI	NI	78.15	76.43	77.42	79.39	77.91	79.42	77.92	79.56	77.43	79.02	77.38	79.93	76.43	79.93	3.50	78.33	1.22
MW-19 (2)	96.6	NI	NI	NI	NI	78.07	76.35	77.35	79.40	77.80	79.47	77.89	79.68	77.39	79.06	77.30	79.97	76.35	79.97	3.62	78.31	1.35
MW-20 (2)	96.57	NI	NI	NI	NI	78.48	76.38	77.49	79.68	78.08	79.73	78.08	79.93	77.57	79.29	77.47	80.36	76.38	80.36	3.98	78.55	1.53
MW-21 (2)	97.55	NI	NI	NI	NI	78.41	76.34	77.53	79.71	78.05	79.79	78.08	79.98	77.53	79.36	77.44	80.36	76.34	80.36	4.02	78.55	1.60
MW-22 (2)	98.88	NI	NI	NI	NI	NI	NM	77.47	79.74	78.10	79.75	78.12	79.96	77.57	79.28	77.50	80.43	77.47	80.43	2.96	78.79	1.33
MW-23 (2)	93.61	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	77.03	78.73	76.98	79.17	76.98	79.17	2.19	77.98	1.29
MW-24 (2)	93.07	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	78.72	76.86	79.03	76.86	79.03	2.17	78.20	1.38
Event Min.*[2]		76.42	76.60	77.30	78.10	76.67	76.24	75.26	78.39	76.72	77.87	76.98	78.31	76.58	78.47	76.71	78.93	**Global Min.*[3]**		75.26		
Event Max.*[2]		76.54	77.22	77.70	79.88	78.70	79.57	77.60	79.83	78.18	79.91	78.19	80.10	77.71	79.50	77.51	80.47	**Global Max.*[3]**		80.47		
Event Range*[2]		0.12	0.62	0.40	1.78	2.03	3.33	2.34	1.44	1.46	2.04	1.21	1.79	1.13	1.03	0.80	1.54	**Global Range*[3]**		5.21		
Event Avg.*[2]		76.48	77.07	77.42	79.19	78.07	76.65	77.32	79.35	77.82	79.32	77.89	79.56	77.34	79.03	77.25	79.91	**Global Avg.*[3]**		78.10		
Event Var.*[2]		0.00	0.04	0.01	0.31	0.25	0.78	0.26	0.19	0.17	0.27	0.08	0.26	0.08	0.06	0.04	0.22	**Global Var.*[3]**		1.26		

Notes:

NI - Not Installed

NL - Not Located

NA - Not Applicable

*** = Event Min, Max, Range, Avg., and Var.** - are the minimum, maximum, range, average, and total variance for each respective groundwater gauging event.

***[2] = MW Min., Max., Range, Avg., and Var.** - are the minimum, maximum, range, average, and total variance for each monitoring well throughout all gauging events from March 2013 to March 2016 where available.

***[3]= Global Min., Max., Range, Avg., and Var.** - are the minimum, maximum, range, average, and total variance for all monitoring wells throughout all events from March 2013 to March 2016

Groundwater elevations prior to March 2013 are derived from historical groundwater monitoring reports by previous consultants

Top of casing (TOC) elevations are based on the most recent survey by Donaldson Garrett and Associates in April 2015

Table 4-1: Mixing Model Initial Groundwater Concentrations

Constituents of Concern	Leading Edge Concentration, C_{gw1} (µg/L)	Maximum Concentration Recorded During the March 2016 Sampling Event C_{gw2} (µg/L)	Maximum Concentration Ever Recorded at the Site C_{gw3} (µg/L)
Alpha-BHC	1.70E-02	7.70E-01	2.05E+01
Beta-BHC	5.10E+00	1.90E+01	3.74E+01
Delta-BHC	1.10E-02	1.90E+00	2.24E+01
Gamma-BHC (Lindane)	4.80E-02	3.50E-01	2.66E+00

Notes:

Leading edge is assumed to be the concentration at MW-23 derived from the EIC March 2016 groundwater sampling results, recorded in the Seventh VIRP Semi-annual Report, Table 3-3

Maximum Site Concentration March 2016 is the highest observed concentration for each constituent at the site during the March 2016 groundwater sampling event, recorded in the Seventh VIRP Semi-annual Report, Table 3-3

Maximum Concentration Ever Recorded is the maximum concentration of each constituent recorded at any well for any event as reported in the Seventh VIRP Semi-annual Report, Table 3-3

Table 4-2: Modeled Downstream River Concentrations Under Average River Flow Conditons Compared to Water Quality Standards

Constituents of Concern	Georgia Instream Water Quality Standards (µg/L)*	National Primary Drinking Water Standards (µg/L)*[2]	Estimated Downstream River Concentrations		
			Utilizing Leading Edge C_{gw1}, C_{Rd1} (µg/L)	Utilizing Event Maximum C_{gw2}, C_{Rd2} (µg/L)	Utilizing Maximum Recorded C_{gw3}, C_{Rd3} (µg/L)
Alpha-BHC	4.90E-03	NA	1.02E-07	4.64E-06	1.24E-04
Beta-BHC	1.70E-02	NA	3.07E-05	1.15E-04	2.25E-04
Delta-BHC	NA	NA	6.63E-08	1.15E-05	1.35E-04
Gamma-BHC	1.80E+00	2.00E-01	2.89E-07	2.11E-06	1.60E-05

Notes:

Downstream river concentrations are based on the mixing formula below. The formula assumes that the groundwater flow discharging to the river from the entire length of the site is uniformly contaminated at each of the respective groundwater concentrations (Cgw).

NA = not applicable

$$C_{Rd} = C_{gw} * \left(\frac{Q_{gw}}{Q_{gw} + Q_{Ru}} \right) = C_{gw} * DF_{avg} \text{ , where } DF_{avg} = 6.03 * 10^{-6}$$

* EPD 2013. *Rules and Regulations for Water Quality Control, Chapter 391-3-6-.03*. Atlanta, Georgia. August 27, 2013. Standards considered under average river flow conditions per Chapter 4.e.iv

*[2] EPA, 2009. National Primary Drinking Water Regulations. Washington, DC. May 2009

Table 4-3: Modeled Downstream River Concentrations Under 1Q10 River Flow Conditions Compared to Water Quality Standards

Constituents of Concern	Georgia Instream Water Quality Standards (µg/L)*	National Primary Drinking Water Standards (µg/L)*[2]	Estimated Downstream River Concentrations		
			Utilizing Leading Edge C_{gw1}, C_{Rd1} (µg/L)	Utilizing Event Maximum C_{gw2}, C_{Rd2} (µg/L)	Utilizing Maximum Recorded C_{gw3}, C_{Rd3} (µg/L)
Gamma-BHC	9.50E-01	2.00E-01	1.97E-06	1.44E-05	1.09E-04

Notes:

Downstream river concentrations are based on the mixing formula below. The formula assumes that the groundwater flow discharging to the river from the entire length of the site is uniformly contaminated at each of the respective groundwater concentrations (Cgw).

$$C_{Rd} = C_{gw} * \left(\frac{Q_{gw}}{Q_{gw} + Q_{Ru}} \right) = C_{gw} * DF_{1Q10}, where\ DF_{1Q10} = 4.10 * 10^{-5}$$

* EPD 2013. *Rules and Regulations for Water Quality Control, Chapter 391-3-6-.03*. Atlanta, Georgia. August 27, 2013. Standards considered under 1Q10 river flow conditions per Chapter 4.e.ii

*[2] EPA, 2009. National Primary Drinking Water Regulations. Washington, DC. May 2009

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

SEVENTH VIRP SEMI-ANNUAL PROGRESS REPORT

FIGURES



Legend

- MONITORING WELL
- STILLING WELL
- MW-18 MONITORING WELL ID
- N.L. NOT LOCATED

SITE FEATURES

- BULKHEAD
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.
WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400

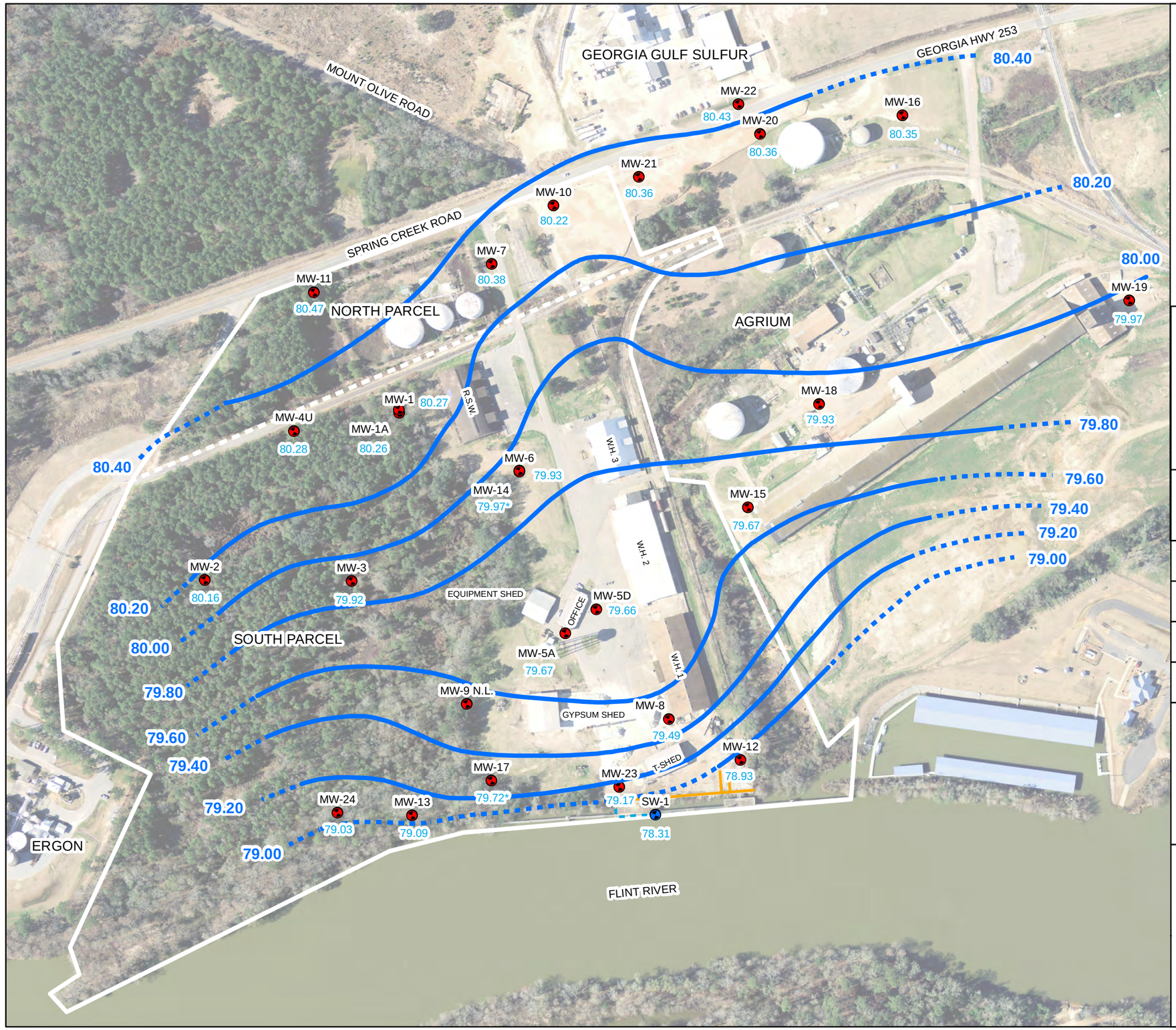
Feet

DESIGNED BY: W.G.	REVISIONS NO.	REVISIONS DATE	DATE: 4/17/2015
DRAWN BY: W.G.			SCALE: SEE BAR SCALE
			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 3-1: SITE MAP

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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



Legend

MONITORING WELL

STILLING WELL

MW-18 MONITORING WELL ID

N.L. NOT LOCATED

SITE FEATURES

BULKHEAD

NORTH AND SOUTH PARCEL DIVISION

BAINBRIDGE PARCEL LINES

PIER

GROUNDWATER CONTOURS

CONTOUR (0.2 FT.)

ESTIMATED CONTOUR

79.80 GROUNDWATER CONTOUR ELEVATION (FT., NAVD 88)

79.92 GROUNDWATER ELEVATION (FT., NAVD 88)

* GROUNDWATER ELEVATION NOT CONSIDERED AS WELL IS SCREENED GREATER THAN 50 FEET BELOW GROUND SURFACE

NOTES:

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PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.
WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400

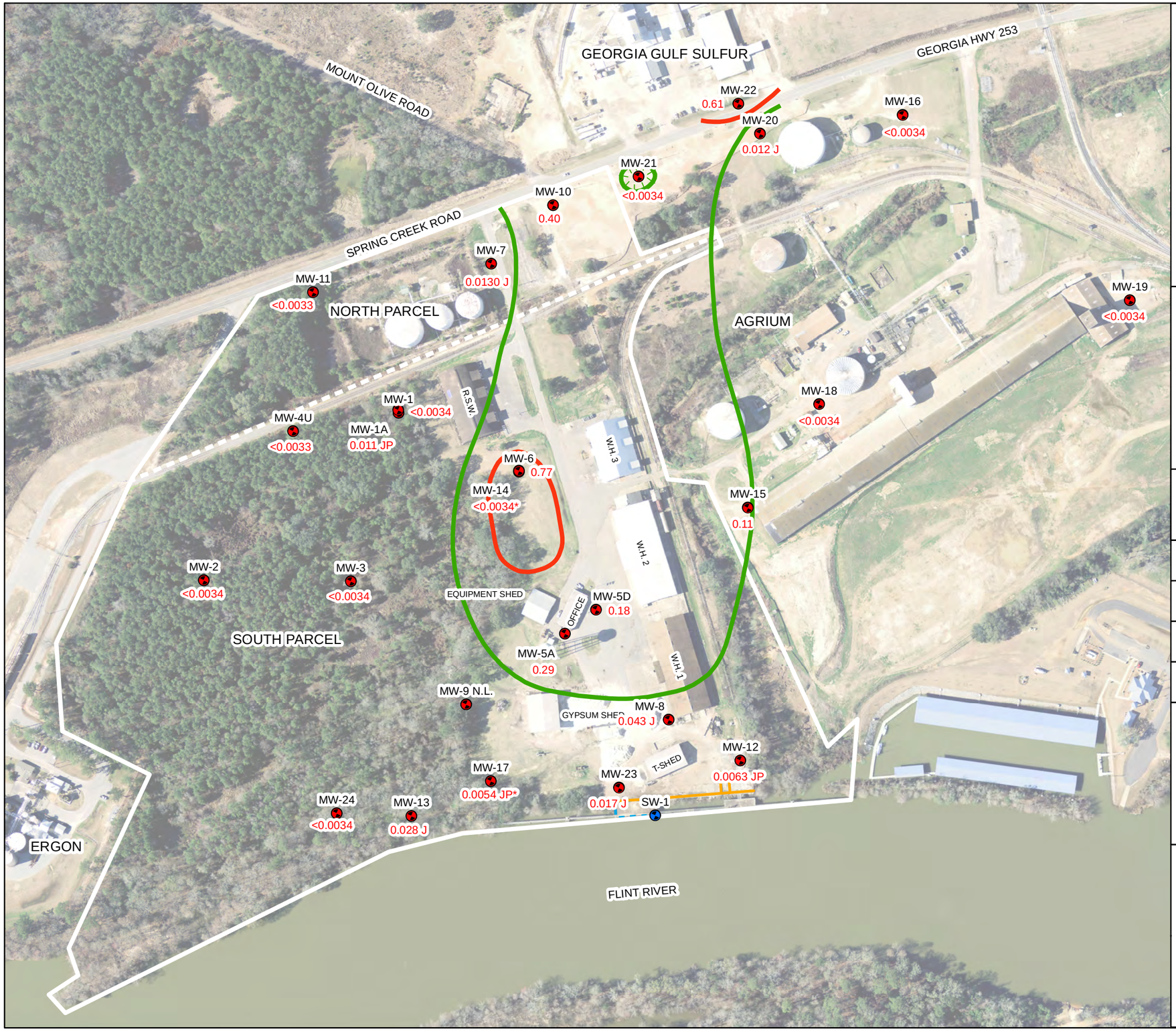
Feet

DESIGNED BY: A.G.	REVISIONS NO.	REVISIONS DATE	DATE: 4/22/2016
DRAWN BY: A.G.			SCALE: SEE BAR SCALE
CHECKED BY: A.S.			SHEET NO.: 1 OF 1
APPROVED BY: R.M.			

FIGURE 3-2: MARCH 2016 GROUNDWATER POTENTIOMETRIC SURFACE MAP

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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



Legend

- MONITORING WELL
- STILLING WELL
- MW-18 MONITORING WELL ID
- N.L. NOT LOCATED

SITE FEATURES

- BULKHEAD
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER

ALPHA-BHC CONCENTRATIONS

CONTOURS

- DELINIATION CRITERION OF 0.1 µg/L
- RRS TYPE 4 OF 0.5 µg/L

CONCENTRATIONS

- <0.0034 CONCENTRATION IN µg/L
- <0.0034* CONCENTRATION NOT CONSIDERED IN CONTOURS FOR DEEP WELLS (SCREENED BELOW 50 FT BGS)
- J CONCENTRATION BELOW QUANTITATION LIMIT AND ABOVE DETECTION LIMIT
- P THE %RPD BETWEEN THE PRIMARY CONFIRMATION COLUMN/DETECTOR IS >40%. THE LOWER VALUE HAS BEEN REPORTED

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.
WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400 Feet

DESIGNED BY: A.G.	REVISIONS NO.	REVISIONS DATE	DATE: 4/28/2016
DRAWN BY: S.F.H.			SCALE: SEE BAR SCALE
CHECKED BY: A.S.			SHEET NO.: 1 OF 1
APPROVED BY: R.M.			

FIGURE 3-3: MARCH 2016 ALPHA-BHC ISOCONCENTRATION MAP

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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

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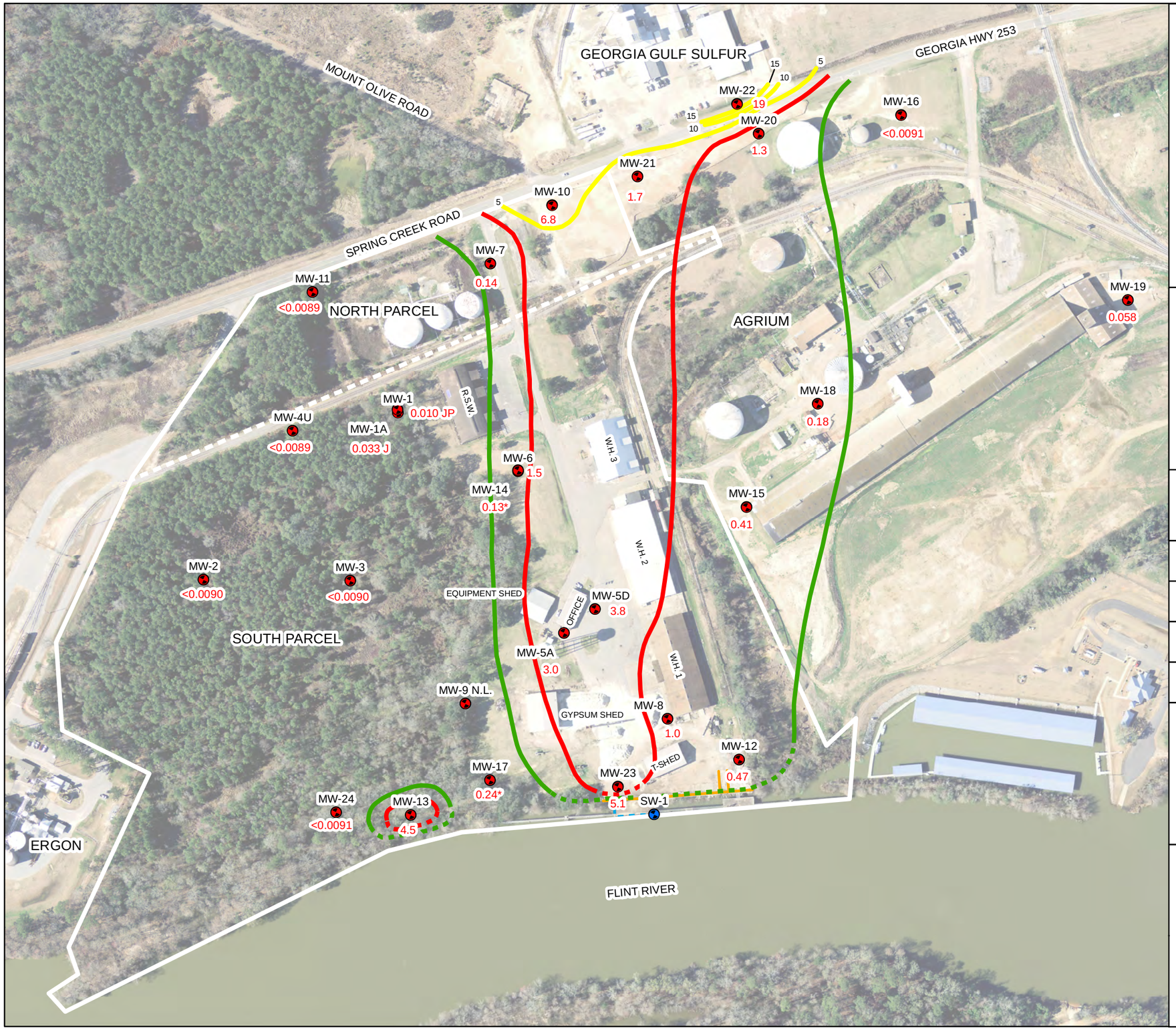

Legend

- MONITORING WELL
- STILLING WELL
- MW-18 MONITORING WELL ID
- N.L. NOT LOCATED

SITE FEATURES

- BULKHEAD
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER

BETA-BHC CONCENTRATIONS

CONTOURS

- DELINIATION CRITERION OF 0.1 µg/L
- RRS TYPE 4 OF 1.6 µg/L
- BETA BHC CONTOURS (5 µg/L INTERVAL)

CONCENTRATIONS

- 0.57 CONCENTRATION IN µg/L
- 0.24* CONCENTRATION NOT CONSIDERED IN CONTOURS FOR DEEP WELLS (SCREENED BELOW 50 FT BGS)
- J CONCENTRATION BELOW QUANTITATION LIMIT AND ABOVE DETECTION LIMIT
- P THE %RPD BETWEEN THE PRIMARY CONFIRMATION COLUMN/DETECTOR IS >40%. THE LOWER VALUE HAS BEEN REPORTED

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.
WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400 Feet

DESIGNED BY: A.G.	REVISIONS NO.	REVISIONS DATE	DATE: 4/22/2016
DRAWN BY: A.G.			SCALE: SEE BAR SCALE
			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 3-4: MARCH 2016 BETA-BHC ISOCONCENTRATION MAP

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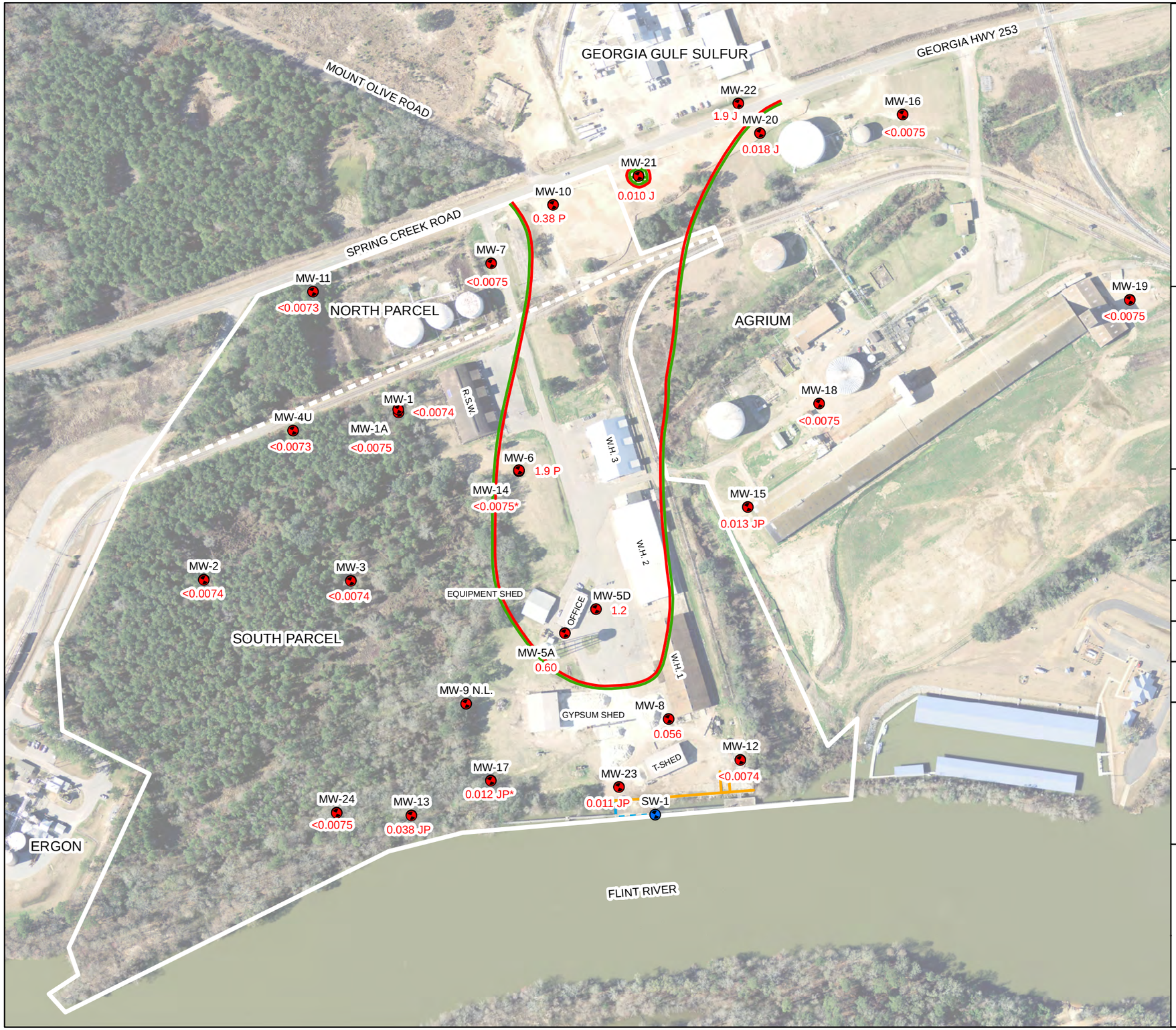
ALPHARETTA, GEORGIA 30009

FILE: 400007 - 4.5 - GPA BAINBRIDGE



Legend

MONITORING WELL

STILLING WELL

MW-18 MONITORING WELL ID

N.L. NOT LOCATED

SITE FEATURES

BULKHEAD

NORTH AND SOUTH PARCEL DIVISION

BAINBRIDGE PARCEL LINES

PIER

DELTA-BHC CONCENTRATIONS

CONTOURS

DELINIATION CRITERION OF 0.1 µg/L

RRS TYPE 4 OF 0.1 µg/L

CONCENTRATIONS

4.5	CONCENTRATION IN µg/L
<0.0075*	CONCENTRATION NOT CONSIDERED IN CONTOURS FOR DEEP WELLS (SCREENED BELOW 50 FT BGS)
J	CONCENTRATION BELOW QUANTITATION LIMIT AND ABOVE DETECTION LIMIT
P	THE %RPD BETWEEN THE PRIMARY CONFIRMATION COLUMN/DETECTOR IS >40%. THE LOWER VALUE HAS BEEN REPORTED.

