Our Contribution to the Environment®

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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
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Prepared for:
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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

GEORGIA REGISTERED No. 23198 PROFESSIONAL ENGINEER BASAVARAJ MAHADEVAIAH

Signature and Stamp

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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
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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,

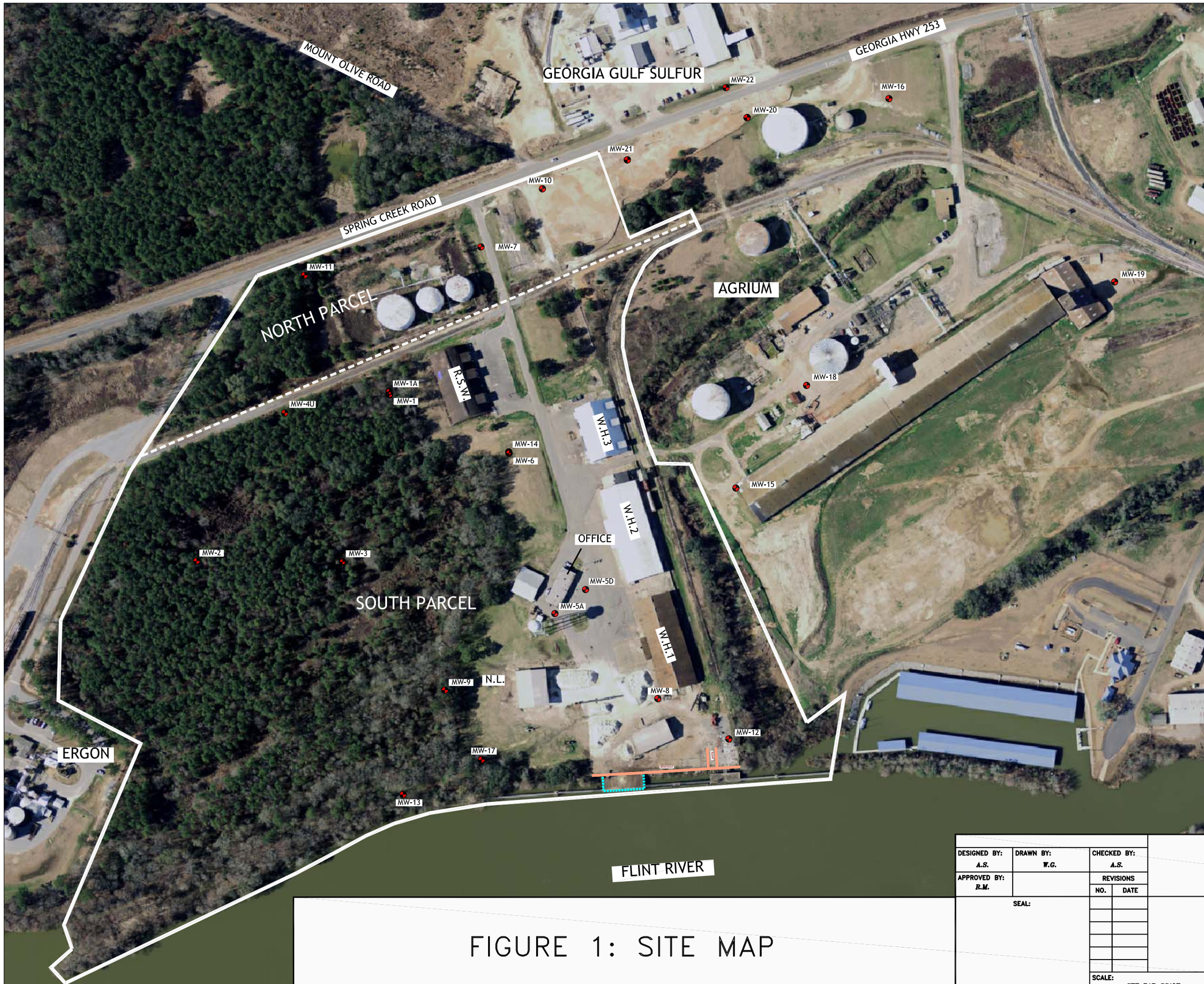
ENVIRONMENTAL INTERNATIONAL CORPORATION

Raj Mahadevaiah, P.E., C.G.W.P.

President & CEO

Cc: Alan Sanders, EIC

FIGURES



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.	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: 10/9/2013	FILE: 400007 – GPA BAINBRIDGE	SHEET NO.:

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.

GEORGIA
REGISTERED
No. 003122
LAND SURVEYOR
DAVID G. BENNETT

6/28/13

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.

GEORGIA
REGISTERED
No. 003122
LAND SURVEYOR
DAVID G. BENNETT

6/28/13

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

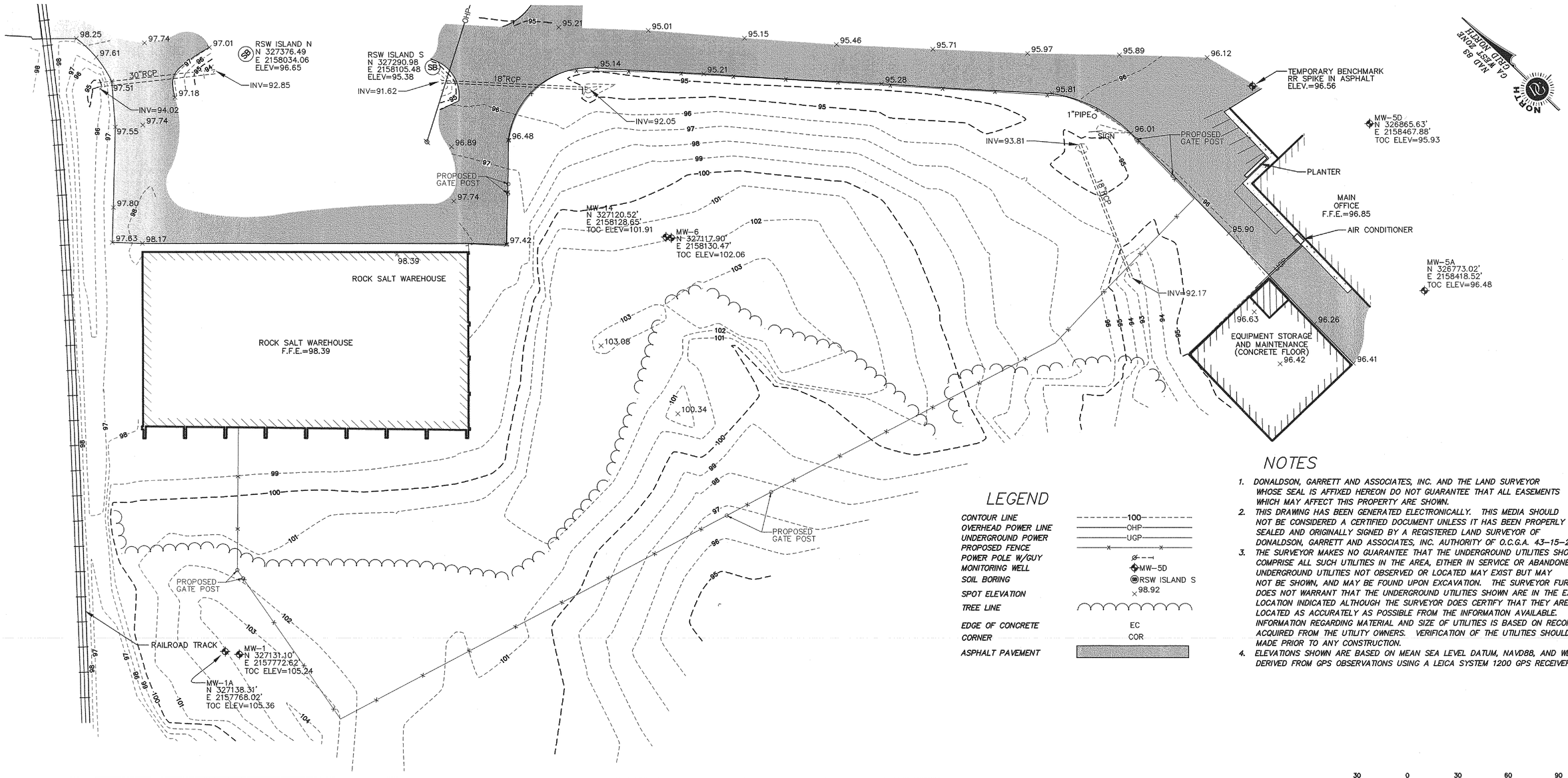
E= END
CK = CHECK
TRV (+ PT #) = TRAVERSE POINT/SURVEY CONTROL POINT
WH = WAREHOUSE
RSW = ROCK SALT WAREHOUSE
N = NORTH
S = SOUTH
E = EAST
W = WEST
MW = MONITORING WELL
SB = SOIL BORING
COR = CORNER
CHF = CHAIN LINK FENCE

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.