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.
WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400

Feet

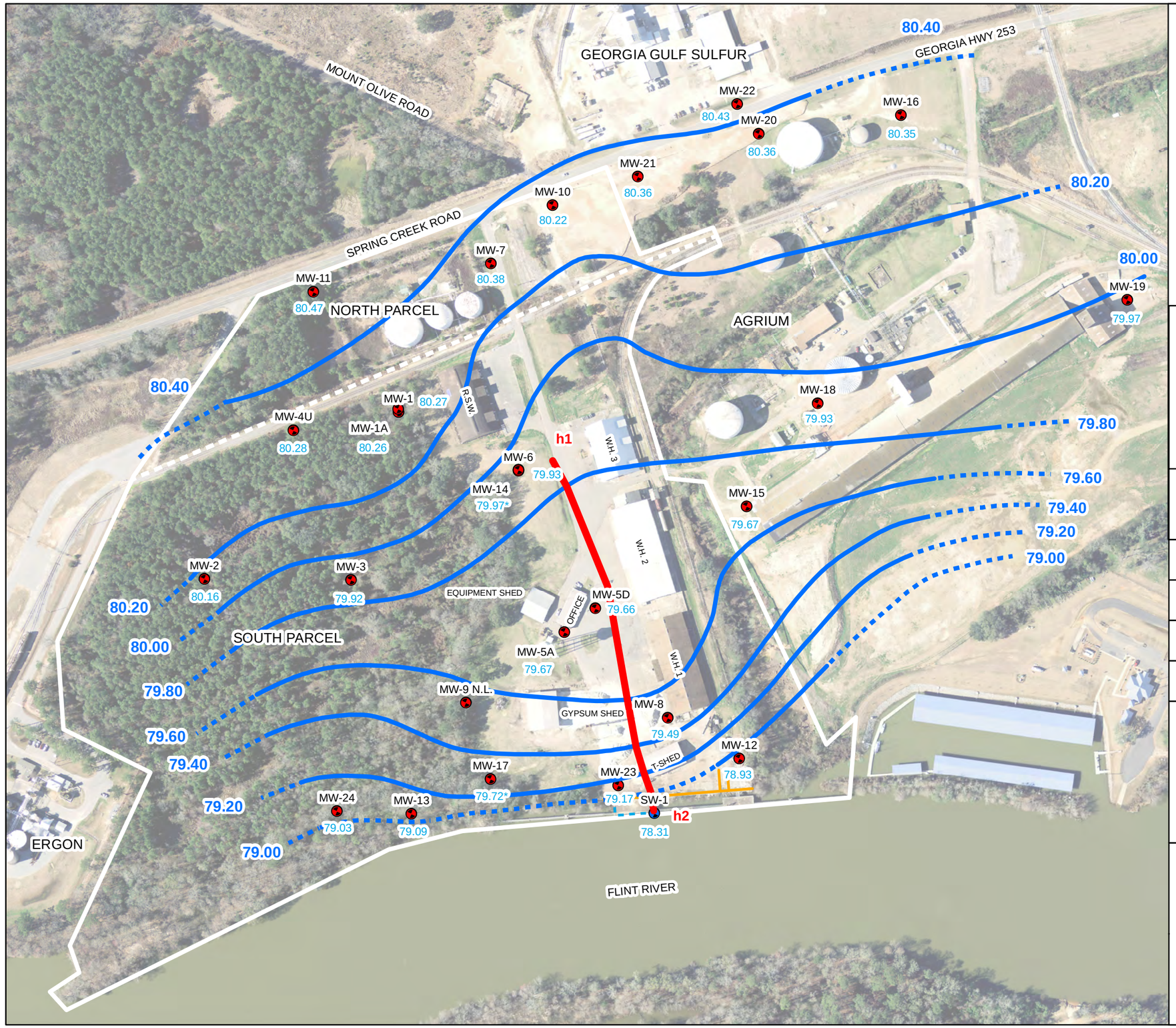
DESIGNED BY: A.G.	REVISIONS NO.	REVISIONS DATE	DATE: 4/22/2016
DRAWN BY: S.F.H.			SCALE: SEE BAR SCALE
			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 3-5: MARCH 2016 DELTA-BHC ISOCONCENTRATION MAP

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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

FILE: 400007 - 4.5 - GPA BAINBRIDGE



Legend

MONITORING WELL

STILLING WELL

MW-18 MONITORING WELL ID

N.L. NOT LOCATED

SITE FEATURES

BULKHEAD

NORTH AND SOUTH PARCEL DIVISION

BAINBRIDGE PARCEL LINES

PIER

GROUNDWATER CONTOURS

CONTOUR (0.2 FT.)

ESTIMATED CONTOUR

79.80 GROUNDWATER CONTOUR ELEVATION (FT., NAVD 88)

79.92 GROUNDWATER ELEVATION (FT., NAVD 88)

* GROUNDWATER ELEVATION NOT CONSIDERED AS WELL IS SCREENED GREATER THAN 50 FEET BELOW GROUND SURFACE

MODEL FLOW PATH

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY.
WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400

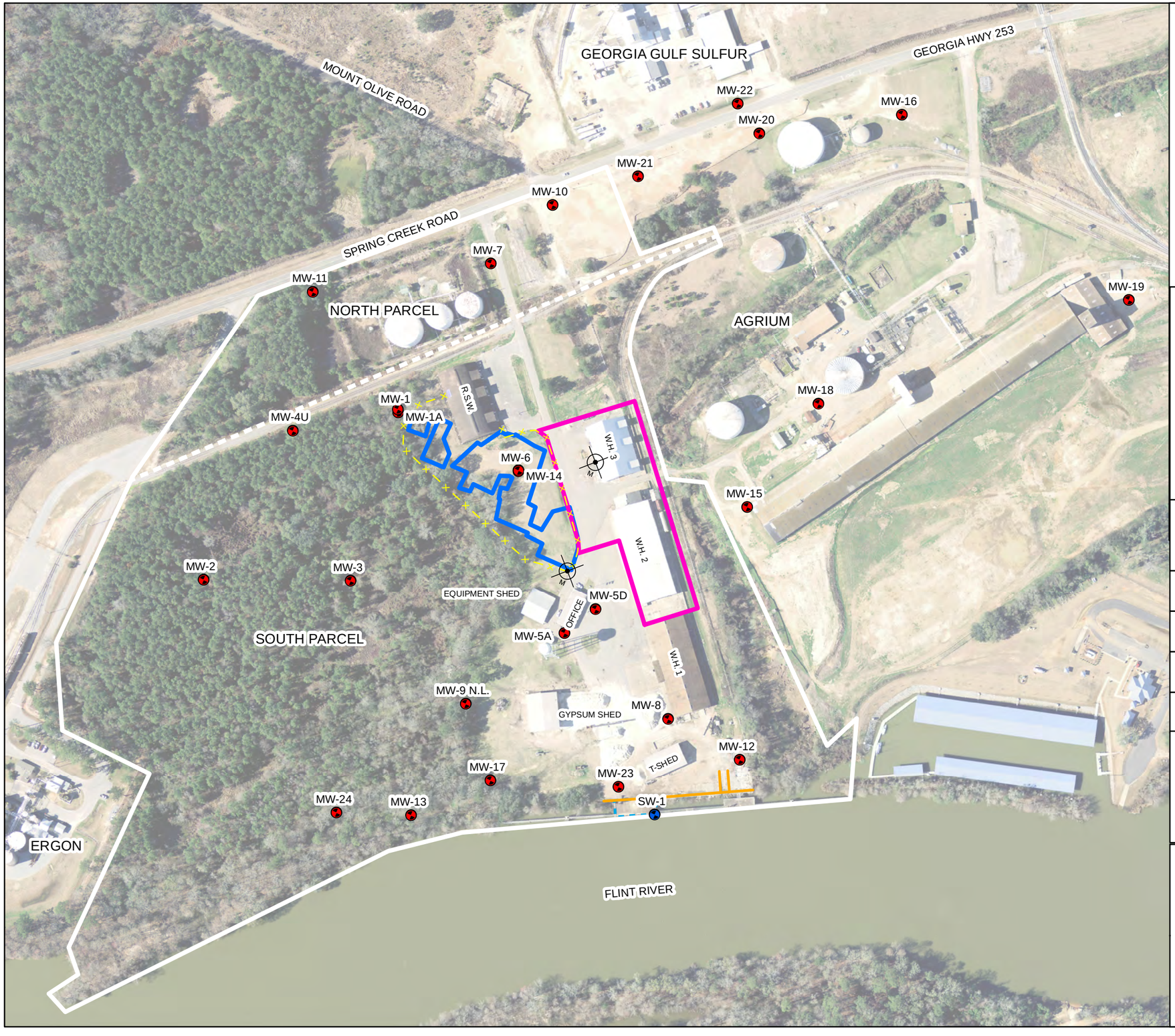
Feet

DESIGNED BY: A.G.	REVISIONS NO.	REVISIONS DATE	DATE: 4/22/2016
DRAWN BY: S.F.H.			SCALE: SEE BAR SCALE
CHECKED BY: A.S.			SHEET NO.: 1 OF 1
APPROVED BY: R.M.			

FIGURE 4-1: FLINT RIVER MIXING MODEL FLOW PATH WITH MARCH 2016 GROUNDWATER POTENTIOMETRIC SURFACE

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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



Legend

- MONITORING WELL
- STILLING WELL
- MW-18 MONITORING WELL ID
- N.L. NOT LOCATED

SITE FEATURES

- BULKHEAD
- NORTH AND SOUTH PARCEL DIVISION
- BAINBRIDGE PARCEL LINES
- PIER

AREAS OF CONCERN (AOC)

CURRENT AOC EXTENTS

- AOC-1 FENCELINE
- AOC-1 BOUNDARY
- AOC-2 BOUNDARY
- UNIFORM ENVIRONMENTAL COVENANT GRANITE MONUMENT

NOTES:

AERIAL PHOTO WAS PROVIDED BY GPA. ABOVE GROUND STORAGE TANKS ON GPA NORTH PARCEL AND ON AGRIUM PROPERTY, AS WELL AS THE WAREHOUSE AND OTHER BUILDINGS ON AGRIUM PROPERTY HAVE SINCE BEEN DEMOLISHED.

PROPERTY LINES PROVIDED BY GEORGIA PORTS AUTHORITY. WELL LOCATIONS PLOTTED FROM MULTIPLE SURVEYS AT SITE. GRANITE MONUMENT LOCATIONS AND AOC-2 BOUNDARY ARE PLOTTED FROM A SURVEY CONDUCTED BY MOCK SURVEYING INC. ON FEBRUARY 16, 2016.

W.H. = WAREHOUSE
R.S.W. = FORMER ROCK SALT WAREHOUSE
T-SHED = TRANSPORT SHED

N

400 200 0 400 Feet

DESIGNED BY: A.G.	REVISIONS NO.	REVISIONS DATE	DATE: 4/22/2016
DRAWN BY: A.G.			SCALE: SEE BAR SCALE
			SHEET NO.: 1 OF 1
CHECKED BY: A.S.			
APPROVED BY: R.M.			

FIGURE 5-1: UNIFORM ENVIRONMENTAL COVENANT GRANITE MONUMENT INSTALLATION LOCATIONS FOR AREAS OF CONCERN 1 AND 2

GEORGIA PORTS AUTHORITY
BAINBRIDGE TERMINAL
BAINBRIDGE, GEORGIA

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

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

SEVENTH VIRP SEMI-ANNUAL PROGRESS REPORT

PHOTOGRAPHS



Photograph 5-1: AOC-1 monument installation



Photograph 5-2: AOC-2 monument installation

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

SEVENTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT A
MARCH 2016 WELL PURGING AND SAMPLING FIELD LOGS

ENVIRONMENTAL INTERNATIONAL CORPORATION

PAGE 1 OF 1

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-1

DATE: 3-1-16 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Cloudy 75°F

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): 24.95 FT. | TIME: 1612 | BTOC WELL SCREEN INTERVAL: 22.01 FT. to 32.01 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 30.29 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 32.8 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

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA | 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.)
1616	0	21.03	3.22	294	0.354	0.0	3.65	24.97	
1621	1200	19.97	3.19	299	0.390	0.0	1.80	24.97	
1626	1840	19.80	3.10	302	0.417	0.0	1.49	24.97	
1631	2240	19.73	3.09	304	0.440	0.0	1.35	24.97	
1636	3280	19.59	3.15	301	0.467	0.0	1.35	24.97	
1641	4190	19.77	3.14	302	0.498	0.0	1.43	24.97	
1646	5140	19.70	3.16	301	0.512	0.0	1.45	24.97	
1651	6000	19.55	3.19	300	0.525	0.0	1.37	24.97	
1656	6900	19.61	3.19	301	0.533	0.0	1.51	24.97	

3-1-16

COMMENTS: | SAMPLE COLLECTION TIME: 1658

PREPARED BY:

* 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	29.5
Final tubing depth (ft.) BTOC	28.5
Initial pump speed	6.01
Time pump speed was initialized	1609
Pump speed at flow into cylinder	6.01
Started new roll of tubing at	
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	1628	1640	1651						
Cummulative Volume (mL)	2000	4000	6000						

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-1A

DATE: 3-1-16 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Cloudy 75°F

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): 25.07 FT. TIME: 1705 | BTOC WELL SCREEN INTERVAL: 25.85 FT. to 35.85 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 33.96 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 36.81 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

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ KR TA | 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.)
1725	0	20.69	3.42	290	0.541	0.0	3.06	25.08	
1730	1120	19.76	3.34	300	0.727	0.0	1.15	25.08	
1735	2000	19.53	3.25	309	0.805	0.0	0.91	25.08	
1740	3000	19.36	3.22	314	0.808	0.0	0.85	25.08	
1745	3900	19.42	3.21	318	0.806	0.0	0.82	25.08	

Kent R. 3-1-16

COMMENTS:

SAMPLE COLLECTION TIME: 1748

PREPARED BY: Kent R

* 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.)	34
Initial tubing depth (ft.) BTOC	31
Final tubing depth (ft.) BTOC	31
Initial pump speed	6.45
Time pump speed was initialized	1720
Pump speed at flow into cylinder	6.45
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	1735	1745							
Cummulative Volume (mL)	2000	4000							

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

PAGE 1 OF 1

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-2

DATE: 2-29-16 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Normal ~72° F clear

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): 18.70 FT. | TIME: 16:17 | BTOC WELL SCREEN INTERVAL: 15.85 FT. to 25.85 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 26.35 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 29.2 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

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA | 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.)
~~16:34~~	0	20.36	7.39	146	0.076	0.0	5.44	18.75	Time 16:34
16:39	1620	19.22	4.45	225	0.053	0.0	5.12	18.75	
16:44	1820	19.98	4.40	244	0.051	0.0	5.14	18.75	
16:49	2000	18.51	4.44	244	0.053	0.0	5.25	18.75	

COMMENTS:

SAMPLE COLLECTION TIME: 16:55

PREPARED BY: Stelma

* 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	7.56
Time pump speed was initialized	16:31
Pump speed at flow into cylinder	7.56
Started new roll of tubing at	—
Three well volume (mL)	—

18.70

29.2 29.2 - 10 = 19.2

2,000 mL volume poured into bucket:

Time	16:40								
Cummulative Volume (mL)	2000								

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-3

DATE: 3/1/16 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Partly Cloudy 79°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 25.00 FT.

INITIAL WATER LEVEL (BTOC): 17.20 FT. | TIME: 1349 | BTOC WELL SCREEN INTERVAL: 17.83 FT. to 27.83 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 24.5 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 27.32 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

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA | 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.)
1400	0	20.63	5.54	118	0.080	0.0	8.82	17.22	
1405	1980	19.06	4.67	183	0.071	0.0	7.90	17.22	
1410	3700	18.33	4.78	181	0.085	0.0	7.91	17.22	
1415	5100	18.38	4.57	192	0.071	0.0	7.79	17.22	
1420	5380	18.34	4.19	219	0.071	0.0	7.74	17.22	
1425	6020	18.24	4.41	206	0.071	0.0	8.02	17.22	
1430	7950	18.29	4.36	212	0.070	0.0	7.93	17.22	
1435	9470	18.30	4.24	220	0.070	0.0	7.91	17.22	
1440	10,250	18.39	4.27	219	0.070	0.0	7.85	17.22	
1445	10,350	18.33	4.26	221	0.070	0.0	7.80	17.22	

7.80

Kent K 3-1-16

COMMENTS:

SAMPLE COLLECTION TIME: 1448

PREPARED BY: Kent K

* 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
Initial tubing depth (ft.) BTOC	22
Final tubing depth (ft.) BTOC	22
Initial pump speed	7.06
Time pump speed was initialized	1356
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	1407	1415	1422	1432	1437	1444			
Cummulative Volume (mL)	2000	4000	6000	8000	10,000	12,000			

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-4U

DATE: 3-1-16 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Cloudy 79°F

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): 23.23 FT. | TIME: 1501 | BTOC WELL SCREEN INTERVAL: 18.05 FT. to 33.05 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 30.33 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 32.38 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

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA | 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.)
1514	0	21.90	3.86	243	0.029	0.0	5.84	23.26	
1519	1040	20.50	3.73	253	0.028	0.0	5.55	23.26	
1524	1880	20.27	3.34	278	0.218	0.0	5.55	23.26	
1529	2510	20.15	3.72	256	0.219	0.0	5.40	23.26	
1534	4050	19.93	3.38	278	0.219	0.0	5.60	23.26	
1539	4440	19.92	3.36	280	0.219	0.0	5.44	23.26	
1544	5760	19.97	3.41	278	0.218	0.0	5.41	23.26	

Reviewed K 3-1-16

COMMENTS:

SAMPLE COLLECTION TIME: ~~1550~~ 1546

PREPARED BY: Reviewed K

* 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.)	30
Initial tubing depth (ft.) BTOC	27
Final tubing depth (ft.) BTOC	27
Initial pump speed	5.30
Time pump speed was initialized	1409
Pump speed at flow into cylinder	5.30
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	1525	1536							
Cummulative Volume (mL)	2000	4000							

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

PAGE 1 OF 1

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-5A

DATE: 3-2-16	PROJECT NAME: GPA Bainbridge	PROJECT NO: 400007 - 4.5
WEATHER CONDITIONS: Sunny 66° F		
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): 17.00 FT. TIME: 1550	BTOC WELL SCREEN INTERVAL: 16.20 FT. to 26.20 FT.	
MEASURED TOTAL WELL DEPTH (**BGS**): 22.52 FT.	MEASURED TOTAL WELL DEPTH (BTOC): 22.82 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		
LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA	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.)
1602	0	22.23	4.97	124	0.392	0.6	4.52	17.02	
1607	1170	22.64	4.19	146	0.391	0.0	4.36	17.02	
1612	2430	22.68	4.14	151	0.389	0.0	4.38	17.02	
1617	3950	22.71	4.14	153	0.401	0.0	4.20	17.02	
~~16~~									

Kenneth Reese 3-2-16

COMMENTS:

SAMPLE COLLECTION TIME: 1620

PREPARED BY: Kenneth Reese

* 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.)	21.5
Initial tubing depth (ft.) BTOC	20
Final tubing depth (ft.) BTOC	20
Initial pump speed	7.03
Time pump speed was initialized	15:56
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	1610								
Cummulative Volume (mL)	2000								

Additional remarks: _____

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-5D

DATE: 3-2-16 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny 60° 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 25.00 FT.

INITIAL WATER LEVEL (BTOC): 16.46 FT. | TIME: 1630 | BTOC WELL SCREEN INTERVAL: 14.80 FT. to 24.80 FT.

MEASURED TOTAL WELL DEPTH (BGS): 24.68 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 24.88 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

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA | 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.)
1642	800	23.12	3.48	199	2.57	0.0	1.69	16.48	
1647	2050	22.98	3.43	203	2.35	0.0	2.62	16.48	
1652	3110	22.87	3.42	206	1.97	0.0	3.04	16.48	
1657	4450	22.78	3.41	208	1.85	0.0	3.04	16.48	
1702	6210	22.78	3.41	208	1.85	0.0	2.99	16.48	
1707	6850	22.70	3.32	214	1.92	0.0	2.98	16.48	
1712	8850	22.67	3.37	212	1.98	0.0	2.89	16.48	
1717	9150	22.62	3.37	213	2.01	0.0	2.95	16.48	

Kenneth Reese 3-2-16

COMMENTS: Spike Matrix ~~Spike~~ Collected

SAMPLE COLLECTION TIME: 1720

PREPARED BY: Kenneth Reese

* 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.)	22
Initial tubing depth (ft.) BTOC	21
Final tubing depth (ft.) BTOC	21
Initial pump speed	7.02
Time pump speed was initialized	1637
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	1647	1655	1704	1718					
Cummulative Volume (mL)	2000	4000	6000	8000					

Additional remarks: Matrix Spike Collected

ENVIRONMENTAL INTERNATIONAL CORPORATION

PAGE 1 OF 1

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-6

DATE: 3-2-16 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny 65°F

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): 22.32 FT. | TIME: 1206 | BTOC WELL SCREEN INTERVAL: 46.80 FT. to 51.80 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 51.61 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 51.81 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

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA | 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.)
1211	0	20.82	5.79	-39	1.41	182	2.14	23.35	
1216	1120	20.97	5.67	-31	1.53	89.3	0.91	23.78	
1221	2480	21.03	5.56	-22	1.63	59.6	0.74	24.03	
1226	3760	21.04	5.47	-14	1.71	33.1	0.49	24.12	
1231	4970	21.04	5.38	-6	1.74	37.4	0.40	24.12	
1236	6280	21.10	5.34	-1	1.75	18.6	0.38	24.19	
1241	7520	21.05	5.27	5	1.76	36.1	0.48	24.20	
1246	8620	21.05	5.22	10	1.77	33.5	0.34	24.20	
1251	9880	21.32	5.18	14	1.75	22.0	0.38	24.20	
1256	11030	21.43	5.15	17	1.77	0.0	0.35	24.20	
1301	11980	21.05	5.10	22	1.77	1.8	0.33	24.20	

COMMENTS:

SAMPLE COLLECTION TIME: 1303

PREPARED BY: Kenneth Rose

3-2-16

* 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.)	51.5
Initial tubing depth (ft.) BTOC	49.5
Final tubing depth (ft.) BTOC	49.5
Initial pump speed	7.15
Time pump speed was initialized	1208
Pump speed at flow into cylinder	7.15
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	1219	1227	1235	1243	1251				
Cummulative Volume (mL)	2000	4000	6000	8000	10,000				

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-7

DATE: 3-3-16 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny 63° 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): 17.72 FT. | TIME: 1047 | BTOC WELL SCREEN INTERVAL: 14.50 FT. to 25.50 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 21.75 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 22.25 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

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA | 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.)
1055	3600	20.40	4.02	250	0.329	13.5	3.78	17.75	
1100	1500	20.92	4.10	244	0.322	10.0	3.20	17.75	
1105	3000	21.13	4.14	240	0.331	2.9	2.22	17.75	
1110	4200	21.18	4.10	242	0.332	2.7	2.11	17.75	
FTS									

Kenneth Reen 3-3-16

COMMENTS: | SAMPLE COLLECTION TIME: 1113

PREPARED BY: Kenneth Reen

* 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.)	22
Initial tubing depth (ft.) BTOC	20
Final tubing depth (ft.) BTOC	20
Initial pump speed	7.02
Time pump speed was initialized	10:52
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	1101	1109							
Cummulative Volume (mL)	2000	4000							

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-8

DATE: 3-2-16 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny 63°F

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): 14.05 FT. | TIME: 1741 | BTOC WELL SCREEN INTERVAL: 11.70 FT. to 22.70 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 21.66 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 21.96 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 KR

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA | 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.)
1748	0	22.17	3.52	214	0.732	0.0	2.39	14.06	
1753	1520	22.43	3.57	209	0.744	0.0	1.58	14.07	
1758	2860	22.46	3.60	206	0.747	0.0	1.34	14.07	
1803	4240	22.41	3.59	206	0.747	0.0	1.29	14.07	
1808									
1813									

Kenneth Reed 3-2-16

COMMENTS: | SAMPLE COLLECTION TIME: 1805

PREPARED BY: Kenneth Reed

* 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.)	20
Initial tubing depth (ft.) BTOC	18
Final tubing depth (ft.) BTOC	18
Initial pump speed	7.58
Time pump speed was initialized	1745
Pump speed at flow into cylinder	7.58
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	1754	1802							
Cummulative Volume (mL)	2000	4000							

Additional remarks: well bolts sheared off

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-10

DATE: 3-3-16	PROJECT NAME: GPA Bainbridge	PROJECT NO: 400007 - 4.5
WEATHER CONDITIONS: Sunny 64°F		
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): 19.61 FT. TIME: 1126	BTOC WELL SCREEN INTERVAL: 20.10 FT. to 30.10 FT.	
MEASURED TOTAL WELL DEPTH (**BGS**): 30.85 FT.	MEASURED TOTAL WELL DEPTH (BTOC): 30.75 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		
LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA	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.)
1137	0	21.60	3.79	258	0.775	8.9	5.16	19.90	
1142	780	21.70	3.82	259	0.784	8.5	3.13	19.94	
1147	2000	21.81	3.77	260	0.771	13.5	2.49	20.02	
1152	3190	21.84	3.80	258	0.764	11.6	2.26	20.03	
1157	4310	21.85	3.80	257	0.744	7.5	2.10	20.05	
~~1202~~									

COMMENTS: Collected FD

SAMPLE COLLECTION TIME: 1200

PREPARED BY: Kenneth Reese

* 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	6.03
Time pump speed was initialized	1135
Pump speed at flow into cylinder	6.03
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	1147	1155							
Cummulative Volume (mL)	2000	4000							

Additional remarks: The water level raised up when the well cap was removed. Waited until water stabilize before taking water level.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-11

DATE: 2/29/16	PROJECT NAME: GPA Bainbridge	PROJECT NO: 400007 - 4.5
WEATHER CONDITIONS: Partly Cloudy 65°F mound		
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): 20.40 FT. TIME: 17:23	BTOC WELL SCREEN INTERVAL: 16.70 FT. to 26.70 FT.	
MEASURED TOTAL WELL DEPTH (BGS): 27.20 FT.	MEASURED TOTAL WELL DEPTH (BTOC): 27.5 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		
LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA	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.)
17:37	0	20.21	3.72	282	0.145	0.0	5.84	20.50	
17:42	1440	19.64	3.54	295	0.154	0.0	5.32	20.45	
17:47	2820	19.52	3.59	294	0.155	0.0	5.06	20.45	
17:52	4200	19.46	3.42	306	0.155	0.0	5.03	20.45	
17:57	5580	19.43	3.54	297	0.155	0.0	4.95	20.45	
18:02	6150	19.36	3.60	296	0.155	0.0	4.84	20.45	
18:07	7130	19.36	3.56	299	0.150	0.0	4.82	20.45	
18:12	8220	19.32	3.61	296	0.156	0.0	4.66	20.45	

COMMENTS:

SAMPLE COLLECTION TIME: 18:15

PREPARED BY: STP/mlg

* 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
Initial tubing depth (ft.) BTOC	24
Final tubing depth (ft.) BTOC	24
Initial pump speed	7.35
Time pump speed was initialized	17:34
Pump speed at flow into cylinder	7.35
Started new roll of tubing at	
Three well volume (mL)	

2,000 mL volume poured into bucket:

Time	17:44	17:53	18:01	18:10					
Cummulative Volume (mL)	2000	4000	6000	8000					

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-12

DATE: 3-2-16	PROJECT NAME: GPA Bainbridge	PROJECT NO: 400007 - 4.5
WEATHER CONDITIONS: Sunny 66°F		
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): 15.13 FT. TIME: 1503	BTOC WELL SCREEN INTERVAL: 11.75 FT. to 21.75 FT.	
MEASURED TOTAL WELL DEPTH (BGS): 22.28 FT.	MEASURED TOTAL WELL DEPTH (BTOC): 22.53 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		
LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA	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.)
1510	0	20.68	5.55	69	1.08	0.0	1.64	15.16	
1515	1600	20.75	5.76	50	1.08	0.0	1.02	15.16	
1520	3160	20.75	5.79	44	1.08	0.0	0.92	15.16	
1525	4910	20.75	5.81	40	1.07	0.0	0.89	15.16	
15									

3-2-16

COMMENTS:

SAMPLE COLLECTION TIME: 1528

PREPARED BY: Kenneth Reed

* 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.)	20
Initial tubing depth (ft.) BTOC	18.5
Final tubing depth (ft.) BTOC	18.5
Initial pump speed	7.04
Time pump speed was initialized	1508
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: SM.

Time	1516	1523							
Cummulative Volume (mL)	2000	4000							

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-13

DATE: 3-2-16 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny 64° F

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): 4.86 FT. | TIME: 1420 | BTOC WELL SCREEN INTERVAL: 11.70 FT. to 21.70 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 21.73 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 22.03 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

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA | 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.)
1430	0	19.07	5.03	83	0.455	0.0	2.29	14.87	
1435	1650	18.57	4.84	93	0.454	0.0	1.73	14.87	
1440	3050	18.52	4.76	98	0.453	0.0	1.54	14.87	
1445	4620	18.59	4.81	94	0.453	0.0	1.45	14.87	
1450									

COMMENTS:

SAMPLE COLLECTION TIME: 1448

PREPARED BY: Kenneth Reed

* 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.)	20
Initial tubing depth (ft.) BTOC	18.5
Final tubing depth (ft.) BTOC	18.5
Initial pump speed	7.19
Time pump speed was initialized	1427
Pump speed at flow into cylinder	7.19
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	1436	1443							
Cummulative Volume (mL)	2000	4000							

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-14

DATE: 3-2-16 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny 63°F

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.

22.14 ← INITIAL WATER LEVEL (BTOC): ~~22.02~~ 5ll FT. | TIME: 1055 | BTOC WELL SCREEN INTERVAL: 66.85 FT. to 71.85 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 71.35 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 71.5 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

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ KR TA | 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.)
1105	0	19.73	7.34	97	0.255	40.5	2.08	22.89	
1110	1460	20.56	9.15	21	0.318	29.5	0.97	23.49	
1115	2360	20.61	8.97	-6	0.297	3.9	0.66	23.73	
1120	4360	20.69	8.15	-49	0.276	0.0	0.57	23.82	
1125	5680	20.76	7.64	-99	0.270	0.0	0.54	23.86	5680
1130	6420	20.72	7.28	-100	0.262	0.0	0.50	23.89	
1135	7230	20.74	7.17	-107	0.262	0.0	0.49	23.89	
1140	8830	20.76	6.79	-96	0.257	0.0	0.46	23.89	
1145	9800	20.81	6.87	-108	0.256	0.0	044	23.89	
1150	11030	20.81	6.88	-113	0.247	0.0	0.43	23.89	
1155	12390	20.78	6.88	-115	0.242	0.0	0.42	23.89	

COMMENTS:

SAMPLE COLLECTION TIME: 1158

PREPARED BY: Kenneth Rose

* 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.)	71
Initial tubing depth (ft.) BTOC	69
Final tubing depth (ft.) BTOC	69
Initial pump speed	8.01
Time pump speed was initialized	1102
Pump speed at flow into cylinder	8.01
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	1112	1120	1128	1137	1146	1153			
Cummulative Volume (mL)	2000	4000	6000	8000	10000	12,000			

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-15

DATE: 3-1-16	PROJECT NAME: GPA Bainbridge	PROJECT NO: 400007 - 4.5
WEATHER CONDITIONS: Clear Sunny 70° F		
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): 18.46 FT. TIME: 1058	BTOC WELL SCREEN INTERVAL: 13.00 FT. to 23.00 FT.	
MEASURED TOTAL WELL DEPTH (BGS): 21.51 FT.	MEASURED TOTAL WELL DEPTH (BTOC): 21.51 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		
LABORATORY PERFORMING ANALYSIS: ~~Kemco~~ TA	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.)
1116	0	22.46	5.11	134	6.30	0.0	1.40	18.52	
1120	940	21.78	4.71	152	6.06	0.0	0.89	18.53	
1125	1720	21.84	4.64	157	5.83	0.0	0.75	18.52	
1130	2420	21.90	4.67	155	5.70	0.0	0.70	18.51	
1135	3230	21.95	4.64	157	5.62	0.0	0.65	18.51	
1140	3900	21.99	4.60	159	5.58	0.0	0.63	18.51	
1145	6090	22.01	4.65	156	5.54	0.0	0.61	18.51	

Kenneth R 3-1-16

COMMENTS:

SAMPLE COLLECTION TIME: 1146

PREPARED BY: Kenneth R

* 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	20
Final tubing depth (ft.) BTOC	20
Initial pump speed	5.01
Time pump speed was initialized	1105
Pump speed at flow into cylinder	5.01
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	1127	1141							
Cummulative Volume (mL)	2000	4000							

Additional remarks: Stopped pump at 1109 to fix leak on flow cell started pump back up at 1111

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-16

DATE: 3-3-16 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny 57°F

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): 16.80 FT. | TIME: 0948 | BTOC WELL SCREEN INTERVAL: 13.80 FT. to 23.80 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 23.23 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 23.83 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

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA | 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.)
1004	0	18.46	7.65	50	0.034	38.7	7.07	16.84	
1006	1340	20.00	4.95	150	0.031	55.8	7.20	16.84	
1011	2780	20.28	4.89	193	0.030	55.0	7.13	16.84	
1016	3850	20.38	4.87	220	0.030	48.8	7.08	16.84	
1021	5300	20.43	4.82	203	0.030	36.5	7.02	16.84	
1026	7200	20.43	4.84	202	0.030	23.0	7.0	16.84	
1031	8200	20.44	4.82	203	0.030	8.0	6.91	16.84	
1036									

COMMENTS:

SAMPLE COLLECTION TIME: 1034

PREPARED BY: Kenneth Lee

* 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.)	22
Initial tubing depth (ft.) BTOC	20.5
Final tubing depth (ft.) BTOC	20.5
Initial pump speed	7.07
Time pump speed was initialized	1000
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	1008	1015	1023	1030					
Cummulative Volume (mL)	2000	4000	6000	8000					

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-17

DATE: 3-2-16 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Partly Cloudy 51°F

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): 13.93 FT. | TIME: 9:28 | 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

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ KR TA | 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.)
0938	0	17.52	5.99	163	0.184	0.0	1.92	13.97	
0943	1820	19.23	6.36	132	0.303	6.2	0.81	13.97	
0948	3580	19.35	6.58	117	0.439	8.0	0.60	13.97	
5480 0953	~~5400~~ 5480	19.38	6.68	108	0.444	11.2	0.52	13.97	
0958	6680	19.43	6.74	100	0.450	1.2	0.48	13.97	
8960 1003	8960	19.42	6.74	95	0455	0.0	0.45	13.97	
10800 1008	~~9715~~ 10800	19.41	6.74	93	0.458	0.0	0.42	13.97	

Kenneth R 3-2-16

COMMENTS:

SAMPLE COLLECTION TIME: 1010

PREPARED BY: Kenneth R

* 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	8.67
Time pump speed was initialized	0936
Pump speed at flow into cylinder	8.67
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	0945	0949	0954	1000	1006				
Cummulative Volume (mL)	2000	4000	6000	8000	10000				

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-18

DATE: 3/1/16	PROJECT NAME: GPA Bainbridge	PROJECT NO: 400007 - 4.5
WEATHER CONDITIONS: Clear Sunny 66° F		
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): 15.63 FT. TIME: 0957	BTOC WELL SCREEN INTERVAL: 21.60 FT. to 31.60 FT.	
MEASURED TOTAL WELL DEPTH (BGS): 32.43 FT.	MEASURED TOTAL WELL DEPTH (BTOC): 32.83 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

LABORATORY PERFORMING ANALYSIS: ~~Kansas~~ TA | 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.)
1007	0	23.46	5.25	176	1.63	0.0	2.51	15.65	
1012	1600	23.64	5.92	125	1.75	0.0	0.93	15.65	
1017	~~3200~~ 3900	23.66	6.01	104	1.82	0.0	0.70	15.65	
1022	~~4400~~	23.68	5.97	97	1.84	0.0	0.63	15.65	> 4400
1027	~~7900~~	23.72	6.06	84	1.84	0.0	0.58	15.65	> 5800
1032	6780	23.75	6.08	78	1.85	0.0	0.56	15.65	
1037	7800	23.75	6.05	75	1.85	0.0	0.51	15.65	

Kenneth R 3-1-16

COMMENTS:

SAMPLE COLLECTION TIME: 1040

PREPARED BY: Kenneth R

* 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	7.65
Time pump speed was initialized	1004
Pump speed at flow into cylinder	7.65
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	1014	1022	1030						
Cummulative Volume (mL)	2000	4000	6000						

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-19

DATE: 3/1/16 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Clear No wind 54°F

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): 16.63 FT. TIME: 0820 | BTOC WELL SCREEN INTERVAL: 21.65 FT. to 31.65 FT.

MEASURED TOTAL WELL DEPTH (BGS): 32.08 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 32.43 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

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA | 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.)
0834	0	17.27	3.58	316	1.06	990	2.33	16.64	Very cloudy water
0839	1780	20.78	3.44	324	1.01	>1000	1.31	16.64	Very cloudy water
0844	3040	20.98	3.49	320	1.01	823	1.03	16.64	
0849	4500	21.44	3.52	317	0.998	645	0.88	16.64	
0854	5760	21.61	3.47	318	0.996	538	0.83	16.64	
0859	7340	22.05	3.50	315	0.986	422	0.76	16.64	
0904	8520	22.04	3.53	311	0.987	338	0.72	16.64	
0909	9880	22.26	3.47	314	0.981	240	0.69	16.64	
0914	11060	22.25	3.53	308	0.982	188	0.65	16.64	
0919	12870	22.39	3.54	306	0.979	127	0.61	16.64	
0924	13720	22.47	3.49	307	0.979	95.1	0.61	16.64	
0929	14830	22.54	3.55	302	0.977	85.5	0.59	16.64	
0934	16200	22.56	3.51	303	0.974	72.0	0.53	16.64	
0939									

COMMENTS:

SAMPLE COLLECTION TIME: 0941

PREPARED BY: Kenneth R

* 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	7.49
Time pump speed was initialized	0831
Pump speed at flow into cylinder	7.49
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	0840	0847	0855	0902	0910	0918	0926	0933	
Cummulative Volume (mL)	2000	4000	6000	8000	10,000	12,000	14,000	16,000	

Additional remarks: Water inside well vault about 1" above TOC
Well had pressure on well cap

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-20

DATE: 3-3-16 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny 73°F Slightly Windy

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): 16.21 FT. | TIME: 1517 | BTOC WELL SCREEN INTERVAL: 21.75 FT. to 31.75 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 32.05 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 32.8 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

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA | 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.)
1525	0	21.70	4.14	242	0.166	0.0	7.36	16.22	
1530	1400	21.57	3.90	257	0.167	0.0	6.74	16.22	
1535	2500	21.40	4.07	250	0.166	0.0	6.45	16.22	
1540	3500	21.33	4.25	238	0.168	0.0	6.46	16.22	
1545	4050	21.31	4.21	242	0.169	0.0	6.43	16.22	
1550	5470	21.28	4.06	250	0.176	0.0	6.45	16.22	
1555	6820	21.28	4.07	250	0.177	0.0	6.48	16.22	
1600	8400	21.45	4.02	253	0.177	0.0	6.44	16.22	

6620

COMMENTS:

SAMPLE COLLECTION TIME: 1603

PREPARED BY: Kenneth Reese

* 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.)	28.5
Initial tubing depth (ft.) BTOC	27
Final tubing depth (ft.) BTOC	27
Initial pump speed	6.50
Time pump speed was initialized	1522
Pump speed at flow into cylinder	6.50
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	1533	1544	1552						
Cummulative Volume (mL)	2000	4000	6000						

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

PAGE 1 OF 1

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-21

DATE: 3-3-16 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny 73°F

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): 17.19 FT. | TIME: 1355 | BTOC WELL SCREEN INTERVAL: 21.93 FT. to 31.93 FT.

MEASURED TOTAL WELL DEPTH (BGS): 31.43 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 31.5 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

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA | 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.)
1402	0	21.44	5.09	200	0.170	142	6.72	17.20	
1407	1120	21.42	5.19	191	0.170	126	6.06	17.20	
1412	2300	21.43	5.14	192	0.172	101	5.82	17.20	
1417	3440	21.45	5.17	190	0.174	85.5	5.63	17.20	
1424	4450	21.52	5.07	194	0.178	68.2	5.73	17.20	
1429	6170	21.43	5.10	193	0.184	44.2	5.69	17.20	
1434	7190	21.45	5.06	195	0.191	29.0	5.62	17.20	
1439	8450	21.49	5.08	194	0.192	21.4	5.63	17.20	
1444	9970	21.48	5.03	196	0.197	13.4	5.62	17.20	
1449	10820	21.48	4.97	200	0.202	7.7	5.55	17.20	
1454	12800	21.52	4.84	207	0.206	3.6	5.35	17.20	
1459	14020	21.50	4.84	206	0.207	0.0	5.37	17.20	
1504	14580	21.30	4.85	208	0.201	0.0	5.36	17.20	
			Kenneth Reed		3-3-16				

COMMENTS:

SAMPLE COLLECTION TIME: 1506

PREPARED BY: Kenneth Reed

* 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	6.29
Time pump speed was initialized	1400
Pump speed at flow into cylinder	6.29
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	1410	1419	1429	1437	1445	1454	1502		
Cummulative Volume (mL)	2000	4000	6000	8000	10,000	12,000	14,000		

Additional remarks: about a inch of water inside of well casing. The pump reverse at 1420. Stopped the pump and reset pump

ENVIRONMENTAL INTERNATIONAL CORPORATION

PAGE 1 OF 1

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-22

DATE: 3-3-16	PROJECT NAME: GPA Bainbridge	PROJECT NO: 400007 - 4.5
WEATHER CONDITIONS: Sunny 73°F		
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): 18.45 FT. TIME: 1619	BTOC WELL SCREEN INTERVAL: 23.80 FT. to 33.80 FT.	
MEASURED TOTAL WELL DEPTH (BGS): 33.34 FT.	MEASURED TOTAL WELL DEPTH (BTOC): 33.54 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		
LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA	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.)
1628	0	22.16	3.58	281	0.498	1.0	4.55	18.50	
1633	1320	22.08	3.59	279	0.514	0.0	3.27	18.50	
1638	2500	22.02	3.68	273	0.515	0.0	3.11	18.50	
1643	3200	22.03	3.74	270	0.514	0.0	3.16	18.50	
1648	4960	21.96	3.76	269	0.510	0.0	3.23	18.50	
1653									

Kenneth Reese 3-3-16

COMMENTS: Collected MS sample

SAMPLE COLLECTION TIME: 1650

PREPARED BY: Kenneth Reese

* 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.)	30
Initial tubing depth (ft.) BTOC	29
Final tubing depth (ft.) BTOC	29
Initial pump speed	7.02
Time pump speed was initialized	1626
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	1636	1644							
Cummulative Volume (mL)	2000	4000							

Additional remarks: _____

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ENVIRONMENTAL INTERNATIONAL CORPORATION

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WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-23

DATE: 3-3-16 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny 46°F

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

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 13.83 FT. to 23.83 FT.

INITIAL WATER LEVEL (BTOC): 14.44 FT. | TIME: 0830 | BTOC WELL SCREEN INTERVAL: 13.83 FT. to 23.83 FT.

MEASURED TOTAL WELL DEPTH (BGS): 24.00 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 24 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

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA | 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.)
0837	0	17.32	3.98	247	0.974	76.7	1.31	14.45	
0842	1590	20.60	4.23	229	0.949	71.6	0.53	14.45	
0847	3040	21.00	4.27	223	0.939	69.4	0.41	14.45	
0852	4680	21.19	4.37	215	0.927	62.2	0.36	14.45	
0857	6050	21.26	4.38	211	0.918	53.1	0.33	14.45	
0902	7610	21.35	4.49	202	0.904	46.8	0.32	14.45	
0907	9540	21.38	4.46	202	0.901	33.4	0.30	14.45	
0912	10500	21.33	4.53	194	0.902	21.9	0.30	14.45	
0917	11090	21.44	4.60	189	0.897	9.9	0.29	14.45	
0922	12420	21.48	4.60	187	0.899	0.0	0.29	14.45	
			Kenneth Reese						
					3-3-16				

COMMENTS:

SAMPLE COLLECTION TIME: 0925

PREPARED BY: Kenneth Reese

* 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	7.20
Time pump speed was initialized	0835
Pump speed at flow into cylinder	7.20
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket: 0843

Time	~~2000 hr~~	0850	0857	0903	0910	0919			
Cummulative Volume (mL)	2000	4000	6000	8000	10,000	12,000			

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

PAGE 1 OF 1

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-24

DATE: 3-2-16 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Partly Cloudy 55°F

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

WELL DIAMETER (IN.) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] OTHER | BGS WELL SCREEN INTERVAL: 12.11 FT. to 22.11 FT.

INITIAL WATER LEVEL (BTOC): 14.09 FT. | TIME: 0822 | BTOC WELL SCREEN INTERVAL: 12.29 FT. to 22.29 FT.

MEASURED TOTAL WELL DEPTH (**BGS**): 22.63 FT. | MEASURED TOTAL WELL DEPTH (BTOC): 22.81 FT. | FLUSH-TO-GRADE 0.18 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

LABORATORY PERFORMING ANALYSIS: ~~Xenco~~ TA | 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.)
0840	0	16.94	7.64	129	0.177	0.0	3.78	14.06	
0845	1440	17.63	5.98	165	0.207	0.0	3.37	14.06	
0850	3440	17.73	5.87	169	0.214	0.0	3.21	14.06	
0855	4200	17.81	5.47	192	0.209	0.0	3.21	14.06	
0900	6000	17.81	5.50	191	0.212	0.0	3.08	14.06	
0905	6820	17.79	5.46	194	0.205	0.0	3.10	14.06	
0910	8820	17.81	5.48	195	0.200	0.0	3.12	14.06	
0915	9000	17.82	5.50	167	0.204	0.0	3.58	14.06	
12-0									

Kenneth Rood 3-2-16

COMMENTS:

SAMPLE COLLECTION TIME: 0918

PREPARED BY: Kenneth Rood

* 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.)	20
Initial tubing depth (ft.) BTOC	18.5
Final tubing depth (ft.) BTOC	18.5
Initial pump speed	7.01
Time pump speed was initialized	0838
Pump speed at flow into cylinder	7.01
Started new roll of tubing at	—
Three well volume (mL)	—

2,000 mL volume poured into bucket:

Time	0847	0854	0902	0910					
Cummulative Volume (mL)	2000	4000	6000	8000					

Additional remarks:

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

SEVENTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT B
MARCH 2016 GROUNDWATER ANALYTICAL RESULTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-122659-1
Client Project/Site: 400007-4.5/Bainbridge, GA

For:
Environmental International Corporation
161 Kimball Bridge Road
Suite 100
Alpharetta, Georgia 30009

Attn: Amelia Grant

Authorized for release by:
3/15/2016 11:13:07 AM

Sheila Hoffman, Project Manager II
(912)354-7858 e.3004
sheila.hoffman@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Method Summary

Client: Environmental International Corporation
Project/Site: 400007-4.5/Bainbridge, GA

TestAmerica Job ID: 680-122659-1

Method	Method Description	Protocol	Laboratory
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Environmental International Corporation
Project/Site: 400007-4.5/Bainbridge, GA

TestAmerica Job ID: 680-122659-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-122659-1	MW-1	Water	03/01/16 16:58	03/05/16 11:43
680-122659-2	MW-1A	Water	03/01/16 17:48	03/05/16 11:43
680-122659-3	MW-2	Water	02/29/16 16:55	03/05/16 11:43
680-122659-4	MW-3	Water	03/01/16 14:48	03/05/16 11:43
680-122659-5	MW-4U	Water	03/01/16 15:45	03/05/16 11:43
680-122659-6	MW-5A	Water	03/02/16 16:20	03/05/16 11:43
680-122659-7	MW-5D	Water	03/02/16 17:20	03/05/16 11:43
680-122659-8	MW-6	Water	03/02/16 13:03	03/05/16 11:43
680-122659-9	MW-7	Water	03/03/16 11:13	03/05/16 11:43
680-122659-10	MW-8	Water	03/03/16 18:05	03/05/16 11:43
680-122659-11	MW-10	Water	03/02/16 12:00	03/05/16 11:43
680-122659-12	MW-10 Duplicate	Water	03/03/16 12:00	03/05/16 11:43
680-122659-13	MW-11	Water	02/29/16 18:15	03/05/16 11:43
680-122659-14	MW-12	Water	03/02/16 15:28	03/05/16 11:43
680-122659-15	MW-13	Water	03/02/16 14:48	03/05/16 11:43
680-122659-16	MW-14	Water	03/02/16 11:58	03/05/16 11:43
680-122659-17	MW-15	Water	03/01/16 11:45	03/05/16 11:43
680-122659-18	MW-16	Water	03/03/16 10:34	03/05/16 11:43
680-122659-19	MW-17	Water	03/02/16 10:10	03/05/16 11:43
680-122659-20	MW-18	Water	03/01/16 10:40	03/05/16 11:43
680-122659-21	MW-19	Water	03/01/16 09:41	03/05/16 11:43
680-122659-22	MW-20	Water	03/03/16 16:03	03/05/16 11:43
680-122659-23	MW-21	Water	03/03/16 15:06	03/05/16 11:43
680-122659-24	MW-22	Water	03/03/16 16:50	03/05/16 11:43
680-122659-25	MW-23	Water	03/03/16 09:25	03/05/16 11:43
680-122659-26	MW-24	Water	03/02/16 09:18	03/05/16 11:43
680-122659-27	Equipment Blank	Water	03/03/16 17:15	03/05/16 11:43

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 680-122659-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Environmental International Corporation

Project: 400007-4.5/Bainbridge, GA

Report Number: 680-122659-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 03/05/2016; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.4º C, 1.3º C and 1.4º C

PESTICIDES AND PCBS

Samples MW-1 (680-122659-1), MW-1A (680-122659-2), MW-2 (680-122659-3), MW-3 (680-122659-4), MW-4U (680-122659-5), MW-5A (680-122659-6), MW-5D (680-122659-7), MW-6 (680-122659-8), MW-7 (680-122659-9), MW-8 (680-122659-10), MW-10 (680-122659-11), MW-10 Duplicate (680-122659-12), MW-11 (680-122659-13), MW-12 (680-122659-14), MW-13 (680-122659-15), MW-14 (680-122659-16), MW-15 (680-122659-17), MW-16 (680-122659-18), MW-17 (680-122659-19), MW-18 (680-122659-20), MW-19 (680-122659-21), MW-20 (680-122659-22), MW-21 (680-122659-23), MW-22 (680-122659-24), MW-23 (680-122659-25), MW-24 (680-122659-26) and Equipment Blank (680-122659-27) were analyzed for Pesticides and PCBs in accordance with EPA SW-846 Method 8081B_8082A. The samples were prepared on 03/07/2016, 03/09/2016 and 03/10/2016 and analyzed on 03/09/2016, 03/10/2016 and 03/11/2016.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

Tetrachloro-m-xylene failed the surrogate recovery criteria low for MW-18 (680-122659-20). Tetrachloro-m-xylene failed the surrogate recovery criteria low for MW-7 (680-122659-9). These resutls have been reported and qualified.

Endosulfan I failed the recovery criteria low for the MS of sample MW-22MS (680-122659-24) in batch 680-424738. alpha-BHC, Endosulfan II, beta-BHC and delta-BHC failed the recovery criteria high.

Several analytes failed the recovery criteria high for the MSD of sample MW-22MSD (680-122659-24) in batch 680-424738. Heptachlor exceeded the RPD limit.

Aldrin failed the recovery criteria low for the MS of sample MW-5DMS (680-122659-7) in batch 680-424738. beta-BHC and delta-BHC failed the recovery criteria high.

beta-BHC and delta-BHC failed the recovery criteria high for the MSD of sample MW-5DMSD (680-122659-7) in batch 680-424738.

Refer to the QC report for details.