GEORGIA
REGISTERED
No. 003122
LAND SURVEYOR
DAVID G. BENNETT

6/28/13

ATTACHMENT B



NOTES

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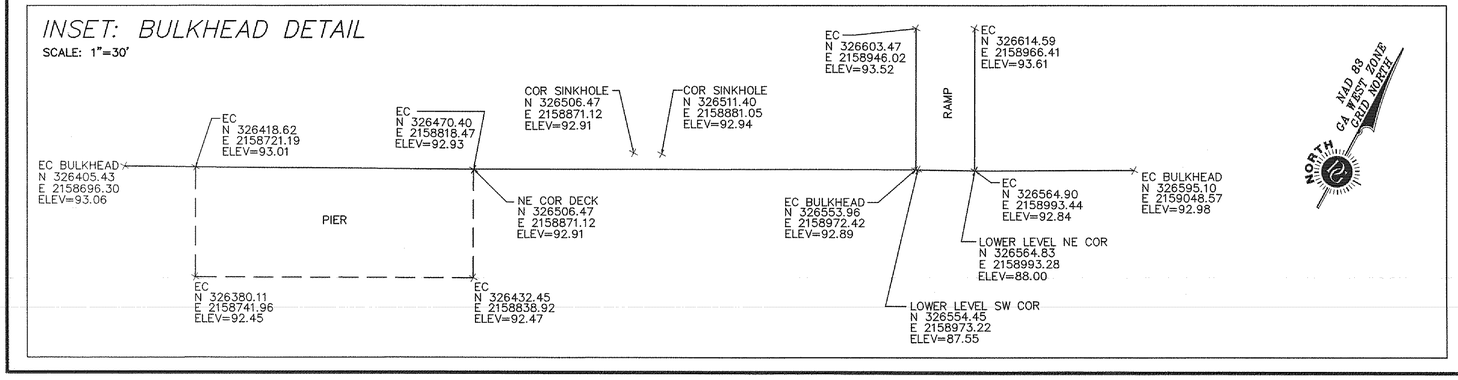
4. ELEVATIONS SHOWN ARE BASED ON MEAN SEA LEVEL DATUM, NAVD88, AND WERE DERIVED FROM GPS OBSERVATIONS USING A LEICA SYSTEM 1200 GPS RECEIVER.

LEGEND

CONTOUR LINE	100
OVERHEAD POWER LINE	OHP
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	

INSET: BULKHEAD DETAIL

SCALE: 1"=30'