Samples MW-5A (680-122659-6)[10X], MW-5D (680-122659-7)[10X], MW-6 (680-122659-8)[10X], MW-8 (680-122659-10)[4X], MW-10 (680-122659-11)[20X], MW-10 Duplicate (680-122659-12)[20X], MW-13 (680-122659-15)[10X], MW-20 (680-122659-22)[5X], MW-21 (680-122659-23)[5X], MW-22 (680-122659-24)[40X] and MW-23 (680-122659-25)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Job ID: 680-122659-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample ID: MW-1

Date Collected: 03/01/16 16:58
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-1
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		03/07/16 17:11	03/09/16 02:03	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		03/07/16 17:11	03/09/16 02:03	1
4,4'-DDT	<0.0069		0.050	0.0069	ug/L		03/07/16 17:11	03/09/16 02:03	1
Aldrin	<0.0071		0.050	0.0071	ug/L		03/07/16 17:11	03/09/16 02:03	1
alpha-BHC	<0.0034		0.050	0.0034	ug/L		03/07/16 17:11	03/09/16 02:03	1
beta-BHC	**0.010**	**J p**	0.050	0.0090	ug/L		03/07/16 17:11	03/09/16 02:03	1
Chlordane (technical)	<0.094		0.50	0.094	ug/L		03/07/16 17:11	03/09/16 02:03	1
delta-BHC	<0.0074		0.050	0.0074	ug/L		03/07/16 17:11	03/09/16 02:03	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		03/07/16 17:11	03/09/16 02:03	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		03/07/16 17:11	03/09/16 02:03	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		03/07/16 17:11	03/09/16 02:03	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		03/07/16 17:11	03/09/16 02:03	1
Endrin	<0.0053		0.050	0.0053	ug/L		03/07/16 17:11	03/09/16 02:03	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		03/07/16 17:11	03/09/16 02:03	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		03/07/16 17:11	03/09/16 02:03	1
gamma-BHC (Lindane)	<0.0036		0.050	0.0036	ug/L		03/07/16 17:11	03/09/16 02:03	1
Heptachlor	<0.0070		0.050	0.0070	ug/L		03/07/16 17:11	03/09/16 02:03	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		03/07/16 17:11	03/09/16 02:03	1
Methoxychlor	<0.0097		0.050	0.0097	ug/L		03/07/16 17:11	03/09/16 02:03	1
Toxaphene	<0.40		5.0	0.40	ug/L		03/07/16 17:11	03/09/16 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*39*		*14 - 130*	*03/07/16 17:11*	*03/09/16 02:03*	*1*
Tetrachloro-m-xylene	*41*		*40 - 130*	*03/07/16 17:11*	*03/09/16 02:03*	*1*

Client Sample ID: MW-1A

Date Collected: 03/01/16 17:48
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-2
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		03/07/16 17:11	03/09/16 02:18	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		03/07/16 17:11	03/09/16 02:18	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		03/07/16 17:11	03/09/16 02:18	1
Aldrin	<0.0072		0.050	0.0072	ug/L		03/07/16 17:11	03/09/16 02:18	1
alpha-BHC	**0.011**	**J p**	0.050	0.0034	ug/L		03/07/16 17:11	03/09/16 02:18	1
beta-BHC	**0.033**	**J**	0.050	0.0091	ug/L		03/07/16 17:11	03/09/16 02:18	1
Chlordane (technical)	<0.095		0.50	0.095	ug/L		03/07/16 17:11	03/09/16 02:18	1
delta-BHC	<0.0075		0.050	0.0075	ug/L		03/07/16 17:11	03/09/16 02:18	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		03/07/16 17:11	03/09/16 02:18	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		03/07/16 17:11	03/09/16 02:18	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		03/07/16 17:11	03/09/16 02:18	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		03/07/16 17:11	03/09/16 02:18	1
Endrin	<0.0053		0.050	0.0053	ug/L		03/07/16 17:11	03/09/16 02:18	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		03/07/16 17:11	03/09/16 02:18	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		03/07/16 17:11	03/09/16 02:18	1
gamma-BHC (Lindane)	**0.0054**	**J**	0.050	0.0036	ug/L		03/07/16 17:11	03/09/16 02:18	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		03/07/16 17:11	03/09/16 02:18	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		03/07/16 17:11	03/09/16 02:18	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		03/07/16 17:11	03/09/16 02:18	1

Client: Environmental International Corporation
Project/Site: 400007-4.5/Bainbridge, GA

TestAmerica Job ID: 680-122659-1

Client Sample ID: MW-1A
Date Collected: 03/01/16 17:48
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-2
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	<0.40		5.0	0.40	ug/L		03/07/16 17:11	03/09/16 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*		*14 - 130*	*03/07/16 17:11*	*03/09/16 02:18*	*1*
Tetrachloro-m-xylene	*49*		*40 - 130*	*03/07/16 17:11*	*03/09/16 02:18*	*1*

Client Sample ID: MW-2
Date Collected: 02/29/16 16:55
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-3
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0062		0.049	0.0062	ug/L		03/07/16 17:11	03/09/16 02:32	1
4,4'-DDE	<0.0050		0.049	0.0050	ug/L		03/07/16 17:11	03/09/16 02:32	1
4,4'-DDT	<0.0069		0.049	0.0069	ug/L		03/07/16 17:11	03/09/16 02:32	1
Aldrin	<0.0071		0.049	0.0071	ug/L		03/07/16 17:11	03/09/16 02:32	1
alpha-BHC	<0.0034		0.049	0.0034	ug/L		03/07/16 17:11	03/09/16 02:32	1
beta-BHC	<0.0090		0.049	0.0090	ug/L		03/07/16 17:11	03/09/16 02:32	1
Chlordane (technical)	<0.094		0.49	0.094	ug/L		03/07/16 17:11	03/09/16 02:32	1
delta-BHC	<0.0074		0.049	0.0074	ug/L		03/07/16 17:11	03/09/16 02:32	1
Dieldrin	<0.0037		0.049	0.0037	ug/L		03/07/16 17:11	03/09/16 02:32	1
Endosulfan I	<0.0035		0.049	0.0035	ug/L		03/07/16 17:11	03/09/16 02:32	1
Endosulfan II	<0.0041		0.049	0.0041	ug/L		03/07/16 17:11	03/09/16 02:32	1
Endosulfan sulfate	<0.0050		0.049	0.0050	ug/L		03/07/16 17:11	03/09/16 02:32	1
Endrin	<0.0052		0.049	0.0052	ug/L		03/07/16 17:11	03/09/16 02:32	1
Endrin aldehyde	<0.0060		0.049	0.0060	ug/L		03/07/16 17:11	03/09/16 02:32	1
Endrin ketone	<0.0045		0.049	0.0045	ug/L		03/07/16 17:11	03/09/16 02:32	1
gamma-BHC (Lindane)	<0.0036		0.049	0.0036	ug/L		03/07/16 17:11	03/09/16 02:32	1
Heptachlor	<0.0070		0.049	0.0070	ug/L		03/07/16 17:11	03/09/16 02:32	1
Heptachlor epoxide	<0.0037		0.049	0.0037	ug/L		03/07/16 17:11	03/09/16 02:32	1
Methoxychlor	<0.0097		0.049	0.0097	ug/L		03/07/16 17:11	03/09/16 02:32	1
Toxaphene	<0.39		4.9	0.39	ug/L		03/07/16 17:11	03/09/16 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*27*		*14 - 130*	*03/07/16 17:11*	*03/09/16 02:32*	*1*
Tetrachloro-m-xylene	*51*		*40 - 130*	*03/07/16 17:11*	*03/09/16 02:32*	*1*

Client Sample ID: MW-3
Date Collected: 03/01/16 14:48
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-4
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		03/07/16 17:11	03/09/16 02:47	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		03/07/16 17:11	03/09/16 02:47	1
4,4'-DDT	<0.0069		0.050	0.0069	ug/L		03/07/16 17:11	03/09/16 02:47	1
Aldrin	<0.0071		0.050	0.0071	ug/L		03/07/16 17:11	03/09/16 02:47	1
alpha-BHC	<0.0034		0.050	0.0034	ug/L		03/07/16 17:11	03/09/16 02:47	1
beta-BHC	<0.0090		0.050	0.0090	ug/L		03/07/16 17:11	03/09/16 02:47	1
Chlordane (technical)	<0.094		0.50	0.094	ug/L		03/07/16 17:11	03/09/16 02:47	1

Client Sample ID: MW-3

Date Collected: 03/01/16 14:48
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-4
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	<0.0074		0.050	0.0074	ug/L		03/07/16 17:11	03/09/16 02:47	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		03/07/16 17:11	03/09/16 02:47	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		03/07/16 17:11	03/09/16 02:47	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		03/07/16 17:11	03/09/16 02:47	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		03/07/16 17:11	03/09/16 02:47	1
Endrin	<0.0053		0.050	0.0053	ug/L		03/07/16 17:11	03/09/16 02:47	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		03/07/16 17:11	03/09/16 02:47	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		03/07/16 17:11	03/09/16 02:47	1
gamma-BHC (Lindane)	<0.0036		0.050	0.0036	ug/L		03/07/16 17:11	03/09/16 02:47	1
Heptachlor	<0.0070		0.050	0.0070	ug/L		03/07/16 17:11	03/09/16 02:47	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		03/07/16 17:11	03/09/16 02:47	1
Methoxychlor	<0.0097		0.050	0.0097	ug/L		03/07/16 17:11	03/09/16 02:47	1
Toxaphene	<0.40		5.0	0.40	ug/L		03/07/16 17:11	03/09/16 02:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*14 - 130*	*03/07/16 17:11*	*03/09/16 02:47*	*1*
Tetrachloro-m-xylene	*48*		*40 - 130*	*03/07/16 17:11*	*03/09/16 02:47*	*1*

Client Sample ID: MW-4U

Date Collected: 03/01/16 15:45
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-5
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0062		0.049	0.0062	ug/L		03/07/16 17:11	03/09/16 03:01	1
4,4'-DDE	<0.0050		0.049	0.0050	ug/L		03/07/16 17:11	03/09/16 03:01	1
4,4'-DDT	<0.0069		0.049	0.0069	ug/L		03/07/16 17:11	03/09/16 03:01	1
Aldrin	<0.0071		0.049	0.0071	ug/L		03/07/16 17:11	03/09/16 03:01	1
alpha-BHC	<0.0033		0.049	0.0033	ug/L		03/07/16 17:11	03/09/16 03:01	1
beta-BHC	<0.0089		0.049	0.0089	ug/L		03/07/16 17:11	03/09/16 03:01	1
Chlordane (technical)	<0.093		0.49	0.093	ug/L		03/07/16 17:11	03/09/16 03:01	1
delta-BHC	<0.0073		0.049	0.0073	ug/L		03/07/16 17:11	03/09/16 03:01	1
Dieldrin	<0.0037		0.049	0.0037	ug/L		03/07/16 17:11	03/09/16 03:01	1
Endosulfan I	<0.0034		0.049	0.0034	ug/L		03/07/16 17:11	03/09/16 03:01	1
Endosulfan II	<0.0041		0.049	0.0041	ug/L		03/07/16 17:11	03/09/16 03:01	1
Endosulfan sulfate	<0.0050		0.049	0.0050	ug/L		03/07/16 17:11	03/09/16 03:01	1
Endrin	<0.0052		0.049	0.0052	ug/L		03/07/16 17:11	03/09/16 03:01	1
Endrin aldehyde	<0.0060		0.049	0.0060	ug/L		03/07/16 17:11	03/09/16 03:01	1
Endrin ketone	**0.065**		0.049	0.0045	ug/L		03/07/16 17:11	03/09/16 03:01	1
gamma-BHC (Lindane)	<0.0035		0.049	0.0035	ug/L		03/07/16 17:11	03/09/16 03:01	1
Heptachlor	<0.0070		0.049	0.0070	ug/L		03/07/16 17:11	03/09/16 03:01	1
Heptachlor epoxide	<0.0036		0.049	0.0036	ug/L		03/07/16 17:11	03/09/16 03:01	1
Methoxychlor	<0.0096		0.049	0.0096	ug/L		03/07/16 17:11	03/09/16 03:01	1
Toxaphene	<0.39		4.9	0.39	ug/L		03/07/16 17:11	03/09/16 03:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*	*p*	*14 - 130*	*03/07/16 17:11*	*03/09/16 03:01*	*1*
Tetrachloro-m-xylene	*58*	*p*	*40 - 130*	*03/07/16 17:11*	*03/09/16 03:01*	*1*

Client Sample ID: MW-5A

Date Collected: 03/02/16 16:20
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-6
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		03/09/16 16:13	03/10/16 15:03	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		03/09/16 16:13	03/10/16 15:03	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		03/09/16 16:13	03/10/16 15:03	1
Aldrin	<0.0072		0.050	0.0072	ug/L		03/09/16 16:13	03/10/16 15:03	1
alpha-BHC	**0.29**		0.050	0.0034	ug/L		03/09/16 16:13	03/10/16 15:03	1
beta-BHC	**3.0**		0.50	0.091	ug/L		03/09/16 16:13	03/11/16 14:01	10
Chlordane (technical)	<0.095		0.50	0.095	ug/L		03/09/16 16:13	03/10/16 15:03	1
delta-BHC	**0.60**		0.050	0.0075	ug/L		03/09/16 16:13	03/10/16 15:03	1
Dieldrin	**2.2**		0.50	0.038	ug/L		03/09/16 16:13	03/11/16 14:01	10
Endosulfan I	<0.0035		0.050	0.0035	ug/L		03/09/16 16:13	03/10/16 15:03	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		03/09/16 16:13	03/10/16 15:03	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		03/09/16 16:13	03/10/16 15:03	1
Endrin	<0.0053		0.050	0.0053	ug/L		03/09/16 16:13	03/10/16 15:03	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		03/09/16 16:13	03/10/16 15:03	1
Endrin ketone	**0.13**		0.050	0.0046	ug/L		03/09/16 16:13	03/10/16 15:03	1
gamma-BHC (Lindane)	**0.13**		0.050	0.0036	ug/L		03/09/16 16:13	03/10/16 15:03	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		03/09/16 16:13	03/10/16 15:03	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		03/09/16 16:13	03/10/16 15:03	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		03/09/16 16:13	03/10/16 15:03	1
Toxaphene	<0.40		5.0	0.40	ug/L		03/09/16 16:13	03/10/16 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*89*		*14 - 130*	*03/09/16 16:13*	*03/10/16 15:03*	*1*
Tetrachloro-m-xylene	*68*		*40 - 130*	*03/09/16 16:13*	*03/10/16 15:03*	*1*

Client Sample ID: MW-5D

Date Collected: 03/02/16 17:20
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-7
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063	F1	0.050	0.0063	ug/L		03/09/16 16:13	03/10/16 19:01	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		03/09/16 16:13	03/10/16 19:01	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		03/09/16 16:13	03/10/16 19:01	1
Aldrin	<0.0072	F1	0.050	0.0072	ug/L		03/09/16 16:13	03/10/16 19:01	1
alpha-BHC	**0.18**		0.050	0.0034	ug/L		03/09/16 16:13	03/10/16 19:01	1
beta-BHC	**3.8**		0.50	0.091	ug/L		03/09/16 16:13	03/11/16 14:15	10
Chlordane (technical)	<0.095		0.50	0.095	ug/L		03/09/16 16:13	03/10/16 19:01	1
delta-BHC	**1.2**		0.50	0.075	ug/L		03/09/16 16:13	03/11/16 14:15	10
Dieldrin	**0.13**		0.050	0.0038	ug/L		03/09/16 16:13	03/10/16 19:01	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		03/09/16 16:13	03/10/16 19:01	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		03/09/16 16:13	03/10/16 19:01	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		03/09/16 16:13	03/10/16 19:01	1
Endrin	<0.0053		0.050	0.0053	ug/L		03/09/16 16:13	03/10/16 19:01	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		03/09/16 16:13	03/10/16 19:01	1
Endrin ketone	**0.015**	**J**	0.050	0.0046	ug/L		03/09/16 16:13	03/10/16 19:01	1
gamma-BHC (Lindane)	**0.16**		0.050	0.0036	ug/L		03/09/16 16:13	03/10/16 19:01	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		03/09/16 16:13	03/10/16 19:01	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		03/09/16 16:13	03/10/16 19:01	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		03/09/16 16:13	03/10/16 19:01	1

Client: Environmental International Corporation
Project/Site: 400007-4.5/Bainbridge, GA

TestAmerica Job ID: 680-122659-1

Client Sample ID: MW-5D

Lab Sample ID: 680-122659-7
Date Collected: 03/02/16 17:20
Matrix: Water
Date Received: 03/05/16 11:43

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	<0.40		5.0	0.40	ug/L		03/09/16 16:13	03/10/16 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*41*		*14 - 130*	*03/09/16 16:13*	*03/10/16 19:01*	*1*
Tetrachloro-m-xylene	*56*		*40 - 130*	*03/09/16 16:13*	*03/10/16 19:01*	*1*

Client Sample ID: MW-6

Lab Sample ID: 680-122659-8
Date Collected: 03/02/16 13:03
Matrix: Water
Date Received: 03/05/16 11:43

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0062		0.049	0.0062	ug/L		03/09/16 16:13	03/10/16 15:18	1
4,4'-DDE	<0.0050		0.049	0.0050	ug/L		03/09/16 16:13	03/10/16 15:18	1
4,4'-DDT	<0.0069		0.049	0.0069	ug/L		03/09/16 16:13	03/10/16 15:18	1
Aldrin	<0.0071		0.049	0.0071	ug/L		03/09/16 16:13	03/10/16 15:18	1
alpha-BHC	**0.77**		0.49	0.034	ug/L		03/09/16 16:13	03/11/16 14:58	10
beta-BHC	**1.5**		0.49	0.090	ug/L		03/09/16 16:13	03/11/16 14:58	10
Chlordane (technical)	<0.094		0.49	0.094	ug/L		03/09/16 16:13	03/10/16 15:18	1
delta-BHC	**1.9**	**p**	0.49	0.074	ug/L		03/09/16 16:13	03/11/16 14:58	10
Dieldrin	<0.0037		0.049	0.0037	ug/L		03/09/16 16:13	03/10/16 15:18	1
Endosulfan I	<0.0035		0.049	0.0035	ug/L		03/09/16 16:13	03/10/16 15:18	1
Endosulfan II	<0.0041		0.049	0.0041	ug/L		03/09/16 16:13	03/10/16 15:18	1
Endosulfan sulfate	<0.0050		0.049	0.0050	ug/L		03/09/16 16:13	03/10/16 15:18	1
Endrin	<0.0052		0.049	0.0052	ug/L		03/09/16 16:13	03/10/16 15:18	1
Endrin aldehyde	<0.0060		0.049	0.0060	ug/L		03/09/16 16:13	03/10/16 15:18	1
Endrin ketone	<0.0045		0.049	0.0045	ug/L		03/09/16 16:13	03/10/16 15:18	1
gamma-BHC (Lindane)	**0.010**	**J p**	0.049	0.0035	ug/L		03/09/16 16:13	03/10/16 15:18	1
Heptachlor	<0.0070		0.049	0.0070	ug/L		03/09/16 16:13	03/10/16 15:18	1
Heptachlor epoxide	<0.0036		0.049	0.0036	ug/L		03/09/16 16:13	03/10/16 15:18	1
Methoxychlor	<0.0097		0.049	0.0097	ug/L		03/09/16 16:13	03/10/16 15:18	1
Toxaphene	<0.39		4.9	0.39	ug/L		03/09/16 16:13	03/10/16 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*64*		*14 - 130*	*03/09/16 16:13*	*03/10/16 15:18*	*1*
Tetrachloro-m-xylene	*42*		*40 - 130*	*03/09/16 16:13*	*03/10/16 15:18*	*1*

Client Sample ID: MW-7

Lab Sample ID: 680-122659-9
Date Collected: 03/03/16 11:13
Matrix: Water
Date Received: 03/05/16 11:43

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		03/10/16 15:39	03/11/16 14:50	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		03/10/16 15:39	03/11/16 14:50	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		03/10/16 15:39	03/11/16 14:50	1
Aldrin	<0.0072		0.050	0.0072	ug/L		03/10/16 15:39	03/11/16 14:50	1
alpha-BHC	**0.013**	**J**	0.050	0.0034	ug/L		03/10/16 15:39	03/11/16 14:50	1
beta-BHC	**0.14**		0.050	0.0091	ug/L		03/10/16 15:39	03/11/16 14:50	1
Chlordane (technical)	<0.095		0.50	0.095	ug/L		03/10/16 15:39	03/11/16 14:50	1

Client Sample ID: MW-7

Date Collected: 03/03/16 11:13
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-9
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	<0.0075		0.050	0.0075	ug/L		03/10/16 15:39	03/11/16 14:50	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		03/10/16 15:39	03/11/16 14:50	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		03/10/16 15:39	03/11/16 14:50	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		03/10/16 15:39	03/11/16 14:50	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		03/10/16 15:39	03/11/16 14:50	1
Endrin	<0.0053		0.050	0.0053	ug/L		03/10/16 15:39	03/11/16 14:50	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		03/10/16 15:39	03/11/16 14:50	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		03/10/16 15:39	03/11/16 14:50	1
gamma-BHC (Lindane)	<0.0036		0.050	0.0036	ug/L		03/10/16 15:39	03/11/16 14:50	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		03/10/16 15:39	03/11/16 14:50	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		03/10/16 15:39	03/11/16 14:50	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		03/10/16 15:39	03/11/16 14:50	1
Toxaphene	<0.40		5.0	0.40	ug/L		03/10/16 15:39	03/11/16 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*53*		*14 - 130*	*03/10/16 15:39*	*03/11/16 14:50*	*1*
Tetrachloro-m-xylene	*36*	*X*	*40 - 130*	*03/10/16 15:39*	*03/11/16 14:50*	*1*

Client Sample ID: MW-8

Date Collected: 03/03/16 18:05
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-10
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0062		0.050	0.0062	ug/L		03/10/16 15:39	03/11/16 15:06	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		03/10/16 15:39	03/11/16 15:06	1
4,4'-DDT	<0.0069		0.050	0.0069	ug/L		03/10/16 15:39	03/11/16 15:06	1
Aldrin	<0.0071		0.050	0.0071	ug/L		03/10/16 15:39	03/11/16 15:06	1
alpha-BHC	**0.043**	**J**	0.050	0.0034	ug/L		03/10/16 15:39	03/11/16 15:06	1
beta-BHC	**1.0**		0.20	0.036	ug/L		03/10/16 15:39	03/11/16 17:06	4
Chlordane (technical)	<0.094		0.50	0.094	ug/L		03/10/16 15:39	03/11/16 15:06	1
delta-BHC	**0.056**		0.050	0.0074	ug/L		03/10/16 15:39	03/11/16 15:06	1
Dieldrin	**0.018**	**J**	0.050	0.0038	ug/L		03/10/16 15:39	03/11/16 15:06	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		03/10/16 15:39	03/11/16 15:06	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		03/10/16 15:39	03/11/16 15:06	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		03/10/16 15:39	03/11/16 15:06	1
Endrin	<0.0052		0.050	0.0052	ug/L		03/10/16 15:39	03/11/16 15:06	1
Endrin aldehyde	**0.0066**	**J**	0.050	0.0060	ug/L		03/10/16 15:39	03/11/16 15:06	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		03/10/16 15:39	03/11/16 15:06	1
gamma-BHC (Lindane)	**0.030**	**J**	0.050	0.0036	ug/L		03/10/16 15:39	03/11/16 15:06	1
Heptachlor	<0.0070		0.050	0.0070	ug/L		03/10/16 15:39	03/11/16 15:06	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		03/10/16 15:39	03/11/16 15:06	1
Methoxychlor	<0.0097		0.050	0.0097	ug/L		03/10/16 15:39	03/11/16 15:06	1
Toxaphene	<0.40		5.0	0.40	ug/L		03/10/16 15:39	03/11/16 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*76*		*14 - 130*	*03/10/16 15:39*	*03/11/16 15:06*	*1*
Tetrachloro-m-xylene	*43*		*40 - 130*	*03/10/16 15:39*	*03/11/16 15:06*	*1*

Client Sample ID: MW-10

Date Collected: 03/02/16 12:00
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-11

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0062		0.049	0.0062	ug/L		03/09/16 16:13	03/10/16 15:32	1
4,4'-DDE	<0.0050		0.049	0.0050	ug/L		03/09/16 16:13	03/10/16 15:32	1
4,4'-DDT	<0.0068		0.049	0.0068	ug/L		03/09/16 16:13	03/10/16 15:32	1
Aldrin	<0.0070		0.049	0.0070	ug/L		03/09/16 16:13	03/10/16 15:32	1
alpha-BHC	**0.40**		0.049	0.0033	ug/L		03/09/16 16:13	03/10/16 15:32	1
beta-BHC	**6.8**		0.98	0.18	ug/L		03/09/16 16:13	03/11/16 15:13	20
Chlordane (technical)	<0.093		0.49	0.093	ug/L		03/09/16 16:13	03/10/16 15:32	1
delta-BHC	**0.38**	**p**	0.049	0.0073	ug/L		03/09/16 16:13	03/10/16 15:32	1
Dieldrin	<0.0037		0.049	0.0037	ug/L		03/09/16 16:13	03/10/16 15:32	1
Endosulfan I	<0.0034		0.049	0.0034	ug/L		03/09/16 16:13	03/10/16 15:32	1
Endosulfan II	<0.0041		0.049	0.0041	ug/L		03/09/16 16:13	03/10/16 15:32	1
Endosulfan sulfate	<0.0050		0.049	0.0050	ug/L		03/09/16 16:13	03/10/16 15:32	1
Endrin	<0.0052		0.049	0.0052	ug/L		03/09/16 16:13	03/10/16 15:32	1
Endrin aldehyde	<0.0060		0.049	0.0060	ug/L		03/09/16 16:13	03/10/16 15:32	1
Endrin ketone	<0.0045		0.049	0.0045	ug/L		03/09/16 16:13	03/10/16 15:32	1
gamma-BHC (Lindane)	**0.18**		0.049	0.0035	ug/L		03/09/16 16:13	03/10/16 15:32	1
Heptachlor	<0.0069		0.049	0.0069	ug/L		03/09/16 16:13	03/10/16 15:32	1
Heptachlor epoxide	<0.0036		0.049	0.0036	ug/L		03/09/16 16:13	03/10/16 15:32	1
Methoxychlor	<0.0096		0.049	0.0096	ug/L		03/09/16 16:13	03/10/16 15:32	1
Toxaphene	<0.39		4.9	0.39	ug/L		03/09/16 16:13	03/10/16 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*14 - 130*	*03/09/16 16:13*	*03/10/16 15:32*	*1*
Tetrachloro-m-xylene	*59*		*40 - 130*	*03/09/16 16:13*	*03/10/16 15:32*	*1*

Client Sample ID: MW-10 Duplicate

Date Collected: 03/03/16 12:00
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-12