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

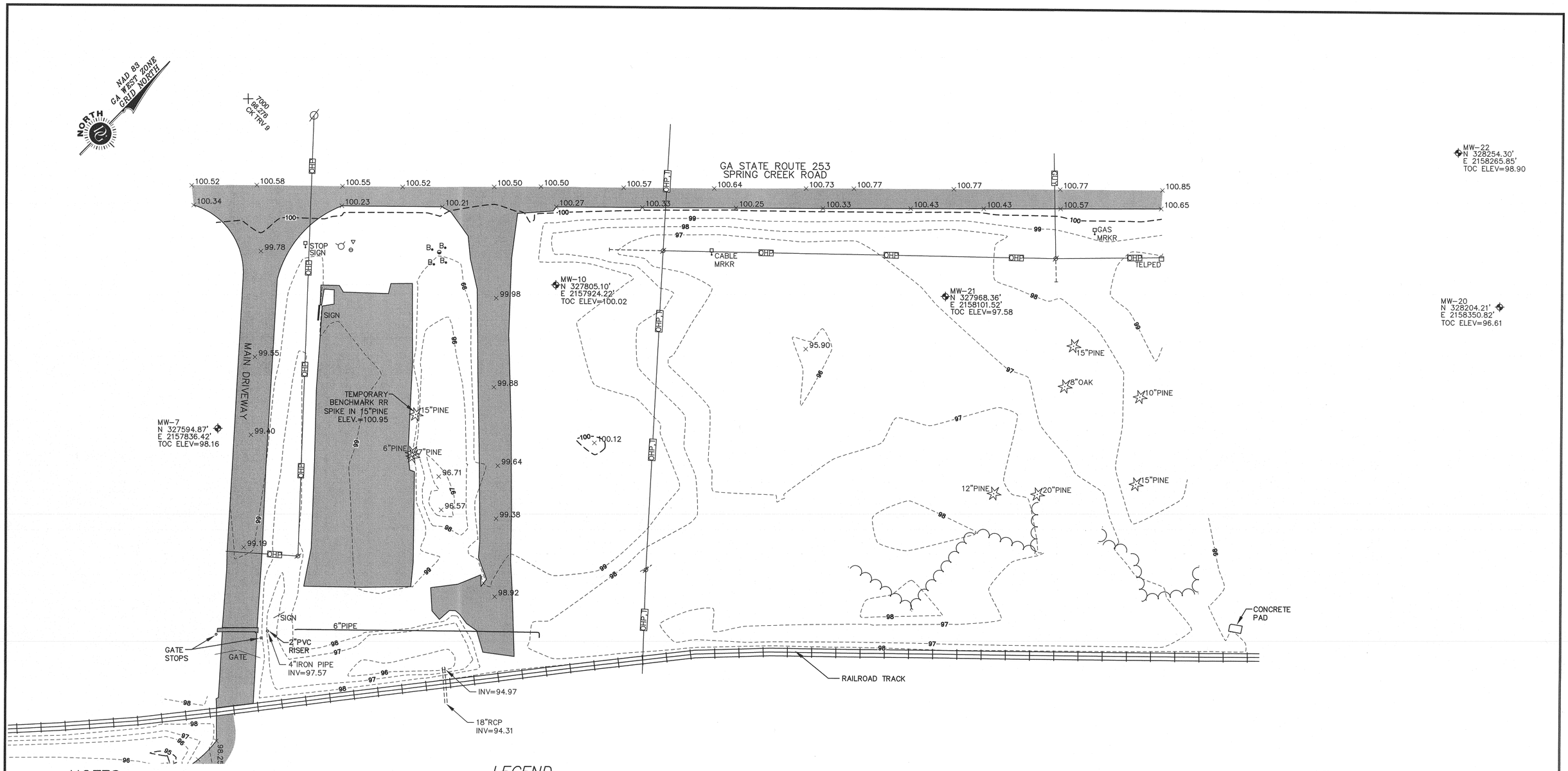
DECATUR COUNTY BAINBRIDGE GEORGIA

6-23-10 ADDED TOPO NW OF ROCK SALT WAREHOUSE	R.L.S. NO. 3122	DSGN: N/A	DONALDSON, GARRETT, & ASSOCIATES, INC.
6-28-13 ADDED SB'S, BULKHEAD DETAIL, AND	DATE: 10/21/09	DRWN: MH	MACON • CHARLOTTE
PROPOSED FENCE LOCATION	CHKD: DB	FIELD FILE: B186;B346	4875 RIVERSIDE DRIVE P.O. BOX 7306 MACON, GA 31210
10-14-13 CHANGED LINETYPE ON PIER AND BULKHEAD	SCALE: 1"=30'	DRAWING NO. 2934-09-D	(478)474-5350 Fax: (478) 477-2534 http://www.dg-a.com
	PROJ. NO.: 1684-031-D1	SHEET 1 OF 1	
	FIELD BOOK: EDC		

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.

B346.DWG/30 PLOT DATE: 06/17/2013 BY: david

ATTACHMENT C



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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	B
SIGN	
FIRE HYDRANT	
WATER VALVE	
WATER METER	
GAS VALVE AND METER	
SPOT ELEVATION	98.92
TREE (SIZE AND TYPE NOTED)	
ASPHALT PAVEMENT	
TREE LINE	

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		

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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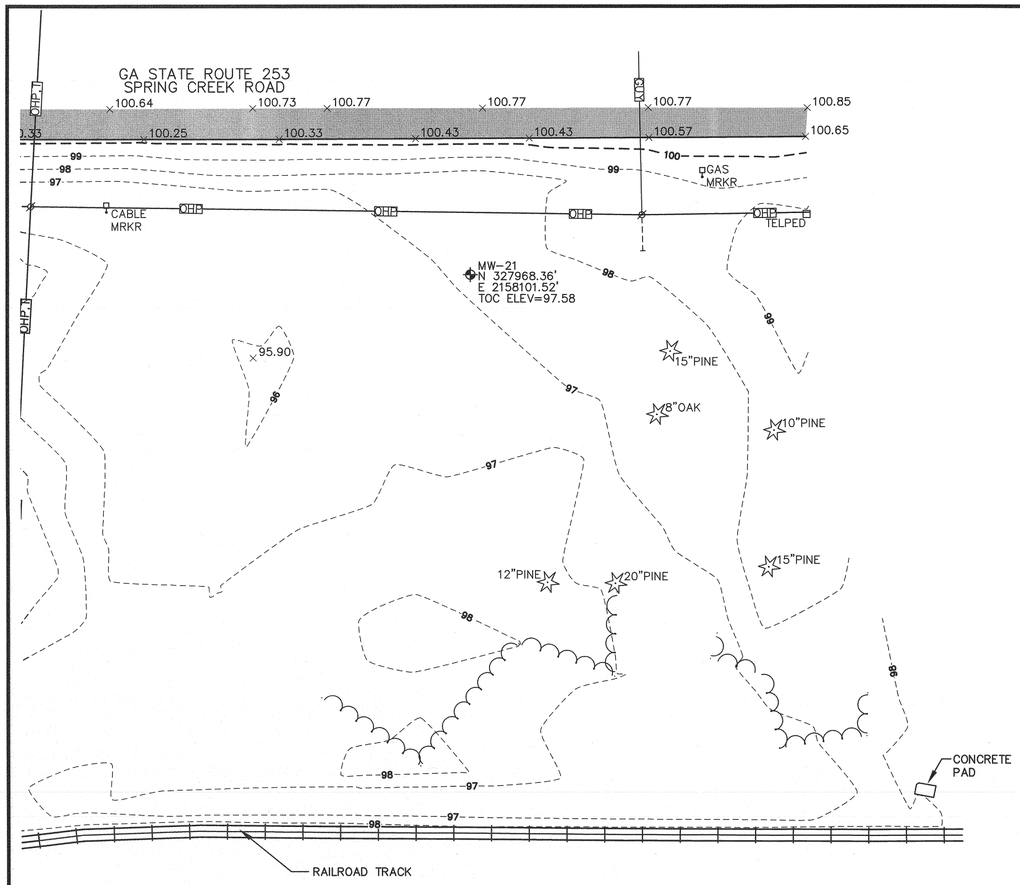

MW-22
N 328254.30'
E 2158265.85'
TOC ELEV=98.90

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	98.92
TREE (SIZE AND TYPE NOTED)	
ASPHALT PAVEMENT	
TREE LINE	

NOTES

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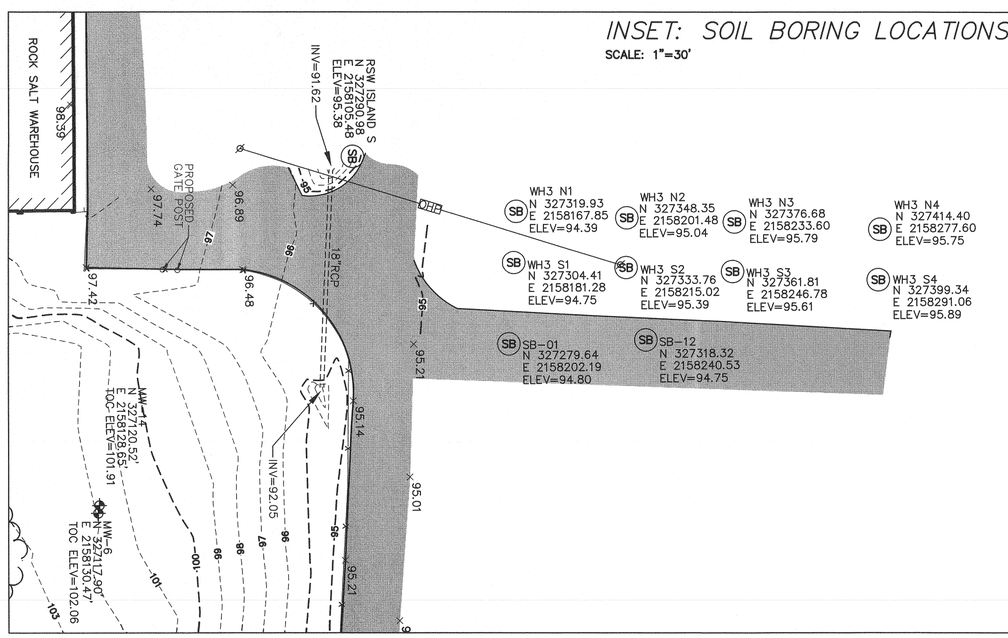
2. THIS DRAWING HAS BEEN GENERATED ELECTRONICALLY. THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT UNLESS IT HAS BEEN PROPERLY SEALED AND ORIGINALLY SIGNED BY A REGISTERED LAND SURVEYOR OF DONALDSON, GARRETT AND ASSOCIATES, INC. AUTHORITY OF O.C.G.A. 43-15-22.
3. THE SURVEYOR MAKES NO GUARANTEE 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: SOIL BORING LOCATIONS