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		03/10/16 15:39	03/11/16 15:21	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		03/10/16 15:39	03/11/16 15:21	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		03/10/16 15:39	03/11/16 15:21	1
Aldrin	<0.0072		0.050	0.0072	ug/L		03/10/16 15:39	03/11/16 15:21	1
alpha-BHC	**0.37**		0.050	0.0034	ug/L		03/10/16 15:39	03/11/16 15:21	1
beta-BHC	**6.5**		1.0	0.18	ug/L		03/10/16 15:39	03/11/16 17:20	20
Chlordane (technical)	<0.095		0.50	0.095	ug/L		03/10/16 15:39	03/11/16 15:21	1
delta-BHC	**0.36**	**p**	0.050	0.0075	ug/L		03/10/16 15:39	03/11/16 15:21	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		03/10/16 15:39	03/11/16 15:21	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		03/10/16 15:39	03/11/16 15:21	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		03/10/16 15:39	03/11/16 15:21	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		03/10/16 15:39	03/11/16 15:21	1
Endrin	<0.0053		0.050	0.0053	ug/L		03/10/16 15:39	03/11/16 15:21	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		03/10/16 15:39	03/11/16 15:21	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		03/10/16 15:39	03/11/16 15:21	1
gamma-BHC (Lindane)	**0.17**		0.050	0.0036	ug/L		03/10/16 15:39	03/11/16 15:21	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		03/10/16 15:39	03/11/16 15:21	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		03/10/16 15:39	03/11/16 15:21	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		03/10/16 15:39	03/11/16 15:21	1

Client Sample ID: MW-10 Duplicate

Date Collected: 03/03/16 12:00
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-12
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	<0.40		5.0	0.40	ug/L		03/10/16 15:39	03/11/16 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*47*		*14 - 130*	*03/10/16 15:39*	*03/11/16 15:21*	*1*
Tetrachloro-m-xylene	*49*		*40 - 130*	*03/10/16 15:39*	*03/11/16 15:21*	*1*

Client Sample ID: MW-11

Date Collected: 02/29/16 18:15
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-13
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0062		0.049	0.0062	ug/L		03/07/16 17:11	03/10/16 16:59	1
4,4'-DDE	<0.0050		0.049	0.0050	ug/L		03/07/16 17:11	03/10/16 16:59	1
4,4'-DDT	<0.0069		0.049	0.0069	ug/L		03/07/16 17:11	03/10/16 16:59	1
Aldrin	<0.0071		0.049	0.0071	ug/L		03/07/16 17:11	03/10/16 16:59	1
alpha-BHC	<0.0033		0.049	0.0033	ug/L		03/07/16 17:11	03/10/16 16:59	1
beta-BHC	<0.0089		0.049	0.0089	ug/L		03/07/16 17:11	03/10/16 16:59	1
Chlordane (technical)	<0.093		0.49	0.093	ug/L		03/07/16 17:11	03/10/16 16:59	1
delta-BHC	<0.0073		0.049	0.0073	ug/L		03/07/16 17:11	03/10/16 16:59	1
Dieldrin	<0.0037		0.049	0.0037	ug/L		03/07/16 17:11	03/10/16 16:59	1
Endosulfan I	<0.0034		0.049	0.0034	ug/L		03/07/16 17:11	03/10/16 16:59	1
Endosulfan II	<0.0041		0.049	0.0041	ug/L		03/07/16 17:11	03/10/16 16:59	1
Endosulfan sulfate	<0.0050		0.049	0.0050	ug/L		03/07/16 17:11	03/10/16 16:59	1
Endrin	<0.0052		0.049	0.0052	ug/L		03/07/16 17:11	03/10/16 16:59	1
Endrin aldehyde	<0.0060		0.049	0.0060	ug/L		03/07/16 17:11	03/10/16 16:59	1
Endrin ketone	<0.0045		0.049	0.0045	ug/L		03/07/16 17:11	03/10/16 16:59	1
gamma-BHC (Lindane)	<0.0035		0.049	0.0035	ug/L		03/07/16 17:11	03/10/16 16:59	1
Heptachlor	<0.0070		0.049	0.0070	ug/L		03/07/16 17:11	03/10/16 16:59	1
Heptachlor epoxide	<0.0036		0.049	0.0036	ug/L		03/07/16 17:11	03/10/16 16:59	1
Methoxychlor	<0.0096		0.049	0.0096	ug/L		03/07/16 17:11	03/10/16 16:59	1
Toxaphene	<0.39		4.9	0.39	ug/L		03/07/16 17:11	03/10/16 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*14 - 130*	*03/07/16 17:11*	*03/10/16 16:59*	*1*
Tetrachloro-m-xylene	*61*		*40 - 130*	*03/07/16 17:11*	*03/10/16 16:59*	*1*

Client Sample ID: MW-12

Date Collected: 03/02/16 15:28
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-14
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0062		0.050	0.0062	ug/L		03/09/16 16:13	03/10/16 15:47	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		03/09/16 16:13	03/10/16 15:47	1
4,4'-DDT	<0.0069		0.050	0.0069	ug/L		03/09/16 16:13	03/10/16 15:47	1
Aldrin	<0.0071		0.050	0.0071	ug/L		03/09/16 16:13	03/10/16 15:47	1
alpha-BHC	**0.0063**	**J p**	0.050	0.0034	ug/L		03/09/16 16:13	03/10/16 15:47	1
beta-BHC	**0.47**		0.050	0.0090	ug/L		03/09/16 16:13	03/10/16 15:47	1
Chlordane (technical)	<0.094		0.50	0.094	ug/L		03/09/16 16:13	03/10/16 15:47	1

Client Sample ID: MW-12

Date Collected: 03/02/16 15:28
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-14
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	<0.0074		0.050	0.0074	ug/L		03/09/16 16:13	03/10/16 15:47	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		03/09/16 16:13	03/10/16 15:47	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		03/09/16 16:13	03/10/16 15:47	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		03/09/16 16:13	03/10/16 15:47	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		03/09/16 16:13	03/10/16 15:47	1
Endrin	<0.0053		0.050	0.0053	ug/L		03/09/16 16:13	03/10/16 15:47	1
Endrin aldehyde	<0.0060		0.050	0.0060	ug/L		03/09/16 16:13	03/10/16 15:47	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		03/09/16 16:13	03/10/16 15:47	1
gamma-BHC (Lindane)	<0.0036		0.050	0.0036	ug/L		03/09/16 16:13	03/10/16 15:47	1
Heptachlor	<0.0070		0.050	0.0070	ug/L		03/09/16 16:13	03/10/16 15:47	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		03/09/16 16:13	03/10/16 15:47	1
Methoxychlor	<0.0097		0.050	0.0097	ug/L		03/09/16 16:13	03/10/16 15:47	1
Toxaphene	<0.40		5.0	0.40	ug/L		03/09/16 16:13	03/10/16 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*14 - 130*	*03/09/16 16:13*	*03/10/16 15:47*	*1*
Tetrachloro-m-xylene	*50*		*40 - 130*	*03/09/16 16:13*	*03/10/16 15:47*	*1*

Client Sample ID: MW-13

Date Collected: 03/02/16 14:48
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-15
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		03/09/16 16:13	03/10/16 16:01	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		03/09/16 16:13	03/10/16 16:01	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		03/09/16 16:13	03/10/16 16:01	1
Aldrin	<0.0072		0.050	0.0072	ug/L		03/09/16 16:13	03/10/16 16:01	1
alpha-BHC	**0.028**	**J**	0.050	0.0034	ug/L		03/09/16 16:13	03/10/16 16:01	1
beta-BHC	**4.5**		0.50	0.091	ug/L		03/09/16 16:13	03/11/16 15:27	10
Chlordane (technical)	<0.095		0.50	0.095	ug/L		03/09/16 16:13	03/10/16 16:01	1
delta-BHC	**0.038**	**J p**	0.050	0.0075	ug/L		03/09/16 16:13	03/10/16 16:01	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		03/09/16 16:13	03/10/16 16:01	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		03/09/16 16:13	03/10/16 16:01	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		03/09/16 16:13	03/10/16 16:01	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		03/09/16 16:13	03/10/16 16:01	1
Endrin	<0.0053		0.050	0.0053	ug/L		03/09/16 16:13	03/10/16 16:01	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		03/09/16 16:13	03/10/16 16:01	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		03/09/16 16:13	03/10/16 16:01	1
gamma-BHC (Lindane)	**0.022**	**J p**	0.050	0.0036	ug/L		03/09/16 16:13	03/10/16 16:01	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		03/09/16 16:13	03/10/16 16:01	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		03/09/16 16:13	03/10/16 16:01	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		03/09/16 16:13	03/10/16 16:01	1
Toxaphene	<0.40		5.0	0.40	ug/L		03/09/16 16:13	03/10/16 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*61*		*14 - 130*	*03/09/16 16:13*	*03/10/16 16:01*	*1*
Tetrachloro-m-xylene	*54*		*40 - 130*	*03/09/16 16:13*	*03/10/16 16:01*	*1*

Client Sample ID: MW-14

Date Collected: 03/02/16 11:58
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-16
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		03/09/16 16:13	03/10/16 16:16	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		03/09/16 16:13	03/10/16 16:16	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		03/09/16 16:13	03/10/16 16:16	1
Aldrin	<0.0072		0.050	0.0072	ug/L		03/09/16 16:13	03/10/16 16:16	1
alpha-BHC	<0.0034		0.050	0.0034	ug/L		03/09/16 16:13	03/10/16 16:16	1
beta-BHC	**0.13**		0.050	0.0091	ug/L		03/09/16 16:13	03/10/16 16:16	1
Chlordane (technical)	<0.095		0.50	0.095	ug/L		03/09/16 16:13	03/10/16 16:16	1
delta-BHC	<0.0075		0.050	0.0075	ug/L		03/09/16 16:13	03/10/16 16:16	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		03/09/16 16:13	03/10/16 16:16	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		03/09/16 16:13	03/10/16 16:16	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		03/09/16 16:13	03/10/16 16:16	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		03/09/16 16:13	03/10/16 16:16	1
Endrin	<0.0053		0.050	0.0053	ug/L		03/09/16 16:13	03/10/16 16:16	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		03/09/16 16:13	03/10/16 16:16	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		03/09/16 16:13	03/10/16 16:16	1
gamma-BHC (Lindane)	<0.0036		0.050	0.0036	ug/L		03/09/16 16:13	03/10/16 16:16	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		03/09/16 16:13	03/10/16 16:16	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		03/09/16 16:13	03/10/16 16:16	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		03/09/16 16:13	03/10/16 16:16	1
Toxaphene	<0.40		5.0	0.40	ug/L		03/09/16 16:13	03/10/16 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*69*		*14 - 130*	*03/09/16 16:13*	*03/10/16 16:16*	*1*
Tetrachloro-m-xylene	*46*		*40 - 130*	*03/09/16 16:13*	*03/10/16 16:16*	*1*

Client Sample ID: MW-15

Date Collected: 03/01/16 11:45
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-17
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0062		0.049	0.0062	ug/L		03/07/16 17:11	03/10/16 17:14	1
4,4'-DDE	<0.0050		0.049	0.0050	ug/L		03/07/16 17:11	03/10/16 17:14	1
4,4'-DDT	<0.0068		0.049	0.0068	ug/L		03/07/16 17:11	03/10/16 17:14	1
Aldrin	<0.0070		0.049	0.0070	ug/L		03/07/16 17:11	03/10/16 17:14	1
alpha-BHC	**0.11**		0.049	0.0033	ug/L		03/07/16 17:11	03/10/16 17:14	1
beta-BHC	**0.41**		0.049	0.0089	ug/L		03/07/16 17:11	03/10/16 17:14	1
Chlordane (technical)	<0.093		0.49	0.093	ug/L		03/07/16 17:11	03/10/16 17:14	1
delta-BHC	**0.013**	**J p**	0.049	0.0073	ug/L		03/07/16 17:11	03/10/16 17:14	1
Dieldrin	<0.0037		0.049	0.0037	ug/L		03/07/16 17:11	03/10/16 17:14	1
Endosulfan I	<0.0034		0.049	0.0034	ug/L		03/07/16 17:11	03/10/16 17:14	1
Endosulfan II	<0.0041		0.049	0.0041	ug/L		03/07/16 17:11	03/10/16 17:14	1
Endosulfan sulfate	<0.0050		0.049	0.0050	ug/L		03/07/16 17:11	03/10/16 17:14	1
Endrin	<0.0052		0.049	0.0052	ug/L		03/07/16 17:11	03/10/16 17:14	1
Endrin aldehyde	<0.0060		0.049	0.0060	ug/L		03/07/16 17:11	03/10/16 17:14	1
Endrin ketone	<0.0045		0.049	0.0045	ug/L		03/07/16 17:11	03/10/16 17:14	1
gamma-BHC (Lindane)	**0.065**		0.049	0.0035	ug/L		03/07/16 17:11	03/10/16 17:14	1
Heptachlor	<0.0069		0.049	0.0069	ug/L		03/07/16 17:11	03/10/16 17:14	1
Heptachlor epoxide	<0.0036		0.049	0.0036	ug/L		03/07/16 17:11	03/10/16 17:14	1
Methoxychlor	<0.0096		0.049	0.0096	ug/L		03/07/16 17:11	03/10/16 17:14	1

Client: Environmental International Corporation
Project/Site: 400007-4.5/Bainbridge, GA

TestAmerica Job ID: 680-122659-1

Client Sample ID: MW-15

Lab Sample ID: 680-122659-17

Date Collected: 03/01/16 11:45

Matrix: Water

Date Received: 03/05/16 11:43

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	<0.39		4.9	0.39	ug/L		03/07/16 17:11	03/10/16 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*50*		*14 - 130*	*03/07/16 17:11*	*03/10/16 17:14*	*1*
Tetrachloro-m-xylene	*78*		*40 - 130*	*03/07/16 17:11*	*03/10/16 17:14*	*1*

Client Sample ID: MW-16

Lab Sample ID: 680-122659-18

Date Collected: 03/03/16 10:34

Matrix: Water

Date Received: 03/05/16 11:43

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		03/10/16 15:39	03/11/16 15:37	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		03/10/16 15:39	03/11/16 15:37	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		03/10/16 15:39	03/11/16 15:37	1
Aldrin	<0.0072		0.050	0.0072	ug/L		03/10/16 15:39	03/11/16 15:37	1
alpha-BHC	<0.0034		0.050	0.0034	ug/L		03/10/16 15:39	03/11/16 15:37	1
beta-BHC	<0.0091		0.050	0.0091	ug/L		03/10/16 15:39	03/11/16 15:37	1
Chlordane (technical)	<0.095		0.50	0.095	ug/L		03/10/16 15:39	03/11/16 15:37	1
delta-BHC	<0.0075		0.050	0.0075	ug/L		03/10/16 15:39	03/11/16 15:37	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		03/10/16 15:39	03/11/16 15:37	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		03/10/16 15:39	03/11/16 15:37	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		03/10/16 15:39	03/11/16 15:37	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		03/10/16 15:39	03/11/16 15:37	1
Endrin	<0.0053		0.050	0.0053	ug/L		03/10/16 15:39	03/11/16 15:37	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		03/10/16 15:39	03/11/16 15:37	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		03/10/16 15:39	03/11/16 15:37	1
gamma-BHC (Lindane)	<0.0036		0.050	0.0036	ug/L		03/10/16 15:39	03/11/16 15:37	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		03/10/16 15:39	03/11/16 15:37	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		03/10/16 15:39	03/11/16 15:37	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		03/10/16 15:39	03/11/16 15:37	1
Toxaphene	<0.40		5.0	0.40	ug/L		03/10/16 15:39	03/11/16 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*52*		*14 - 130*	*03/10/16 15:39*	*03/11/16 15:37*	*1*
Tetrachloro-m-xylene	*47*		*40 - 130*	*03/10/16 15:39*	*03/11/16 15:37*	*1*

Client Sample ID: MW-17

Lab Sample ID: 680-122659-19

Date Collected: 03/02/16 10:10

Matrix: Water

Date Received: 03/05/16 11:43

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		03/09/16 16:13	03/10/16 16:30	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		03/09/16 16:13	03/10/16 16:30	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		03/09/16 16:13	03/10/16 16:30	1
Aldrin	<0.0071		0.050	0.0071	ug/L		03/09/16 16:13	03/10/16 16:30	1
alpha-BHC	**0.0054**	**J p**	0.050	0.0034	ug/L		03/09/16 16:13	03/10/16 16:30	1
beta-BHC	**0.24**		0.050	0.0090	ug/L		03/09/16 16:13	03/10/16 16:30	1
Chlordane (technical)	<0.094		0.50	0.094	ug/L		03/09/16 16:13	03/10/16 16:30	1

Client Sample ID: MW-17

Date Collected: 03/02/16 10:10
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-19

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	**0.012**	**J p**	0.050	0.0074	ug/L		03/09/16 16:13	03/10/16 16:30	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		03/09/16 16:13	03/10/16 16:30	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		03/09/16 16:13	03/10/16 16:30	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		03/09/16 16:13	03/10/16 16:30	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		03/09/16 16:13	03/10/16 16:30	1
Endrin	<0.0053		0.050	0.0053	ug/L		03/09/16 16:13	03/10/16 16:30	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		03/09/16 16:13	03/10/16 16:30	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		03/09/16 16:13	03/10/16 16:30	1
gamma-BHC (Lindane)	**0.0053**	**J**	0.050	0.0036	ug/L		03/09/16 16:13	03/10/16 16:30	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		03/09/16 16:13	03/10/16 16:30	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		03/09/16 16:13	03/10/16 16:30	1
Methoxychlor	<0.0097		0.050	0.0097	ug/L		03/09/16 16:13	03/10/16 16:30	1
Toxaphene	<0.40		5.0	0.40	ug/L		03/09/16 16:13	03/10/16 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*90*		*14 - 130*	*03/09/16 16:13*	*03/10/16 16:30*	*1*
Tetrachloro-m-xylene	*56*		*40 - 130*	*03/09/16 16:13*	*03/10/16 16:30*	*1*

Client Sample ID: MW-18

Date Collected: 03/01/16 10:40
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-20

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		03/07/16 17:11	03/10/16 17:28	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		03/07/16 17:11	03/10/16 17:28	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		03/07/16 17:11	03/10/16 17:28	1
Aldrin	<0.0072		0.050	0.0072	ug/L		03/07/16 17:11	03/10/16 17:28	1
alpha-BHC	<0.0034		0.050	0.0034	ug/L		03/07/16 17:11	03/10/16 17:28	1
beta-BHC	**0.18**		0.050	0.0091	ug/L		03/07/16 17:11	03/10/16 17:28	1
Chlordane (technical)	<0.095		0.50	0.095	ug/L		03/07/16 17:11	03/10/16 17:28	1
delta-BHC	<0.0075		0.050	0.0075	ug/L		03/07/16 17:11	03/10/16 17:28	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		03/07/16 17:11	03/10/16 17:28	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		03/07/16 17:11	03/10/16 17:28	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		03/07/16 17:11	03/10/16 17:28	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		03/07/16 17:11	03/10/16 17:28	1
Endrin	<0.0053		0.050	0.0053	ug/L		03/07/16 17:11	03/10/16 17:28	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		03/07/16 17:11	03/10/16 17:28	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		03/07/16 17:11	03/10/16 17:28	1
gamma-BHC (Lindane)	<0.0036		0.050	0.0036	ug/L		03/07/16 17:11	03/10/16 17:28	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		03/07/16 17:11	03/10/16 17:28	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		03/07/16 17:11	03/10/16 17:28	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		03/07/16 17:11	03/10/16 17:28	1
Toxaphene	<0.40		5.0	0.40	ug/L		03/07/16 17:11	03/10/16 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*85*		*14 - 130*	*03/07/16 17:11*	*03/10/16 17:28*	*1*
Tetrachloro-m-xylene	*28*	*X*	*40 - 130*	*03/07/16 17:11*	*03/10/16 17:28*	*1*

Client Sample ID: MW-19

Date Collected: 03/01/16 09:41
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-21

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		03/07/16 17:11	03/10/16 17:43	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		03/07/16 17:11	03/10/16 17:43	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		03/07/16 17:11	03/10/16 17:43	1
Aldrin	<0.0072		0.050	0.0072	ug/L		03/07/16 17:11	03/10/16 17:43	1
alpha-BHC	<0.0034		0.050	0.0034	ug/L		03/07/16 17:11	03/10/16 17:43	1
beta-BHC	**0.058**		0.050	0.0091	ug/L		03/07/16 17:11	03/10/16 17:43	1
Chlordane (technical)	<0.095		0.50	0.095	ug/L		03/07/16 17:11	03/10/16 17:43	1
delta-BHC	<0.0075		0.050	0.0075	ug/L		03/07/16 17:11	03/10/16 17:43	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		03/07/16 17:11	03/10/16 17:43	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		03/07/16 17:11	03/10/16 17:43	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		03/07/16 17:11	03/10/16 17:43	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		03/07/16 17:11	03/10/16 17:43	1
Endrin	<0.0053		0.050	0.0053	ug/L		03/07/16 17:11	03/10/16 17:43	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		03/07/16 17:11	03/10/16 17:43	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		03/07/16 17:11	03/10/16 17:43	1
gamma-BHC (Lindane)	<0.0036		0.050	0.0036	ug/L		03/07/16 17:11	03/10/16 17:43	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		03/07/16 17:11	03/10/16 17:43	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		03/07/16 17:11	03/10/16 17:43	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		03/07/16 17:11	03/10/16 17:43	1
Toxaphene	<0.40		5.0	0.40	ug/L		03/07/16 17:11	03/10/16 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*82*		*14 - 130*	*03/07/16 17:11*	*03/10/16 17:43*	*1*
Tetrachloro-m-xylene	*56*		*40 - 130*	*03/07/16 17:11*	*03/10/16 17:43*	*1*

Client Sample ID: MW-20

Date Collected: 03/03/16 16:03
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-22

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		03/10/16 15:39	03/11/16 15:52	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		03/10/16 15:39	03/11/16 15:52	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		03/10/16 15:39	03/11/16 15:52	1
Aldrin	<0.0071		0.050	0.0071	ug/L		03/10/16 15:39	03/11/16 15:52	1
alpha-BHC	**0.012**	**J**	0.050	0.0034	ug/L		03/10/16 15:39	03/11/16 15:52	1
beta-BHC	**1.3**		0.25	0.045	ug/L		03/10/16 15:39	03/11/16 17:35	5
Chlordane (technical)	<0.094		0.50	0.094	ug/L		03/10/16 15:39	03/11/16 15:52	1
delta-BHC	**0.018**	**J**	0.050	0.0074	ug/L		03/10/16 15:39	03/11/16 15:52	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		03/10/16 15:39	03/11/16 15:52	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		03/10/16 15:39	03/11/16 15:52	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		03/10/16 15:39	03/11/16 15:52	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		03/10/16 15:39	03/11/16 15:52	1
Endrin	<0.0053		0.050	0.0053	ug/L		03/10/16 15:39	03/11/16 15:52	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		03/10/16 15:39	03/11/16 15:52	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		03/10/16 15:39	03/11/16 15:52	1
gamma-BHC (Lindane)	<0.0036		0.050	0.0036	ug/L		03/10/16 15:39	03/11/16 15:52	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		03/10/16 15:39	03/11/16 15:52	1
Heptachlor epoxide	**0.0081**	**J p**	0.050	0.0037	ug/L		03/10/16 15:39	03/11/16 15:52	1
Methoxychlor	<0.0097		0.050	0.0097	ug/L		03/10/16 15:39	03/11/16 15:52	1

Client: Environmental International Corporation
Project/Site: 400007-4.5/Bainbridge, GA

TestAmerica Job ID: 680-122659-1

Client Sample ID: MW-20

Date Collected: 03/03/16 16:03
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-22
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	<0.40		5.0	0.40	ug/L		03/10/16 15:39	03/11/16 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*55*		*14 - 130*	*03/10/16 15:39*	*03/11/16 15:52*	*1*
Tetrachloro-m-xylene	*48*		*40 - 130*	*03/10/16 15:39*	*03/11/16 15:52*	*1*

Client Sample ID: MW-21

Date Collected: 03/03/16 15:06
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-23
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		03/10/16 15:39	03/11/16 16:07	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		03/10/16 15:39	03/11/16 16:07	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		03/10/16 15:39	03/11/16 16:07	1
Aldrin	<0.0072		0.050	0.0072	ug/L		03/10/16 15:39	03/11/16 16:07	1
alpha-BHC	<0.0034		0.050	0.0034	ug/L		03/10/16 15:39	03/11/16 16:07	1
beta-BHC	**1.7**		0.25	0.045	ug/L		03/10/16 15:39	03/11/16 17:49	5
Chlordane (technical)	<0.095		0.50	0.095	ug/L		03/10/16 15:39	03/11/16 16:07	1
delta-BHC	**0.010**	**J**	0.050	0.0075	ug/L		03/10/16 15:39	03/11/16 16:07	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		03/10/16 15:39	03/11/16 16:07	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		03/10/16 15:39	03/11/16 16:07	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		03/10/16 15:39	03/11/16 16:07	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		03/10/16 15:39	03/11/16 16:07	1
Endrin	<0.0053		0.050	0.0053	ug/L		03/10/16 15:39	03/11/16 16:07	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		03/10/16 15:39	03/11/16 16:07	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		03/10/16 15:39	03/11/16 16:07	1
gamma-BHC (Lindane)	<0.0036		0.050	0.0036	ug/L		03/10/16 15:39	03/11/16 16:07	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		03/10/16 15:39	03/11/16 16:07	1
Heptachlor epoxide	**0.0062**	**J p**	0.050	0.0037	ug/L		03/10/16 15:39	03/11/16 16:07	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		03/10/16 15:39	03/11/16 16:07	1
Toxaphene	<0.40		5.0	0.40	ug/L		03/10/16 15:39	03/11/16 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*20*		*14 - 130*	*03/10/16 15:39*	*03/11/16 16:07*	*1*
Tetrachloro-m-xylene	*44*		*40 - 130*	*03/10/16 15:39*	*03/11/16 16:07*	*1*

Client Sample ID: MW-22

Date Collected: 03/03/16 16:50
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-24
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0062		0.050	0.0062	ug/L		03/10/16 15:39	03/11/16 16:23	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		03/10/16 15:39	03/11/16 16:23	1
4,4'-DDT	<0.0069		0.050	0.0069	ug/L		03/10/16 15:39	03/11/16 16:23	1
Aldrin	<0.0071		0.050	0.0071	ug/L		03/10/16 15:39	03/11/16 16:23	1
alpha-BHC	**0.61**		0.050	0.0034	ug/L		03/10/16 15:39	03/11/16 16:23	1
beta-BHC	**19**		2.0	0.36	ug/L		03/10/16 15:39	03/11/16 18:03	40
Chlordane (technical)	<0.094		0.50	0.094	ug/L		03/10/16 15:39	03/11/16 16:23	1