SCALE: 1"=30'



30 0 30 60 90

GRAPHIC SCALE IN FEET

GEORGIA REGISTERED No. 3122 LAND SURVEYOR DARRIN 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	

DONALDSON, GARRETT, & ASSOCIATES, INC.
MACON • CHARLOTTE
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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.

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	
SEAL:		1 / 9/18/2013	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.

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

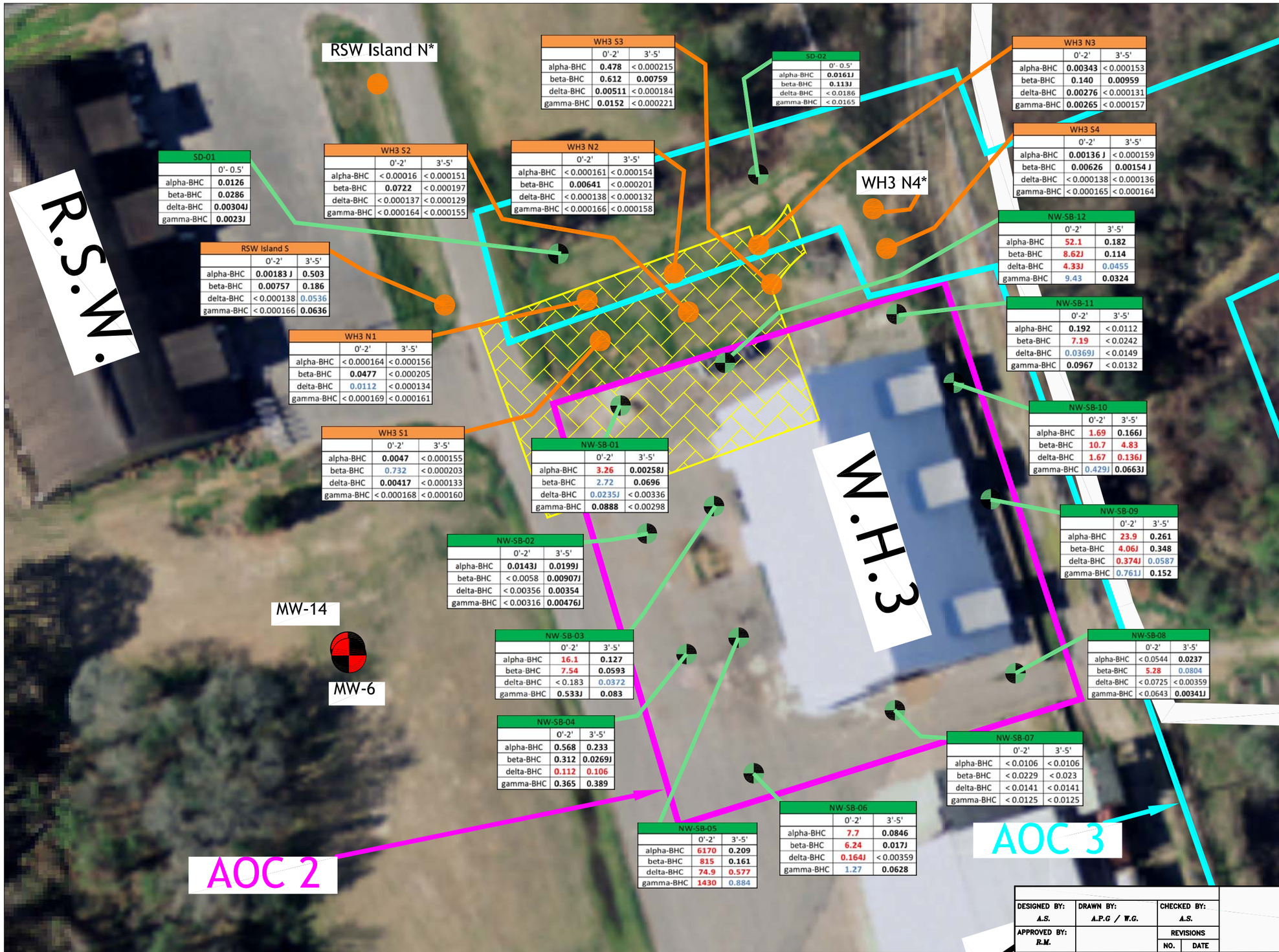
		SW-846 8081B	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	Heptachlor	Aldrin	Heptachlor epoxide	Endosulfan I	Dieldrin	4,4'-DDE	Endrin	Endosulfan II	4,4'-DDD	Endosulfan sulfate	4,4'-DDT	Methoxychlor	Endrin aldehyde	gamma-Chlordane	alpha-Chlordane	Endrin ketone	Toxaphene
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	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