Client Sample ID: MW-22

Date Collected: 03/03/16 16:50
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-24
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	**1.9**	**J**	2.0	0.30	ug/L		03/10/16 15:39	03/11/16 18:03	40
Dieldrin	<0.0038		0.050	0.0038	ug/L		03/10/16 15:39	03/11/16 16:23	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		03/10/16 15:39	03/11/16 16:23	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		03/10/16 15:39	03/11/16 16:23	1
Endosulfan sulfate	**0.028**	**J**	0.050	0.0051	ug/L		03/10/16 15:39	03/11/16 16:23	1
Endrin	<0.0053		0.050	0.0053	ug/L		03/10/16 15:39	03/11/16 16:23	1
Endrin aldehyde	<0.0060		0.050	0.0060	ug/L		03/10/16 15:39	03/11/16 16:23	1
Endrin ketone	**0.041**	**J**	0.050	0.0046	ug/L		03/10/16 15:39	03/11/16 16:23	1
gamma-BHC (Lindane)	**0.35**		0.050	0.0036	ug/L		03/10/16 15:39	03/11/16 16:23	1
Heptachlor	<0.0070		0.050	0.0070	ug/L		03/10/16 15:39	03/11/16 16:23	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		03/10/16 15:39	03/11/16 16:23	1
Methoxychlor	<0.0097		0.050	0.0097	ug/L		03/10/16 15:39	03/11/16 16:23	1
Toxaphene	<0.40		5.0	0.40	ug/L		03/10/16 15:39	03/11/16 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*36*		*14 - 130*	*03/10/16 15:39*	*03/11/16 16:23*	*1*
Tetrachloro-m-xylene	*49*		*40 - 130*	*03/10/16 15:39*	*03/11/16 16:23*	*1*

Client Sample ID: MW-23

Date Collected: 03/03/16 09:25
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-25
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		03/10/16 15:39	03/11/16 16:38	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		03/10/16 15:39	03/11/16 16:38	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		03/10/16 15:39	03/11/16 16:38	1
Aldrin	<0.0072		0.050	0.0072	ug/L		03/10/16 15:39	03/11/16 16:38	1
alpha-BHC	**0.017**	**J**	0.050	0.0034	ug/L		03/10/16 15:39	03/11/16 16:38	1
beta-BHC	**5.1**		1.0	0.18	ug/L		03/10/16 15:39	03/11/16 18:46	20
Chlordane (technical)	<0.095		0.50	0.095	ug/L		03/10/16 15:39	03/11/16 16:38	1
delta-BHC	**0.011**	**J p**	0.050	0.0075	ug/L		03/10/16 15:39	03/11/16 16:38	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		03/10/16 15:39	03/11/16 16:38	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		03/10/16 15:39	03/11/16 16:38	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		03/10/16 15:39	03/11/16 16:38	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		03/10/16 15:39	03/11/16 16:38	1
Endrin	<0.0053		0.050	0.0053	ug/L		03/10/16 15:39	03/11/16 16:38	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		03/10/16 15:39	03/11/16 16:38	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		03/10/16 15:39	03/11/16 16:38	1
gamma-BHC (Lindane)	**0.048**	**J**	0.050	0.0036	ug/L		03/10/16 15:39	03/11/16 16:38	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		03/10/16 15:39	03/11/16 16:38	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		03/10/16 15:39	03/11/16 16:38	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		03/10/16 15:39	03/11/16 16:38	1
Toxaphene	<0.40		5.0	0.40	ug/L		03/10/16 15:39	03/11/16 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*25*		*14 - 130*	*03/10/16 15:39*	*03/11/16 16:38*	*1*
Tetrachloro-m-xylene	*57*		*40 - 130*	*03/10/16 15:39*	*03/11/16 16:38*	*1*

Client Sample ID: MW-24

Date Collected: 03/02/16 09:18
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-26
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		03/09/16 16:13	03/10/16 16:45	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		03/09/16 16:13	03/10/16 16:45	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		03/09/16 16:13	03/10/16 16:45	1
Aldrin	<0.0072		0.050	0.0072	ug/L		03/09/16 16:13	03/10/16 16:45	1
alpha-BHC	<0.0034		0.050	0.0034	ug/L		03/09/16 16:13	03/10/16 16:45	1
beta-BHC	<0.0091		0.050	0.0091	ug/L		03/09/16 16:13	03/10/16 16:45	1
Chlordane (technical)	<0.095		0.50	0.095	ug/L		03/09/16 16:13	03/10/16 16:45	1
delta-BHC	<0.0075		0.050	0.0075	ug/L		03/09/16 16:13	03/10/16 16:45	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		03/09/16 16:13	03/10/16 16:45	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		03/09/16 16:13	03/10/16 16:45	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		03/09/16 16:13	03/10/16 16:45	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		03/09/16 16:13	03/10/16 16:45	1
Endrin	<0.0053		0.050	0.0053	ug/L		03/09/16 16:13	03/10/16 16:45	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		03/09/16 16:13	03/10/16 16:45	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		03/09/16 16:13	03/10/16 16:45	1
gamma-BHC (Lindane)	<0.0036		0.050	0.0036	ug/L		03/09/16 16:13	03/10/16 16:45	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		03/09/16 16:13	03/10/16 16:45	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		03/09/16 16:13	03/10/16 16:45	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		03/09/16 16:13	03/10/16 16:45	1
Toxaphene	<0.40		5.0	0.40	ug/L		03/09/16 16:13	03/10/16 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*100*		*14 - 130*	*03/09/16 16:13*	*03/10/16 16:45*	*1*
Tetrachloro-m-xylene	*64*		*40 - 130*	*03/09/16 16:13*	*03/10/16 16:45*	*1*

Client Sample ID: Equipment Blank

Date Collected: 03/03/16 17:15
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-27
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0062		0.049	0.0062	ug/L		03/10/16 15:39	03/11/16 16:54	1
4,4'-DDE	<0.0050		0.049	0.0050	ug/L		03/10/16 15:39	03/11/16 16:54	1
4,4'-DDT	<0.0069		0.049	0.0069	ug/L		03/10/16 15:39	03/11/16 16:54	1
Aldrin	<0.0071		0.049	0.0071	ug/L		03/10/16 15:39	03/11/16 16:54	1
alpha-BHC	<0.0033		0.049	0.0033	ug/L		03/10/16 15:39	03/11/16 16:54	1
beta-BHC	<0.0090		0.049	0.0090	ug/L		03/10/16 15:39	03/11/16 16:54	1
Chlordane (technical)	<0.094		0.49	0.094	ug/L		03/10/16 15:39	03/11/16 16:54	1
delta-BHC	<0.0074		0.049	0.0074	ug/L		03/10/16 15:39	03/11/16 16:54	1
Dieldrin	<0.0037		0.049	0.0037	ug/L		03/10/16 15:39	03/11/16 16:54	1
Endosulfan I	<0.0034		0.049	0.0034	ug/L		03/10/16 15:39	03/11/16 16:54	1
Endosulfan II	<0.0041		0.049	0.0041	ug/L		03/10/16 15:39	03/11/16 16:54	1
Endosulfan sulfate	<0.0050		0.049	0.0050	ug/L		03/10/16 15:39	03/11/16 16:54	1
Endrin	<0.0052		0.049	0.0052	ug/L		03/10/16 15:39	03/11/16 16:54	1
Endrin aldehyde	<0.0060		0.049	0.0060	ug/L		03/10/16 15:39	03/11/16 16:54	1
Endrin ketone	<0.0045		0.049	0.0045	ug/L		03/10/16 15:39	03/11/16 16:54	1
gamma-BHC (Lindane)	<0.0035		0.049	0.0035	ug/L		03/10/16 15:39	03/11/16 16:54	1
Heptachlor	<0.0070		0.049	0.0070	ug/L		03/10/16 15:39	03/11/16 16:54	1
Heptachlor epoxide	<0.0036		0.049	0.0036	ug/L		03/10/16 15:39	03/11/16 16:54	1
Methoxychlor	<0.0097		0.049	0.0097	ug/L		03/10/16 15:39	03/11/16 16:54	1

Client: Environmental International Corporation
Project/Site: 400007-4.5/Bainbridge, GA

TestAmerica Job ID: 680-122659-1

Client Sample ID: Equipment Blank
Date Collected: 03/03/16 17:15
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-27
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	<0.39		4.9	0.39	ug/L		03/10/16 15:39	03/11/16 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*31*		*14 - 130*	*03/10/16 15:39*	*03/11/16 16:54*	*1*
Tetrachloro-m-xylene	*60*		*40 - 130*	*03/10/16 15:39*	*03/11/16 16:54*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-424119/20-A
Matrix: Water
Analysis Batch: 424308

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 424119

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		03/07/16 17:11	03/08/16 19:46	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		03/07/16 17:11	03/08/16 19:46	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		03/07/16 17:11	03/08/16 19:46	1
Aldrin	<0.0072		0.050	0.0072	ug/L		03/07/16 17:11	03/08/16 19:46	1
alpha-BHC	<0.0034		0.050	0.0034	ug/L		03/07/16 17:11	03/08/16 19:46	1
beta-BHC	<0.0091		0.050	0.0091	ug/L		03/07/16 17:11	03/08/16 19:46	1
Chlordane (technical)	<0.095		0.50	0.095	ug/L		03/07/16 17:11	03/08/16 19:46	1
delta-BHC	<0.0075		0.050	0.0075	ug/L		03/07/16 17:11	03/08/16 19:46	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		03/07/16 17:11	03/08/16 19:46	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		03/07/16 17:11	03/08/16 19:46	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		03/07/16 17:11	03/08/16 19:46	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		03/07/16 17:11	03/08/16 19:46	1
Endrin	<0.0053		0.050	0.0053	ug/L		03/07/16 17:11	03/08/16 19:46	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		03/07/16 17:11	03/08/16 19:46	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		03/07/16 17:11	03/08/16 19:46	1
gamma-BHC (Lindane)	<0.0036		0.050	0.0036	ug/L		03/07/16 17:11	03/08/16 19:46	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		03/07/16 17:11	03/08/16 19:46	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		03/07/16 17:11	03/08/16 19:46	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		03/07/16 17:11	03/08/16 19:46	1
Toxaphene	<0.40		5.0	0.40	ug/L		03/07/16 17:11	03/08/16 19:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*14 - 130*	*03/07/16 17:11*	*03/08/16 19:46*	*1*
Tetrachloro-m-xylene	*74*		*40 - 130*	*03/07/16 17:11*	*03/08/16 19:46*	*1*

Lab Sample ID: LCS 680-424119/21-A
Matrix: Water
Analysis Batch: 424308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 424119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.100	0.0815	p	ug/L		81	54 - 135
4,4'-DDE	0.100	0.0913		ug/L		91	47 - 130
4,4'-DDT	0.100	0.0945		ug/L		95	47 - 134
Aldrin	0.100	0.103		ug/L		103	34 - 130
alpha-BHC	0.100	0.0944		ug/L		94	48 - 130
beta-BHC	0.100	0.103		ug/L		103	29 - 174
delta-BHC	0.100	0.0934		ug/L		93	44 - 142
Dieldrin	0.100	0.0963		ug/L		96	54 - 130
Endosulfan I	0.100	0.0979		ug/L		98	40 - 131
Endosulfan II	0.100	0.0967		ug/L		97	44 - 137
Endosulfan sulfate	0.100	0.100		ug/L		100	49 - 139
Endrin	0.100	0.0788		ug/L		79	59 - 143
Endrin aldehyde	0.100	0.0933		ug/L		93	45 - 166
Endrin ketone	0.100	0.109		ug/L		109	56 - 137
gamma-BHC (Lindane)	0.100	0.0906		ug/L		91	52 - 130
Heptachlor	0.100	0.0795		ug/L		80	35 - 130

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCS 680-424119/21-A
Matrix: Water
Analysis Batch: 424308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 424119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor epoxide	0.100	0.101		ug/L		101	52 - 130
Methoxychlor	0.100	0.102		ug/L		102	52 - 136

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*73*		*14 - 130*
Tetrachloro-m-xylene	*72*		*40 - 130*

Lab Sample ID: MB 680-424405/21-A
Matrix: Water
Analysis Batch: 424567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 424405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		03/09/16 16:13	03/10/16 14:58	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		03/09/16 16:13	03/10/16 14:58	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		03/09/16 16:13	03/10/16 14:58	1
Aldrin	<0.0072		0.050	0.0072	ug/L		03/09/16 16:13	03/10/16 14:58	1
alpha-BHC	<0.0034		0.050	0.0034	ug/L		03/09/16 16:13	03/10/16 14:58	1
beta-BHC	<0.0091		0.050	0.0091	ug/L		03/09/16 16:13	03/10/16 14:58	1
Chlordane (technical)	<0.095		0.50	0.095	ug/L		03/09/16 16:13	03/10/16 14:58	1
delta-BHC	<0.0075		0.050	0.0075	ug/L		03/09/16 16:13	03/10/16 14:58	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		03/09/16 16:13	03/10/16 14:58	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		03/09/16 16:13	03/10/16 14:58	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		03/09/16 16:13	03/10/16 14:58	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		03/09/16 16:13	03/10/16 14:58	1
Endrin	<0.0053		0.050	0.0053	ug/L		03/09/16 16:13	03/10/16 14:58	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		03/09/16 16:13	03/10/16 14:58	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		03/09/16 16:13	03/10/16 14:58	1
gamma-BHC (Lindane)	<0.0036		0.050	0.0036	ug/L		03/09/16 16:13	03/10/16 14:58	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		03/09/16 16:13	03/10/16 14:58	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		03/09/16 16:13	03/10/16 14:58	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		03/09/16 16:13	03/10/16 14:58	1
Toxaphene	<0.40		5.0	0.40	ug/L		03/09/16 16:13	03/10/16 14:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*56*		*14 - 130*	*03/09/16 16:13*	*03/10/16 14:58*	*1*
Tetrachloro-m-xylene	*82*		*40 - 130*	*03/09/16 16:13*	*03/10/16 14:58*	*1*

Lab Sample ID: LCS 680-424405/22-A
Matrix: Water
Analysis Batch: 424567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 424405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.100	0.0719		ug/L		72	54 - 135
4,4'-DDE	0.100	0.0827		ug/L		83	47 - 130
4,4'-DDT	0.100	0.0839		ug/L		84	47 - 134
Aldrin	0.100	0.0804		ug/L		80	34 - 130

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCS 680-424405/22-A
Matrix: Water
Analysis Batch: 424567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 424405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC	0.100	0.0854		ug/L		85	48 - 130
beta-BHC	0.100	0.0945		ug/L		94	29 - 174
delta-BHC	0.100	0.0886		ug/L		89	44 - 142
Dieldrin	0.100	0.0861		ug/L		86	54 - 130
Endosulfan I	0.100	0.0856		ug/L		86	40 - 131
Endosulfan II	0.100	0.0854		ug/L		85	44 - 137
Endosulfan sulfate	0.100	0.0832		ug/L		83	49 - 139
Endrin	0.100	0.0844		ug/L		84	59 - 143
Endrin aldehyde	0.100	0.0823		ug/L		82	45 - 166
Endrin ketone	0.100	0.0869		ug/L		87	56 - 137
gamma-BHC (Lindane)	0.100	0.0855		ug/L		86	52 - 130
Heptachlor	0.100	0.0803		ug/L		80	35 - 130
Heptachlor epoxide	0.100	0.0926		ug/L		93	52 - 130
Methoxychlor	0.100	0.0837		ug/L		84	52 - 136

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*48*		*14 - 130*
Tetrachloro-m-xylene	*68*		*40 - 130*

Lab Sample ID: 680-122659-7 MS
Matrix: Water
Analysis Batch: 424567

Client Sample ID: MW-5D
Prep Type: Total/NA
Prep Batch: 424405

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	<0.0063	F1	0.0995	0.0644		ug/L		65	54 - 135
4,4'-DDE	<0.0051		0.0995	0.0674		ug/L		68	47 - 130
4,4'-DDT	<0.0070		0.0995	0.0669		ug/L		67	47 - 134
Aldrin	<0.0072	F1	0.0995	0.0306	J p F1	ug/L		31	34 - 130
alpha-BHC	0.18		0.0995	0.293		ug/L		110	48 - 130
Dieldrin	0.13		0.0995	0.210		ug/L		84	54 - 130
Endosulfan I	<0.0035		0.0995	0.0657	p	ug/L		66	40 - 131
Endosulfan II	<0.0042		0.0995	0.0721		ug/L		72	44 - 137
Endosulfan sulfate	<0.0051		0.0995	0.0814		ug/L		82	49 - 139
Endrin	<0.0053		0.0995	0.0752		ug/L		76	59 - 143
Endrin aldehyde	<0.0061		0.0995	0.0791		ug/L		79	45 - 166
Endrin ketone	0.015	J	0.0995	0.0759		ug/L		61	56 - 137
gamma-BHC (Lindane)	0.16		0.0995	0.256		ug/L		92	52 - 130
Heptachlor	<0.0071		0.0995	0.0476	J	ug/L		48	35 - 130
Heptachlor epoxide	<0.0037		0.0995	0.0771		ug/L		78	52 - 130
Methoxychlor	<0.0098		0.0995	0.0686		ug/L		69	52 - 136

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*40*		*14 - 130*
Tetrachloro-m-xylene	*54*		*40 - 130*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: 680-122659-7 MS
Matrix: Water
Analysis Batch: 424738

Client Sample ID: MW-5D
Prep Type: Total/NA
Prep Batch: 424405

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
beta-BHC	3.8		0.0995	4.65	4	ug/L		817	29 - 174
delta-BHC	1.2		0.0995	1.42	4	ug/L		261	44 - 142

Lab Sample ID: 680-122659-7 MSD
Matrix: Water
Analysis Batch: 424567

Client Sample ID: MW-5D
Prep Type: Total/NA
Prep Batch: 424405

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	<0.0063	F1	0.0916	0.0594		ug/L		65	54 - 135	8	50
4,4'-DDE	<0.0051		0.0916	0.0708		ug/L		77	47 - 130	5	50
4,4'-DDT	<0.0070		0.0916	0.0650		ug/L		71	47 - 134	3	50
Aldrin	<0.0072	F1	0.0916	0.0483	p	ug/L		53	34 - 130	45	50
alpha-BHC	0.18		0.0916	0.272		ug/L		98	48 - 130	7	50
Dieldrin	0.13		0.0916	0.198		ug/L		79	54 - 130	6	50
Endosulfan I	<0.0035		0.0916	0.0541	p	ug/L		59	40 - 131	19	50
Endosulfan II	<0.0042		0.0916	0.0654		ug/L		71	44 - 137	10	50
Endosulfan sulfate	<0.0051		0.0916	0.0773		ug/L		84	49 - 139	5	50
Endrin	<0.0053		0.0916	0.0698		ug/L		76	59 - 143	7	50
Endrin aldehyde	<0.0061		0.0916	0.0726		ug/L		79	45 - 166	9	50
Endrin ketone	0.015	J	0.0916	0.0763		ug/L		67	56 - 137	0	50
gamma-BHC (Lindane)	0.16		0.0916	0.235		ug/L		77	52 - 130	8	50
Heptachlor	<0.0071		0.0916	0.0611		ug/L		67	35 - 130	25	50
Heptachlor epoxide	<0.0037		0.0916	0.0823		ug/L		90	52 - 130	7	50
Methoxychlor	<0.0098		0.0916	0.0702		ug/L		77	52 - 136	2	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*44*		*14 - 130*
Tetrachloro-m-xylene	*58*		*40 - 130*

Lab Sample ID: 680-122659-7 MSD
Matrix: Water
Analysis Batch: 424738

Client Sample ID: MW-5D
Prep Type: Total/NA
Prep Batch: 424405

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
beta-BHC	3.8		0.0916	4.33	4	ug/L		544	29 - 174	7	50
delta-BHC	1.2		0.0916	1.33	4	ug/L		182	44 - 142	7	50

Lab Sample ID: MB 680-424550/21-A
Matrix: Water
Analysis Batch: 424749

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 424550

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0063		0.050	0.0063	ug/L		03/10/16 15:39	03/11/16 13:48	1
4,4'-DDE	<0.0051		0.050	0.0051	ug/L		03/10/16 15:39	03/11/16 13:48	1
4,4'-DDT	<0.0070		0.050	0.0070	ug/L		03/10/16 15:39	03/11/16 13:48	1
Aldrin	<0.0072		0.050	0.0072	ug/L		03/10/16 15:39	03/11/16 13:48	1
alpha-BHC	<0.0034		0.050	0.0034	ug/L		03/10/16 15:39	03/11/16 13:48	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: MB 680-424550/21-A
Matrix: Water
Analysis Batch: 424749

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 424550

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	<0.0091		0.050	0.0091	ug/L		03/10/16 15:39	03/11/16 13:48	1
Chlordane (technical)	<0.095		0.50	0.095	ug/L		03/10/16 15:39	03/11/16 13:48	1
delta-BHC	<0.0075		0.050	0.0075	ug/L		03/10/16 15:39	03/11/16 13:48	1
Dieldrin	<0.0038		0.050	0.0038	ug/L		03/10/16 15:39	03/11/16 13:48	1
Endosulfan I	<0.0035		0.050	0.0035	ug/L		03/10/16 15:39	03/11/16 13:48	1
Endosulfan II	<0.0042		0.050	0.0042	ug/L		03/10/16 15:39	03/11/16 13:48	1
Endosulfan sulfate	<0.0051		0.050	0.0051	ug/L		03/10/16 15:39	03/11/16 13:48	1
Endrin	<0.0053		0.050	0.0053	ug/L		03/10/16 15:39	03/11/16 13:48	1
Endrin aldehyde	<0.0061		0.050	0.0061	ug/L		03/10/16 15:39	03/11/16 13:48	1
Endrin ketone	<0.0046		0.050	0.0046	ug/L		03/10/16 15:39	03/11/16 13:48	1
gamma-BHC (Lindane)	<0.0036		0.050	0.0036	ug/L		03/10/16 15:39	03/11/16 13:48	1
Heptachlor	<0.0071		0.050	0.0071	ug/L		03/10/16 15:39	03/11/16 13:48	1
Heptachlor epoxide	<0.0037		0.050	0.0037	ug/L		03/10/16 15:39	03/11/16 13:48	1
Methoxychlor	<0.0098		0.050	0.0098	ug/L		03/10/16 15:39	03/11/16 13:48	1
Toxaphene	<0.40		5.0	0.40	ug/L		03/10/16 15:39	03/11/16 13:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*14 - 130*	*03/10/16 15:39*	*03/11/16 13:48*	*1*
Tetrachloro-m-xylene	*78*		*40 - 130*	*03/10/16 15:39*	*03/11/16 13:48*	*1*

Lab Sample ID: LCS 680-424550/22-A
Matrix: Water
Analysis Batch: 424749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 424550

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.100	0.0760		ug/L		76	54 - 135
4,4'-DDE	0.100	0.0793		ug/L		79	47 - 130
4,4'-DDT	0.100	0.0873		ug/L		87	47 - 134
Aldrin	0.100	0.0751		ug/L		75	34 - 130
alpha-BHC	0.100	0.0801		ug/L		80	48 - 130
beta-BHC	0.100	0.0838		ug/L		84	29 - 174
delta-BHC	0.100	0.0793		ug/L		79	44 - 142
Dieldrin	0.100	0.0838		ug/L		84	54 - 130
Endosulfan I	0.100	0.0787		ug/L		79	40 - 131
Endosulfan II	0.100	0.0866		ug/L		87	44 - 137
Endosulfan sulfate	0.100	0.0862		ug/L		86	49 - 139
Endrin	0.100	0.0954		ug/L		95	59 - 143
Endrin aldehyde	0.100	0.0944		ug/L		94	45 - 166
Endrin ketone	0.100	0.0842		ug/L		84	56 - 137
gamma-BHC (Lindane)	0.100	0.0762		ug/L		76	52 - 130
Heptachlor	0.100	0.0754		ug/L		75	35 - 130
Heptachlor epoxide	0.100	0.0826		ug/L		83	52 - 130
Methoxychlor	0.100	0.0946		ug/L		95	52 - 136

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*53*		*14 - 130*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCS 680-424550/22-A
Matrix: Water
Analysis Batch: 424749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 424550

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	*63*		*40 - 130*

Lab Sample ID: 680-122659-24 MS
Matrix: Water
Analysis Batch: 424749

Client Sample ID: MW-22
Prep Type: Total/NA
Prep Batch: 424550

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	<0.0062		0.0992	0.0827		ug/L		83	54 - 135
4,4'-DDE	<0.0051		0.0992	0.0744	p	ug/L		75	47 - 130
4,4'-DDT	<0.0069		0.0992	0.0707	p	ug/L		71	47 - 134
Aldrin	<0.0071		0.0992	0.0472	J p	ug/L		48	34 - 130
alpha-BHC	0.61		0.0992	0.750	4	ug/L		143	48 - 130
Dieldrin	<0.0038		0.0992	0.112		ug/L		113	54 - 130
Endosulfan I	<0.0035		0.0992	<0.0035	F1	ug/L		0	40 - 131
Endosulfan II	<0.0042		0.0992	0.165	F1	ug/L		167	44 - 137
Endosulfan sulfate	0.028	J	0.0992	0.101		ug/L		73	49 - 139
Endrin	<0.0053		0.0992	0.124		ug/L		125	59 - 143
Endrin aldehyde	<0.0060		0.0992	0.0836	p	ug/L		84	45 - 166
Endrin ketone	0.041	J	0.0992	0.102		ug/L		61	56 - 137
gamma-BHC (Lindane)	0.35		0.0992	0.464		ug/L		113	52 - 130
Heptachlor	<0.0070		0.0992	0.0497	J p	ug/L		50	35 - 130
Heptachlor epoxide	<0.0037		0.0992	0.0806	p	ug/L		81	52 - 130
Methoxychlor	<0.0097		0.0992	0.107		ug/L		108	52 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	*56*		*14 - 130*
Tetrachloro-m-xylene	*53*		*40 - 130*

Lab Sample ID: 680-122659-24 MS
Matrix: Water
Analysis Batch: 424738

Client Sample ID: MW-22
Prep Type: Total/NA
Prep Batch: 424550

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
beta-BHC	19		0.0992	21.7	4	ug/L		2353	29 - 174
delta-BHC	1.9	J	0.0992	2.21	4	ug/L		284	44 - 142

Lab Sample ID: 680-122659-24 MSD
Matrix: Water
Analysis Batch: 424749

Client Sample ID: MW-22
Prep Type: Total/NA
Prep Batch: 424550

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	<0.0062		0.0920	0.0948		ug/L		103	54 - 135	14	50
4,4'-DDE	<0.0051		0.0920	0.0908		ug/L		99	47 - 130	20	50
4,4'-DDT	<0.0069		0.0920	0.0830	p	ug/L		90	47 - 134	16	50
Aldrin	<0.0071		0.0920	0.0603	p	ug/L		66	34 - 130	24	50
alpha-BHC	0.61		0.0920	0.734	4	ug/L		136	48 - 130	2	50
Dieldrin	<0.0038		0.0920	0.121	F1	ug/L		132	54 - 130	8	50

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: 680-122659-24 MSD
Matrix: Water
Analysis Batch: 424749

Client Sample ID: MW-22
Prep Type: Total/NA
Prep Batch: 424550

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endosulfan I	<0.0035		0.0920	0.628	F1	ug/L		683	40 - 131	NC	50
Endosulfan II	<0.0042		0.0920	0.176	F1	ug/L		192	44 - 137	6	50
Endosulfan sulfate	0.028	J	0.0920	0.108		ug/L		87	49 - 139	7	50
Endrin	<0.0053		0.0920	0.154	F1	ug/L		168	59 - 143	22	50
Endrin aldehyde	<0.0060		0.0920	0.0847	p	ug/L		92	45 - 166	1	50
Endrin ketone	0.041	J	0.0920	0.116		ug/L		82	56 - 137	14	50
gamma-BHC (Lindane)	0.35		0.0920	0.457		ug/L		115	52 - 130	1	50
Heptachlor	<0.0070		0.0920	0.0888	F2	ug/L		97	35 - 130	57	50
Heptachlor epoxide	<0.0037		0.0920	0.0848	p	ug/L		92	52 - 130	5	50
Methoxychlor	<0.0097		0.0920	0.126	F1	ug/L		137	52 - 136	16	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*48*		*14 - 130*
Tetrachloro-m-xylene	*51*		*40 - 130*

Lab Sample ID: 680-122659-24 MSD
Matrix: Water
Analysis Batch: 424738

Client Sample ID: MW-22
Prep Type: Total/NA
Prep Batch: 424550

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
beta-BHC	19		0.0920	21.0	4	ug/L		1751	29 - 174	3	50
delta-BHC	1.9	J	0.0920	2.16	4	ug/L		251	44 - 142	2	50

GC Semi VOA

Prep Batch: 424119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122659-1	MW-1	Total/NA	Water	3520C	
680-122659-2	MW-1A	Total/NA	Water	3520C	
680-122659-3	MW-2	Total/NA	Water	3520C	
680-122659-4	MW-3	Total/NA	Water	3520C	
680-122659-5	MW-4U	Total/NA	Water	3520C	
680-122659-13	MW-11	Total/NA	Water	3520C	
680-122659-17	MW-15	Total/NA	Water	3520C	
680-122659-20	MW-18	Total/NA	Water	3520C	
680-122659-21	MW-19	Total/NA	Water	3520C	
LCS 680-424119/21-A	Lab Control Sample	Total/NA	Water	3520C	
MB 680-424119/20-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 424308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122659-1	MW-1	Total/NA	Water	8081B/8082A	424678
680-122659-2	MW-1A	Total/NA	Water	8081B/8082A	424678
680-122659-3	MW-2	Total/NA	Water	8081B/8082A	424678
680-122659-4	MW-3	Total/NA	Water	8081B/8082A	424678
680-122659-5	MW-4U	Total/NA	Water	8081B/8082A	424678
LCS 680-424119/21-A	Lab Control Sample	Total/NA	Water	8081B/8082A	424119
MB 680-424119/20-A	Method Blank	Total/NA	Water	8081B/8082A	424119

Prep Batch: 424405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122659-6	MW-5A	Total/NA	Water	3520C	
680-122659-7	MW-5D	Total/NA	Water	3520C	
680-122659-7 MS	MW-5D	Total/NA	Water	3520C	
680-122659-7 MSD	MW-5D	Total/NA	Water	3520C	
680-122659-8	MW-6	Total/NA	Water	3520C	
680-122659-11	MW-10	Total/NA	Water	3520C	
680-122659-14	MW-12	Total/NA	Water	3520C	
680-122659-15	MW-13	Total/NA	Water	3520C	
680-122659-16	MW-14	Total/NA	Water	3520C	
680-122659-19	MW-17	Total/NA	Water	3520C	
680-122659-26	MW-24	Total/NA	Water	3520C	
LCS 680-424405/22-A	Lab Control Sample	Total/NA	Water	3520C	
MB 680-424405/21-A	Method Blank	Total/NA	Water	3520C	

Prep Batch: 424550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122659-9	MW-7	Total/NA	Water	3520C	
680-122659-10	MW-8	Total/NA	Water	3520C	
680-122659-12	MW-10 Duplicate	Total/NA	Water	3520C	
680-122659-18	MW-16	Total/NA	Water	3520C	
680-122659-22	MW-20	Total/NA	Water	3520C	
680-122659-23	MW-21	Total/NA	Water	3520C	
680-122659-24	MW-22	Total/NA	Water	3520C	
680-122659-24 MS	MW-22	Total/NA	Water	3520C	
680-122659-24 MSD	MW-22	Total/NA	Water	3520C	
680-122659-25	MW-23	Total/NA	Water	3520C	
680-122659-27	Equipment Blank	Total/NA	Water	3520C	

GC Semi VOA (Continued)

Prep Batch: 424550 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-424550/22-A	Lab Control Sample	Total/NA	Water	3520C	
MB 680-424550/21-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 424567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122659-7	MW-5D	Total/NA	Water	8081B/8082A	424759
680-122659-7 MS	MW-5D	Total/NA	Water	8081B/8082A	424759
680-122659-7 MSD	MW-5D	Total/NA	Water	8081B/8082A	424759
LCS 680-424405/22-A	Lab Control Sample	Total/NA	Water	8081B/8082A	424405
MB 680-424405/21-A	Method Blank	Total/NA	Water	8081B/8082A	424405

Analysis Batch: 424571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122659-6	MW-5A	Total/NA	Water	8081B/8082A	424759
680-122659-8	MW-6	Total/NA	Water	8081B/8082A	424759
680-122659-11	MW-10	Total/NA	Water	8081B/8082A	424759
680-122659-13	MW-11	Total/NA	Water	8081B/8082A	424678
680-122659-14	MW-12	Total/NA	Water	8081B/8082A	424759
680-122659-15	MW-13	Total/NA	Water	8081B/8082A	424759
680-122659-16	MW-14	Total/NA	Water	8081B/8082A	424759
680-122659-17	MW-15	Total/NA	Water	8081B/8082A	424678
680-122659-19	MW-17	Total/NA	Water	8081B/8082A	424759
680-122659-20	MW-18	Total/NA	Water	8081B/8082A	424678
680-122659-21	MW-19	Total/NA	Water	8081B/8082A	424678
680-122659-26	MW-24	Total/NA	Water	8081B/8082A	424759

Cleanup Batch: 424678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122659-1	MW-1	Total/NA	Water	3660B	424119
680-122659-2	MW-1A	Total/NA	Water	3660B	424119
680-122659-3	MW-2	Total/NA	Water	3660B	424119
680-122659-4	MW-3	Total/NA	Water	3660B	424119
680-122659-5	MW-4U	Total/NA	Water	3660B	424119
680-122659-13	MW-11	Total/NA	Water	3660B	424119
680-122659-17	MW-15	Total/NA	Water	3660B	424119
680-122659-20	MW-18	Total/NA	Water	3660B	424119
680-122659-21	MW-19	Total/NA	Water	3660B	424119

Analysis Batch: 424738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122659-6	MW-5A	Total/NA	Water	8081B/8082A	424759
680-122659-7	MW-5D	Total/NA	Water	8081B/8082A	424759
680-122659-7 MS	MW-5D	Total/NA	Water	8081B/8082A	424759
680-122659-7 MSD	MW-5D	Total/NA	Water	8081B/8082A	424759
680-122659-8	MW-6	Total/NA	Water	8081B/8082A	424759
680-122659-10	MW-8	Total/NA	Water	8081B/8082A	424941
680-122659-11	MW-10	Total/NA	Water	8081B/8082A	424759
680-122659-12	MW-10 Duplicate	Total/NA	Water	8081B/8082A	424941
680-122659-15	MW-13	Total/NA	Water	8081B/8082A	424759
680-122659-22	MW-20	Total/NA	Water	8081B/8082A	424941
680-122659-23	MW-21	Total/NA	Water	8081B/8082A	424941

GC Semi VOA (Continued)

Analysis Batch: 424738 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122659-24	MW-22	Total/NA	Water	8081B/8082A	424941
680-122659-24 MS	MW-22	Total/NA	Water	8081B/8082A	424941
680-122659-24 MSD	MW-22	Total/NA	Water	8081B/8082A	424941
680-122659-25	MW-23	Total/NA	Water	8081B/8082A	424941

Analysis Batch: 424749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122659-9	MW-7	Total/NA	Water	8081B/8082A	424941
680-122659-10	MW-8	Total/NA	Water	8081B/8082A	424941
680-122659-12	MW-10 Duplicate	Total/NA	Water	8081B/8082A	424941
680-122659-18	MW-16	Total/NA	Water	8081B/8082A	424941
680-122659-22	MW-20	Total/NA	Water	8081B/8082A	424941
680-122659-23	MW-21	Total/NA	Water	8081B/8082A	424941
680-122659-24	MW-22	Total/NA	Water	8081B/8082A	424941
680-122659-24 MS	MW-22	Total/NA	Water	8081B/8082A	424941
680-122659-24 MSD	MW-22	Total/NA	Water	8081B/8082A	424941
680-122659-25	MW-23	Total/NA	Water	8081B/8082A	424941
680-122659-27	Equipment Blank	Total/NA	Water	8081B/8082A	424941
LCS 680-424550/22-A	Lab Control Sample	Total/NA	Water	8081B/8082A	424550
MB 680-424550/21-A	Method Blank	Total/NA	Water	8081B/8082A	424550

Cleanup Batch: 424759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122659-6	MW-5A	Total/NA	Water	3660B	424405
680-122659-7	MW-5D	Total/NA	Water	3660B	424405
680-122659-7 MS	MW-5D	Total/NA	Water	3660B	424405
680-122659-7 MSD	MW-5D	Total/NA	Water	3660B	424405
680-122659-8	MW-6	Total/NA	Water	3660B	424405
680-122659-11	MW-10	Total/NA	Water	3660B	424405
680-122659-14	MW-12	Total/NA	Water	3660B	424405
680-122659-15	MW-13	Total/NA	Water	3660B	424405
680-122659-16	MW-14	Total/NA	Water	3660B	424405
680-122659-19	MW-17	Total/NA	Water	3660B	424405
680-122659-26	MW-24	Total/NA	Water	3660B	424405

Cleanup Batch: 424941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-122659-9	MW-7	Total/NA	Water	3660B	424550
680-122659-10	MW-8	Total/NA	Water	3660B	424550
680-122659-12	MW-10 Duplicate	Total/NA	Water	3660B	424550
680-122659-18	MW-16	Total/NA	Water	3660B	424550
680-122659-22	MW-20	Total/NA	Water	3660B	424550
680-122659-23	MW-21	Total/NA	Water	3660B	424550
680-122659-24	MW-22	Total/NA	Water	3660B	424550
680-122659-24 MS	MW-22	Total/NA	Water	3660B	424550
680-122659-24 MSD	MW-22	Total/NA	Water	3660B	424550
680-122659-25	MW-23	Total/NA	Water	3660B	424550
680-122659-27	Equipment Blank	Total/NA	Water	3660B	424550

Lab Chronicle

Client: Environmental International Corporation
Project/Site: 400007-4.5/Bainbridge, GA

TestAmerica Job ID: 680-122659-1

Client Sample ID: MW-1
Date Collected: 03/01/16 16:58
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			503.8 mL	5 mL	424119	03/07/16 17:11	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	503.8 mL	5 mL	424308	03/09/16 02:03	GEM	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Cleanup	3660B			10 mL	10 mL	424678	03/10/16 16:28	JCK	TAL SAV

Client Sample ID: MW-1A
Date Collected: 03/01/16 17:48
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			500.5 mL	5 mL	424119	03/07/16 17:11	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	500.5 mL	5 mL	424308	03/09/16 02:18	GEM	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Cleanup	3660B			10 mL	10 mL	424678	03/10/16 16:28	JCK	TAL SAV

Client Sample ID: MW-2
Date Collected: 02/29/16 16:55
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			506.7 mL	5 mL	424119	03/07/16 17:11	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	506.7 mL	5 mL	424308	03/09/16 02:32	GEM	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Cleanup	3660B			10 mL	10 mL	424678	03/10/16 16:28	JCK	TAL SAV

Client Sample ID: MW-3
Date Collected: 03/01/16 14:48
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			503.8 mL	5 mL	424119	03/07/16 17:11	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	503.8 mL	5 mL	424308	03/09/16 02:47	GEM	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Cleanup	3660B			10 mL	10 mL	424678	03/10/16 16:28	JCK	TAL SAV

Client Sample ID: MW-4U
Date Collected: 03/01/16 15:45
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			510.4 mL	5 mL	424119	03/07/16 17:11	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	510.4 mL	5 mL	424308	03/09/16 03:01	GEM	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Cleanup	3660B			10 mL	10 mL	424678	03/10/16 16:28	JCK	TAL SAV

Lab Chronicle

Client: Environmental International Corporation
Project/Site: 400007-4.5/Bainbridge, GA

TestAmerica Job ID: 680-122659-1

Client Sample ID: MW-5A
Date Collected: 03/02/16 16:20
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			501.6 mL	5 mL	424405	03/09/16 16:13	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	424759	03/11/16 10:33	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		10	501.6 mL	5 mL	424738	03/11/16 14:01	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3520C			501.6 mL	5 mL	424405	03/09/16 16:13	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	501.6 mL	5 mL	424571	03/10/16 15:03	JCK	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Cleanup	3660B			5 mL	5 mL	424759	03/11/16 10:33	JCK	TAL SAV

Client Sample ID: MW-5D
Date Collected: 03/02/16 17:20
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			501.0 mL	5 mL	424405	03/09/16 16:13	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	501.0 mL	5 mL	424567	03/10/16 19:01	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Cleanup	3660B			5 mL	5 mL	424759	03/11/16 10:33	JCK	TAL SAV
Total/NA	Prep	3520C			501.0 mL	5 mL	424405	03/09/16 16:13	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	424759	03/11/16 10:33	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		10	501.0 mL	5 mL	424738	03/11/16 14:15	JCK	TAL SAV
	Instrument ID: CSGAA									

Client Sample ID: MW-6
Date Collected: 03/02/16 13:03
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			507.2 mL	5 mL	424405	03/09/16 16:13	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	424759	03/11/16 10:33	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		10	507.2 mL	5 mL	424738	03/11/16 14:58	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3520C			507.2 mL	5 mL	424405	03/09/16 16:13	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	507.2 mL	5 mL	424571	03/10/16 15:18	JCK	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Cleanup	3660B			5 mL	5 mL	424759	03/11/16 10:33	JCK	TAL SAV

Client Sample ID: MW-7
Date Collected: 03/03/16 11:13
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			502.5 mL	5 mL	424550	03/10/16 15:39	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	424941	03/11/16 09:46	JCK	TAL SAV

Lab Chronicle

Client: Environmental International Corporation
Project/Site: 400007-4.5/Bainbridge, GA

TestAmerica Job ID: 680-122659-1

Client Sample ID: MW-7

Date Collected: 03/03/16 11:13
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8081B/8082A		1	502.5 mL	5 mL	424749	03/11/16 14:50	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: MW-8

Date Collected: 03/03/16 18:05
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			504.9 mL	5 mL	424550	03/10/16 15:39	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	424941	03/11/16 09:46	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		4	504.9 mL	5 mL	424738	03/11/16 17:06	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3520C			504.9 mL	5 mL	424550	03/10/16 15:39	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	424941	03/11/16 09:46	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	504.9 mL	5 mL	424749	03/11/16 15:06	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: MW-10

Date Collected: 03/02/16 12:00
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			511.7 mL	5 mL	424405	03/09/16 16:13	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	424759	03/11/16 10:33	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		20	511.7 mL	5 mL	424738	03/11/16 15:13	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3520C			511.7 mL	5 mL	424405	03/09/16 16:13	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	511.7 mL	5 mL	424571	03/10/16 15:32	JCK	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Cleanup	3660B			5 mL	5 mL	424759	03/11/16 10:33	JCK	TAL SAV

Client Sample ID: MW-10 Duplicate

Date Collected: 03/03/16 12:00
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			501.2 mL	5 mL	424550	03/10/16 15:39	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	424941	03/11/16 09:46	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		20	501.2 mL	5 mL	424738	03/11/16 17:20	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3520C			501.2 mL	5 mL	424550	03/10/16 15:39	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	424941	03/11/16 09:46	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	501.2 mL	5 mL	424749	03/11/16 15:21	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: MW-11

Lab Sample ID: 680-122659-13

Date Collected: 02/29/16 18:15

Matrix: Water

Date Received: 03/05/16 11:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			510.3 mL	5 mL	424119	03/07/16 17:11	RBS	TAL SAV
Total/NA	Cleanup	3660B			10 mL	10 mL	424678	03/10/16 16:28	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	510.3 mL	5 mL	424571	03/10/16 16:59	JCK	TAL SAV
	Instrument ID: CSGJ									

Client Sample ID: MW-12

Lab Sample ID: 680-122659-14

Date Collected: 03/02/16 15:28

Matrix: Water

Date Received: 03/05/16 11:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			504.7 mL	5 mL	424405	03/09/16 16:13	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	504.7 mL	5 mL	424571	03/10/16 15:47	JCK	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Cleanup	3660B			5 mL	5 mL	424759	03/11/16 10:33	JCK	TAL SAV

Client Sample ID: MW-13

Lab Sample ID: 680-122659-15

Date Collected: 03/02/16 14:48

Matrix: Water

Date Received: 03/05/16 11:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			501.9 mL	5 mL	424405	03/09/16 16:13	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	424759	03/11/16 10:33	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		10	501.9 mL	5 mL	424738	03/11/16 15:27	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3520C			501.9 mL	5 mL	424405	03/09/16 16:13	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	501.9 mL	5 mL	424571	03/10/16 16:01	JCK	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Cleanup	3660B			5 mL	5 mL	424759	03/11/16 10:33	JCK	TAL SAV

Client Sample ID: MW-14

Lab Sample ID: 680-122659-16

Date Collected: 03/02/16 11:58

Matrix: Water

Date Received: 03/05/16 11:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			501.0 mL	5 mL	424405	03/09/16 16:13	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	501.0 mL	5 mL	424571	03/10/16 16:16	JCK	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Cleanup	3660B			5 mL	5 mL	424759	03/11/16 10:33	JCK	TAL SAV

Client Sample ID: MW-15

Date Collected: 03/01/16 11:45
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			511.7 mL	5 mL	424119	03/07/16 17:11	RBS	TAL SAV
Total/NA	Cleanup	3660B			10 mL	10 mL	424678	03/10/16 16:28	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	511.7 mL	5 mL	424571	03/10/16 17:14	JCK	TAL SAV
	Instrument ID: CSGJ									

Client Sample ID: MW-16

Date Collected: 03/03/16 10:34
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			502.2 mL	5 mL	424550	03/10/16 15:39	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	424941	03/11/16 09:46	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	502.2 mL	5 mL	424749	03/11/16 15:37	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: MW-17

Date Collected: 03/02/16 10:10
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			503.5 mL	5 mL	424405	03/09/16 16:13	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	503.5 mL	5 mL	424571	03/10/16 16:30	JCK	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Cleanup	3660B			5 mL	5 mL	424759	03/11/16 10:33	JCK	TAL SAV

Client Sample ID: MW-18

Date Collected: 03/01/16 10:40
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			500.1 mL	5 mL	424119	03/07/16 17:11	RBS	TAL SAV
Total/NA	Cleanup	3660B			10 mL	10 mL	424678	03/10/16 16:28	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	500.1 mL	5 mL	424571	03/10/16 17:28	JCK	TAL SAV
	Instrument ID: CSGJ									

Client Sample ID: MW-19

Date Collected: 03/01/16 09:41
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			502.2 mL	5 mL	424119	03/07/16 17:11	RBS	TAL SAV
Total/NA	Cleanup	3660B			10 mL	10 mL	424678	03/10/16 16:28	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	502.2 mL	5 mL	424571	03/10/16 17:43	JCK	TAL SAV
	Instrument ID: CSGJ									

Lab Chronicle

Client: Environmental International Corporation
Project/Site: 400007-4.5/Bainbridge, GA

TestAmerica Job ID: 680-122659-1

Client Sample ID: MW-20

Date Collected: 03/03/16 16:03
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			503.5 mL	5 mL	424550	03/10/16 15:39	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	424941	03/11/16 09:46	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		5	503.5 mL	5 mL	424738	03/11/16 17:35	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3520C			503.5 mL	5 mL	424550	03/10/16 15:39	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	424941	03/11/16 09:46	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	503.5 mL	5 mL	424749	03/11/16 15:52	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: MW-21

Date Collected: 03/03/16 15:06
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-23

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			500.6 mL	5 mL	424550	03/10/16 15:39	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	424941	03/11/16 09:46	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		5	500.6 mL	5 mL	424738	03/11/16 17:49	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3520C			500.6 mL	5 mL	424550	03/10/16 15:39	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	424941	03/11/16 09:46	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	500.6 mL	5 mL	424749	03/11/16 16:07	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: MW-22

Date Collected: 03/03/16 16:50
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-24

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			504.6 mL	5 mL	424550	03/10/16 15:39	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	424941	03/11/16 09:46	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		40	504.6 mL	5 mL	424738	03/11/16 18:03	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3520C			504.6 mL	5 mL	424550	03/10/16 15:39	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	424941	03/11/16 09:46	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	504.6 mL	5 mL	424749	03/11/16 16:23	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: MW-23

Date Collected: 03/03/16 09:25
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			501.8 mL	5 mL	424550	03/10/16 15:39	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	424941	03/11/16 09:46	JCK	TAL SAV

Lab Chronicle

Client: Environmental International Corporation
Project/Site: 400007-4.5/Bainbridge, GA

TestAmerica Job ID: 680-122659-1

Client Sample ID: MW-23

Date Collected: 03/03/16 09:25
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8081B/8082A		20	501.8 mL	5 mL	424738	03/11/16 18:46	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3520C			501.8 mL	5 mL	424550	03/10/16 15:39	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	424941	03/11/16 09:46	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	501.8 mL	5 mL	424749	03/11/16 16:38	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: MW-24

Date Collected: 03/02/16 09:18
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			500.5 mL	5 mL	424405	03/09/16 16:13	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	500.5 mL	5 mL	424571	03/10/16 16:45	JCK	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Cleanup	3660B			5 mL	5 mL	424759	03/11/16 10:33	JCK	TAL SAV

Client Sample ID: Equipment Blank

Date Collected: 03/03/16 17:15
Date Received: 03/05/16 11:43

Lab Sample ID: 680-122659-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			507.5 mL	5 mL	424550	03/10/16 15:39	RBS	TAL SAV
Total/NA	Cleanup	3660B			5 mL	5 mL	424941	03/11/16 09:46	JCK	TAL SAV
Total/NA	Analysis	8081B/8082A		1	507.5 mL	5 mL	424749	03/11/16 16:54	JCK	TAL SAV
	Instrument ID: CSGZ									

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 95325

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
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Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: Bainbridge GA	PROJECT NO.: 400007-4.5	PROJECT LOCATION (STATE): GA	PAGE 1 OF 3
TAL (LAB) PROJECT MANAGER: Sheila Hoffman	P.O. NUMBER:	CONTRACT NO:	STANDARD REPORT DELIVERY: ● DATE DUE 3/18/16
CLIENT (SITE) PM: Alan Sanders	CLIENT PHONE: 770-772-7100	CLIENT FAX:	EXPEDITED REPORT DELIVERY (SURCHARGE): ○ DATE DUE
CLIENT NAME: EIC	CLIENT E-MAIL: asanders@eicusa.com		
CLIENT ADDRESS: 161 Kimball Bridge Rd, Alpharetta GA 30009			
COMPANY CONTRACTING THIS WORK (if applicable):			NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 3

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: 8081B_8082A 3560B; NA

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3-1-16	16:58	MW-1	G	X				1	
3-1-16	17:48	MW-1A	G	X				1	
2-29-16	16:55	MW-2	G	X				1	
3-1-16	14:48	MW-3	G	X				1	
3-1-16	15:45	MW-4U	G	X				1	
3-2-16	16:20	MW-5A	G	X				1	
3-2-16	17:20	MW-5D	G	X				1	
3-2-16	17:20	MW-5D Matrix Spike	G	X				1	
3-2-16	13:03	MW-6	G	X				1	
3-3-16	11:13	MW-7	G	X				1	
3-2-16	18:05	MW-8	G	X				1	
3-3-16	12:00	MW-10	G	X				1	

680-122659 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3/4/16	12:53	[signature]	3/4/16	13:00			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
[signature]	3/4/16	12:53						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	3/5/16	11:43	YES ○ NO ○		680-122659	0.0/0.4 0.9/1.3 1.0/1.4

TAL8240-680 (1008)

681-Atlanta

Serial Number 95326

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

681-Atlanta

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Bainbridge GA	400007-45	GA
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO
Sheila Hoffman		
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Alan Sanders	770-772-7100	
CLIENT NAME	CLIENT E-MAIL	
EIC	asanders@eicusa.com	
CLIENT ADDRESS		
151 Kimball Bridge Rd. Alpharetta GA 30009		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 3

STANDARD REPORT DELIVERY ● DATE DUE 3/18/16

EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 3

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX TYPE: AQUEOUS (WATER)	MATRIX TYPE: SOLID OR SEMISOLID	MATRIX TYPE: AIR	MATRIX TYPE: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 8021B-8082A 8260B	REQUIRED ANALYSIS: NA	REMARKS
~~3-3-16~~	12:00	MW-10 Duplicate	G	X				1		
2-29-16	18:15	MW-11	G	X				1		
3-2-16	15:28	MW-12	G	X				1		
3-2-16	14:48	MW-13	G	X				1		
3-2-16	11:58	MW-14	G	X				1		
3-1-16	11:46	MW-15	G	X				1		
3-3-16	10:34	MW-16	G	X				1		
3-2-16	10:10	MW-17	G	X				1		
3-1-16	10:40	MW-18	G	X				1		
3-1-16	9:41	MW-19	G	X				1		
3-3-16	16:03	MW-20	G	X				1		
3-3-16	15:05	MW-21	G	X				1		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	3/4/16	12:53		3/4/16	13:20			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	3/4/16	12:53						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	3/5/16	11:43	YES ○ NO ○		680-122659	00/04 0.9/1.3 1.0/1.4

TAL8240-680 (1008)

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3/15/2016

Serial Number 95327

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax

681-Atlanta

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Bainbridge GA	400007 -4.5	GA
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Sheila Hoffman		
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Alan Sanders	770-772-7100	
CLIENT NAME	CLIENT E-MAIL	
EIC	asanders@eicusa.com	
CLIENT ADDRESS		
161 Kimball Bridge Rd. Alpharetta GA 30009		
COMPANY CONTRACTING THIS WORK (if applicable)		

MATRIX TYPE (COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...))

REQUIRED ANALYSIS: 8081B-8082A 2560B; NA

PAGE 3 OF 3

STANDARD REPORT DELIVERY ●
DATE DUE 3/18/16
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 3

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3-3-16	16:50	MW-22	G	X				1	
3-3-16	16:50	MW-22 Matrix Spike	G	X				1	
3-3-16	9:25	MW-23	G	X				1	
3-2-16	9:18	MW-24	G	X				1	
3-3-16	17:15	Equipment Blank	G	X				1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	3/4/16	12:53		3/4/16	Blind			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	3/4/16	12:53						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	3/5/16	11:43	YES ○ NO ○		680-122659	0.0/0.4 0.9/1.3 1.0/1.4

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Environmental International Corporation

Job Number: 680-122659-1

Login Number: 122659
List Number: 1
Creator: Kicklighter, Marilyn D

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Environmental International Corporation
Project/Site: 400007-4.5/Bainbridge, GA

TestAmerica Job ID: 680-122659-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-17
A2LA	ISO/IEC 17025		399.01	02-28-17
Alabama	State Program	4	41450	06-30-16
Alaska (UST)	State Program	10	UST-104	11-05-16
Arkansas DEQ	State Program	6	88-0692	01-31-17
California	State Program	9	2939	07-31-16
Colorado	State Program	8	N/A	12-31-16
Connecticut	State Program	1	PH-0161	03-31-17
Florida	NELAP	4	E87052	06-30-16
GA Dept. of Agriculture	State Program	4	N/A	06-12-17
Georgia	State Program	4	803	06-30-16
Guam	State Program	9	15-005r	04-16-16 *
Hawaii	State Program	9	N/A	06-30-16
Illinois	NELAP	5	200022	11-30-16
Indiana	State Program	5	N/A	06-30-16
Iowa	State Program	7	353	06-30-17
Kentucky (DW)	State Program	4	90084	12-31-16
Kentucky (UST)	State Program	4	18	06-30-16
Kentucky (WW)	State Program	4	90084	12-31-16
Louisiana	NELAP	6	30690	06-30-16
Louisiana (DW)	NELAP	6	LA160019	12-31-16
Maine	State Program	1	GA00006	09-24-16
Maryland	State Program	3	250	12-31-16
Massachusetts	State Program	1	M-GA006	06-30-16
Michigan	State Program	5	9925	03-05-16 *
Mississippi	State Program	4	N/A	06-30-16
Nebraska	State Program	7	TestAmerica-Savannah	06-30-16
New Jersey	NELAP	2	GA769	06-30-16
New Mexico	State Program	6	N/A	06-30-16
New York	NELAP	2	10842	03-31-16 *
North Carolina (DW)	State Program	4	13701	07-31-16
North Carolina (WW/SW)	State Program	4	269	12-31-16
Oklahoma	State Program	6	9984	08-31-16
Pennsylvania	NELAP	3	68-00474	06-30-16
Puerto Rico	State Program	2	GA00006	12-31-16
South Carolina	State Program	4	98001	06-30-16
Tennessee	State Program	4	TN02961	06-30-16
Texas	NELAP	6	T104704185-14-7	11-30-16
USDA	Federal		SAV 3-04	06-11-17
Virginia	NELAP	3	460161	06-14-16
Washington	State Program	10	C805	06-10-16
West Virginia (DW)	State Program	3	9950C	12-31-16
West Virginia DEP	State Program	3	094	06-30-16
Wisconsin	State Program	5	999819810	08-31-16
Wyoming	State Program	8	8TMS-L	06-30-16

* Certification renewal pending - certification considered valid.

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

SEVENTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT C
MIXING MODEL USGS DATA SOURCE

USGS Station 02356000 Flint River at Bainbridge, GA
Annual Average Discharge Data

Year	Annual Average Discharge (cfs)
2005	11860
2006	5417
2007	4019
2008	4788
2009	8091
2010	11620
2011	3924
2012	2620
2013	7484
2014	9019
2015	6759

Average (cfs)	6872.82

Notes:
US Geological Survey, Water Resources Data
retrieved: 2016-04-13 16:52:16 EDT

USGS Water-Year Summary 2015

02356000 FLINT RIVER AT BAINBRIDGE, GA

LOCATION - Lat 30°54'41", long 84°34'48" referenced to North American Datum of 1927, Decatur County, GA, Hydrologic Unit 03130008, on downstream side of bridge on US 27 (Business Route), 0.2 mi downstream from Seaboard Coast Line Railroad bridge, and 29.2 mi upstream from Jim Woodruff Dam, 5.19 mi upstream from confluence with Fourmile Creek, 2.37 mi downstream from confluence with Big Slough Creek, 0.6 mi northwest of Bainbridge, and at mile 29.0.

DRAINAGE AREA - 7,570 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD -
DISCHARGE: October 1907 to December 1913, October 1928 to September 1971, October 1971 to September 1996(annual peaks only), October 2001 to current year.
GAGE-HEIGHT: October 2001 to current year.
WATER VELOCITY: April 2001 to current year.

GAGE - Satellite telemetry with a water-stage recorder and an acoustic velocity meter. Datum of gage is 57.7 feet above North American Vertical Datum (NAVD) of 1988. Prior to December 31, 1913, a non-recording gage was located at same site at datum 0.3 feet higher. From October 1, 1928 to January 14, 1929, a non-recording gage was located at present site and datum. An auxiliary water-stage recorder was located at a site 6.4 miles upstream January 15, 1957 to September 1971.

COOPERATION - Georgia Department of Natural Resources, Environmental Protection Division.

REMARKS -
10/01/2013-09/30/2014: Discharge records fair, except for days of estimated discharge, which are poor. Gage-height and water velocity records are good.

10/01/2014-09/30/2015: Discharge records fair, except for days of estimated discharge, which are poor. Gage-height and water velocity records are good.

10/01/2015-01/05/2016: Discharge records fair, except for days of estimated discharge, which are poor. Gage-height and water velocity records are good.
Water velocity data represent water velocity at the downstream cross-section of the bridge with positive values in the downstream direction. Flow regulated by power plants at Flint River Reservoir since 1921, with a capacity of 7,500 acre-feet; and at Warwick Reservoir since 1930, with a capacity of about 35,000 acre-feet. Normal operation of power plants does not materially affect figures of monthly runoff.

EXTREMES OUTSIDE PERIOD OF RECORD - Maximum stage known since at least 1893, 40.9 feet, present datum, Jan. 24, 1925, discharge 101,000 cfs, from rating curve extended above 70,000 cfs on the basis of slope-conveyance studies.

EXTREMES FOR PERIOD OF RECORD - Maximum discharge recorded, 108,000 cfs, July 14, 1994; maximum gage height recorded, 37.20 feet, July 14, 1994; minimum daily discharge, 1,010 cfs, September 5, 2011.

U.S. Department of the Interior
U.S. Geological Survey

Suggested citation: U.S. Geological Survey, 2016, National Water Information System data available on the World Wide Web (USGS Water Data for the Nation), accessed [April 13, 2016], at URL http://nwis.waterdata.usgs.gov/nwis/wys_rpt?dd_parm_cds=001_00060&adr_begin_date=2014-10-01&adr_end_date=2015-09-30&site_no=02356000&agency_cd=USGS

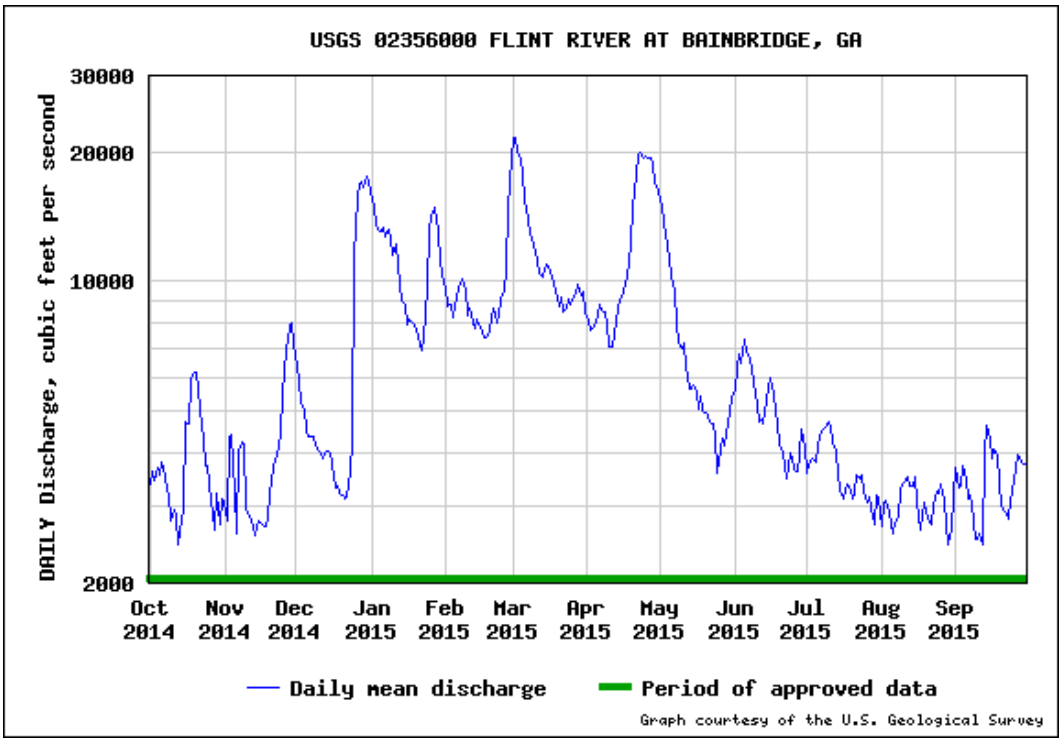
Water-Data Report 2015

02356000 FLINT RIVER AT BAINBRIDGE, GA -- Continued

SUMMARY STATISTICS

	Water Year 2015		Water Years 1908 - 2015	
Annual total	2,467,000			
Annual mean	6,759		8,299	
Highest annual mean			15,420	1912
Lowest annual mean			2,620	2012
Highest daily mean	21,600	Mar 01	82,700	Mar 21, 1929
Lowest daily mean	2,440	Aug 29	1,010	Sep 05, 2011
Annual 7-day minimum	2,717.0	Nov 12	1,196.0	Sep 01, 2011
Maximum peak flow			108,000	Jul 14, 1994
Maximum peak stage			40.90[a]	Jan 24, 1925
Annual runoff (cfsm)	0.893		1.09	
Annual runoff (inches)	12.1		14.8	
10 percent exceeds	13,240		15,900	
50 percent exceeds	4,730		6,140	
90 percent exceeds	2,880		2,950	

[a] Gage datum changed during this year



HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

SEVENTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT D
AOC-1 LEGAL DESCRIPTION

AOC - 1 LEGAL DESCRIPTION

ALL THAT CERTAIN PIECE, PARCEL OR TRACT OF LAND LOCATED IN DECATUR COUNTY, BAINBRIDGE GEORGIA, GEORGIA PORT AUTHORITY, AS SHOWN ON A MAP TITLED "BOUNDARY SURVEY OF AREA OF CONCERN 1 & 2", PREPARED BY JEFFREY W. MOCK RLS, DATED 2-25-16 AND MORE PARTICULARLY DESCRIBED AS FOLLOWS: (FENCE LOCATION AND WAREHOUSE LOCATION PROVIDED BY ENVIRONMENTAL INTERNATIONAL CORPORATION)

BEGINNING AT A PK NAIL HAVING A GEORGIA STATE PLANE WEST ZONE NORTHING OF 326983.69, EASTING OF 2158364.48; THENCE S 00°59'39"E, FOR A DISTANCE OF 19.08' TO A TURN IN FENCE LINE; THENCE S 01°46'53"W, FOR A DISTANCE OF 35.55' TO A TURN IN FENCE LINE; THENCE DEPARTING FENCE LINE S 01°46'53"W, FOR A DISTANCE OF 19.22 TO A POINT; THENCE N 89°57'28"W, FOR A DISTANCE OF 39.25' TO A TURN IN FENCE LINE; THENCE N 89°57'28"W, FOR A DISTANCE OF 80.14' TO A TURN IN FENCE LINE; THENCE N 71°39'50"W, FOR A DISTANCE OF 481.10' TO A TURN IN FENCE LINE; THENCE N 11°16'29"E, FOR A DISTANCE OF 107.54' TO A TURN IN FENCE LINE; THENCE N 46°38'21"E, FOR A DISTANCE OF 84.93' TO END OF FENCE; THENCE S 43°20'59"E, FOR A DISTANCE OF 137.93'ALONG THE SOUTHERLY SIDE OF THE ROCK SALT WAREHOUSE; THENCE N 45°56'01"E, FOR A DISTANCE OF 111.15' ALONG THE EASTERLY SIDE OF THE ROCK SALT WAREHOUSE TO A FENCE CORNER; THENCE S 40°54'37"E, FOR A DISTANCE OF 22.60' TO A TURN IN FENCE LINE; THENCE N 46°54'52"E, FOR A DISTANCE OF 52.67' TO A TURN IN FENCE LINE; THENCE N 53°33'41"E, FOR A DISTANCE OF 19.99' TO A TURN IN FENCE LINE; THENCE N 75°07'01"E, FOR A DISTANCE OF 21.29' TO A TURN IN FENCE LINE; THENCE S 76°47'51"E, FOR A DISTANCE OF 28.35' TO A TURN IN FENCE LINE; THENCE S 40°56'56"E, FOR A DISTANCE OF 288.42' TO A TURN IN FENCE LINE; THENCE S 27°41'31"E, FOR A DISTANCE OF 22.01' TO A TURN IN FENCE LINE; THENCE S 17°05'53"E, FOR A DISTANCE OF 11.35' TO A TURN IN FENCE LINE; WHICH IS THE POINT OF BEGINNING, HAVING AN AREA OF 110435.47 SQUARE FEET, 2.535 ACRES



HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

SEVENTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT E
AOC-2 LEGAL DESCRIPTION

AOC - 2 LEGAL DESCRIPTION

ALL THAT CERTAIN PIECE, PARCEL OR TRACT OF LAND LOCATED IN DECATUR COUNTY, BAINBRIDGE GEORGIA, GEORGIA PORT AUTHORITY, AS SHOWN ON A MAP TITLED "BOUNDARY SURVEY OF AREA OF CONCERN 1 & 2", PREPARED BY JEFFREY W. MOCK RLS, DATED 2-25-16 AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A PK NAIL HAVING A GEORGIA STATE PLANE WEST ZONE NORTHING OF 326983.69, EASTING OF 2158364.48; THENCE N 17°05'53"W, FOR A DISTANCE OF 11.35' TO A PK NAIL; THENCE N 27°41'31"W, FOR A DISTANCE OF 22.01' TO A PK NAIL; THENCE N 40°56'56"W, FOR A DISTANCE OF 288.42' TO A PK NAIL; THENCE N 76°47'51"W, FOR A DISTANCE OF 28.35' TO A PK NAIL; THENCE N 48°49'52"E, FOR A DISTANCE OF 269.22' TO AN IRON REBAR; THENCE S 40°58'42"E, FOR A DISTANCE OF 578.71' TO AN IRON REBAR; THENCE S 49°00'18"W, FOR A DISTANCE OF 148.95' TO A PK NAIL; THENCE N 41°00'16"W, FOR A DISTANCE OF 234.76' TO A PK NAIL; THENCE S 48°58'26"W, FOR A DISTANCE OF 113.37' TO A PK NAIL; WHICH IS THE POINT OF BEGINNING, HAVING AN AREA OF 122125.84 SQUARE FEET, 2.804 ACRES.



HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

SEVENTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT F
FEBRUARY 2016 AOC BOUNDARY AND UEC MONUMENT SURVEY

LEGEND

- IRON REBAR SET 5/8"
- IRON REBAR FOUND
- IRON PIPE FOUND
- CONCRETE MONUMENT FOUND

GRID NORTH, GA SPC NAD 83 (WEST ZONE)

N: 327415.56
E: 2158336.95
IRS

S 40°58'42" E

578.71'

N: 326978.65
E: 2158716.45
IRS

S 49°00'18" W

149.95'

N: 326880.94
E: 2158604.03
PKS

N 41°00'16" W

234.76'

N: 327058.10
E: 2158450.00
PKS

S 48°58'26" W

CONCRETE LOADING DOCK

269.22'

N 48°19'32" E

AREA OF CONCERN 2
2.804 Acres

20 19 21 22 18

GPS #2 PK NAIL
N: 327231.86
E: 2158161.89
EL. 95.51

28.35'
N 76°47'51" W

PKS

S 40°56'56" E

288.42'

N 40°56'56" W

288.42

PRS

N: 327014.02
E: 2158350.91

113.37'

L2
L3
L4
L5

PKS

POINT OF BEGINNING
N: 326983.69
E: 2158364.48

GPS #2 PK NAIL
N: 326836.08
E: 2158515.21
EL. 95.51

N: 327238.34
E: 2158134.29

S 76°47'51" E
28.35'

L8
L7

32.67'

N 46°54'32" E

N: 326994.53
E: 2158361.14

S 01°46'23" W

55.55'

54.77'

19.22'

39.25'

N 89°57'28" W

26
23
24
25

PLANTER

MAIN OFFICE

AIR CONDITIONER

L6

111.15'

FENCE TIES TO BUILDING

INSTALLED FENCE LINE

80.14'

119.39'

N 71°39'50" W

ROCK SALT WAREHOUSE

AREA OF CONCERN 1
2.535 Acres

N 45°56'01" E

S 43°20'59" E

137.93'

64.93'

FENCE TIES TO BUILDING

EQUIPMENT STORAGE AND MAINTENANCE (CONCRETE FLOOR)

N 46°38'21" E

101.54'

RAILROAD TRACK

N 11°16'29" E

481.10'

LINE	BEARING	DISTANCE
L1	N 17°05'53" W	11.35
L2	N 27°41'31" W	22.01
L3	S 27°41'31" E	22.01
L4	S 17°05'53" E	11.35
L5	S 00°59'39" E	19.08
L6	S 40°54'37" E	22.60
L7	N 53°33'41" E	19.99
L8	N 75°07'01" E	21.29

PT#	NORTHERN	EASTERN	ELEV	DESCRIPTION
18	327219.66	2158308.02	96.35	EDGE CONCRETE
19	327220.26	2158308.77	96.37	EDGE CONCRETE
20	327221.80	2158307.54	96.37	EDGE CONCRETE
21	327221.19	2158306.79	96.33	EDGE CONCRETE
22	327220.30	2158307.31	95.98	SPOT ELEV
23	326925.05	2158356.39	96.88	EDGE CONCRETE
24	326924.11	2158356.48	96.88	EDGE CONCRETE
25	326924.28	2158358.45	96.88	EDGE CONCRETE
26	326925.24	2158358.35	96.88	EDGE CONCRETE

1. NO ABSTRACT OF TITLE, TITLE COMMITMENT, OR RESULTS OF A TITLE SEARCH WERE FURNISHED TO THE SURVEYOR. ALL DOCUMENTS OF RECORD REVIEWED ARE NOTED HEREON. OTHER DOCUMENTS OF RECORD AFFECTING THIS SURVEYED PARCEL MAY EXIST.

2. HORIZONTAL AND VERTICAL DATUM BASED UPON GEORGIA STATE PLANE WEST ZONE AND NAVD 88 VERTICAL.

3. BACKGROUND INFORMATION SHOWN TAKEN FROM DRAWING PROVIDED BY ENVIROMENTAL INTERNATIONAL CORPORATION.

4. AREA OF CONCERN 1, MORE OR LESS, RUNS ALONG A FENCE LINE WHICH WAS PROVIDED BY ENVIROMENTAL INTERNATIONAL CORPORATION, WITH EXCEPTION TO THE AREA NOTED NEAR MAIN OFFICE.

E.O.C. FIELD: 1:20,783
MIN. E.O.C. PLAT: 1:113,890 (PARCEL 1)
MIN. E.O.C. PLAT: 1: 97,167 (PARCEL 2)
ANGULAR ERROR: 00.07" PER ANGLE ADJUSTED BY: COMPASS RULE
EQUIPMENT USED: TOPCON GTS 313

MOCK SURVEYING, INC.
9134 OLD RIVER ROAD
BROOKLET, GA 30415
PH:(912) 657-4010
SURVEYING@BULLOCH.NET

GEORGIA
REGISTERED
No. LS002992
GEORGIA
JEFFREY WAYNE MOCK
2/12/2016

IN MY PROFESSIONAL OPINION THIS SURVEY WAS PREPARED IN CONFORMITY WITH THE TECHNICAL STANDARDS FOR PROPERTY SURVEYS IN GEORGIA AS SET FORTH IN CHAPTER 180-7 OF THE RULES OF GEORGIA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS AS SET FORTH IN THE GEORGIA PLAT ACT O.C.G.A. 15-67-67.

30' 15' 0' 30'
GRAPHIC SCALE: 1"=30'-0"

BOUNDARY SURVEY OF AREA OF CONCERN 1 & 2 FOR ENVIROMANTAL INTERNATIONAL CORPORATION AN AREA OF GEORGIA PORT AUTHORITY DECATUR COUNTY, BAINBRIDGE GEORGIA

PROJECT NO.:	16-012
DRAWN BY:	JWM
SURVEYED BY:	AWM
SURVEY DATE:	2-16-16
CHECKED BY:	JWM
SCALE:	1" = 30'
DATE:	2-24-16

SHEET 1 OF 1

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

SEVENTH VIRP SEMI-ANNUAL PROGRESS REPORT

ATTACHMENT G
MONTHLY SUMMARY OF HOURS INVOICED

Environmental International Corporation

GPA VIRP

November 15, 2015 through March 31, 2016

TASKS	Nov 15	Dec 15	Jan 16	Feb 16	Mar 16	TOTAL
Task 4.5 Groundwater remediation	55	155	76	260	179	725
Task 4.6 Meetings and site visits	0	44	0	0	0	44
Total Hours	**55**	**200**	**76**	**260**	**179**	**769**

HSI SITE 10071, GEORGIA PORTS AUTHORITY – BAINBRIDGE TERMINAL

SEVENTH VIRP SEMI-ANNUAL PROGRESS REPORT

EXHIBIT A
BAINBRIDGE GEORGIA GULF SULFUR MANUFACTURING PLANT WEB PUBLICATION

Georgia Gulf Sulfur Corporation

Georgia Gulf Sulfur Corporation and Bainbridge Chemical Corporation

1300 Spring Creek Rd
PO Box 67
Bainbridge, Georgia USA
39818
plant phone
(229) 246-4552
plant fax
(229) 246-3245
sales order phone
(229) 244-0000
sales order fax
(229) 245-1664



Customer Service Representative
Shirley Howling
shirley@georgiagulfsulfur.com

National Sales Manager
Keith B. Adams
keith@georgiagulfsulfur.com

Company History

The Georgia Gulf Sulfur manufacturing plant, in Bainbridge Georgia, was conceived and built in the late 1950's to expand Mr. R.A. Griffin's seed and chemical formulation business into the manufacture of sulfur fungicides and miticides. A plant site was purchased on Spring Creek Road, adjacent to the Texas Gulf Sulfur storage facility, at Georgia's inland port facility, on the Flint River. Production commenced in 1959 using dry bulk sulfur from the Texas Gulf Sulfur terminal. Sulfur supply was changed to molten sulfur in 1974. In 1983 a fluid sulfur production unit was added to the site, currently operating as Bainbridge Chemical Corporation.



Travel Directions:

From Interstate 10, Tallahassee FL

Exit onto U.S. 27 North from Tallahassee, Florida. When reaching Bainbridge, Georgia at the junction of U.S. 27 and U.S. 84, turn left onto U.S. 27 North / U.S. 84 West. Proceed to the first exit past the Flint River crossing and exit on State Road 253 / Spring Creek Road. Turn left and proceed one mile. Georgia Gulf Sulfur Corporation and Bainbridge Chemical Corporation are located on the right.



From Interstate 75, Valdosta GA

Exit west on U.S. 84 Valdosta, Georgia. Proceed west 82 miles to Bainbridge, Georgia. Turn left on U.S. 84 West Bypass on the east side of Bainbridge. Proceed to the first exit past the Flint River crossing and exit at State Road 253 / Spring Creek Road. Turn left and proceed on State Road 253 one mile. Georgia Gulf Sulfur Corporation and Bainbridge Chemical Corporation are located on the right.



E-mail us with your product sample requests !

Technical Product Data
Georgia Gulf Sulfur Corporation

Product Name	Assay or Purity	Ash	Acidity	Heat Loss or Moisture	Processing Oil	Other Additives	Fineness - % through US screens
Rubbermaker's sulfurs							
GGS-10	99.5% min	0.10% max	0.01% max	0.15% max	-	-	100 Mesh - 99.5% min 200 Mesh - 90% to 96%
GGS-11	99.5% min	0.10% max	0.01% max	0.15% max	-	-	200 Mesh - 98% min
GGS-20	99.0% min	0.10% max	0.01% max	0.15% max	0.35% to .50%	-	100 Mesh - 99.5% min 200 Mesh - 90% to 96%
GGS-33	99.5% min	0.10% max	0.01% max	0.15% max	-	-	100 Mesh - 99.5% min 325 Mesh - 95% min

GGS-35	98.75% min	0.35% max	0.01% max	0.15% max	.75% max	.25% max	100 Mesh - 99.5% min 325 Mesh - 90% to 95%
GGS-40	99.5% min	0.10% max	0.01% max	0.15% max	-	-	80 Mesh - 90% min
MCO 2.5	97.0% min	2.5% max	0.01% max	0.15% max	.50% max	2.0% max	200 Mesh - 99% min 325 Mesh - 90% to 95%
MC HOT	96.4% min	2.6% max	0.01% max	0.15% max	1.0% max	2.5% max	200 Mesh - 99% min 325 Mesh - 90% to 95%
MC 98	97.5% min	2.1% max	0.01% max	0.15% max	-	2.0% max	100 Mesh - 99.9% min 325 Mesh - 98% min
Industrial sulfurs							
Code 803R	99.5% min	0.10% max	0.01% max	0.15% max	-	-	200 Mesh - 60% to 80%
Drum Flake	99.5% min	0.10% max	0.01% max	0.15% max	-	-	1/2" Mesh - 95.0% min
Code 420	99.5% min	0.10% max	0.01% max	0.15% max	-	-	4 Mesh - 99.5% min 20 Mesh - 5.0% max
Pastille	99.5% min	0.10% max	0.01% max	0.10% max	-	-	4 Mesh - 98.0% min 100 Mesh - 2.0% max
70% Emulsified	69% to 72%	-	-	-	-	28% to 31%	less than 5 microns
Agricultural sulfurs - Yellow Jacket®							
Wettable Dusting	90% min	-	-	-	-	10% max	325 Mesh - 93% min
Granular	90% min	-	-	-	-	10% max	granules
Dust Free Suspension	95% min	-	-	-	-	5% max	200 Mesh - 85% to 92%
Flowable	53% min	-	-	-	-	47.0%	contains 6 pounds of sulfur per gallon

Yellow Jacket® sulfurs are a registered trademark of Georgia Gulf Sulfur Corporation.

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