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

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 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 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

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 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

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**

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

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**

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-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-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-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

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-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-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-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

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: A.S.	DRAWN BY: A.P.G / 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	400007-4.2 – 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

XENCO Laboratories
Florida Testing Services, LLC

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

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 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	

Certificate of Analytical Results 464860

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	

Certificate of Analytical Results 464860

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

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	

Certificate of Analytical Results 464860

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

GPA Bainbridge, GA

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

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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	

Certificate of Analytical Results 464860

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	

Certificate of Analytical Results 464860

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

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	

Certificate of Analytical Results 464860

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

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	

Certificate of Analytical Results 464860

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

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	

Certificate of Analytical Results 464860

Environmental International Corporation, Alpharetta, GA

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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

XENCO Laboratories
Florida Testing Services, LLC

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

XENCO Laboratories
Florida Testing Services, LLC

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

XENCO Laboratories
Florida Testing Services, LLC

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

XENCO Laboratories
Florida Testing Services, LLC

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
☐ Philadephia/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: ☒ Previously done at XENCO — GPA - Bainbridge
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

Remarks: From: Rcv by: Date: Addn:

	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/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
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:~~12~~ 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				

Total Containers per COC: 20 Cooler Temp: 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	6/11/13 1302
2) 3)		4)	
3) 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.

XENCO Laboratories

☐ 3231 NW 7th Ave, Boca Raton, Fl 33431 561-447-7373
☐ 2505 Falkenburg Rd, Tampa, Fl 33569 813-620-2000
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☐ 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: W 0774 4860 [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		Taken off hold 6/18/2013 by Alan Sanders					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	RSW Island N 0'-2'	6/10/13	9:38		S		X	1	4	C	NA										X														1
2	RSW Island N 3'-5'	6/10/13	9:52		S		X	1	4	C	NA										X														2
3	WH3-N-1 0'-2'	6/10/13	16:15		S		X	1	4	C	NA										X		X												3
4	WH3-N-1 3'-5'	6/10/13	16:20		S		X	1	4	C	NA										X		X												4
5	WH3-N-2 0'-2'	6/10/13	14:40		S		X	1	4	C	NA										X		X												5
6	WH3-N-2 3'-5'	6/10/13	14:47		S		X	1	4	C	NA										X		X												6
7	WH3-N-3 0'-2'	6/10/13	13:19		S		X	1	4	C	NA										X		X												7
8	WH3-N-3 3'-5'	6/10/13	13:32		S		X	1	4	C	NA										X		X												8
9	WH3-N-4 0'-2'	6/10/13	11:45		S		X	1	4	C	NA										X														9
10	WH3-N-4 3'-5'	6/10/13	11:58		S		X	1	4	C	NA										X														10

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
2) 3)		4)	
3) 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.

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
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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.

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.

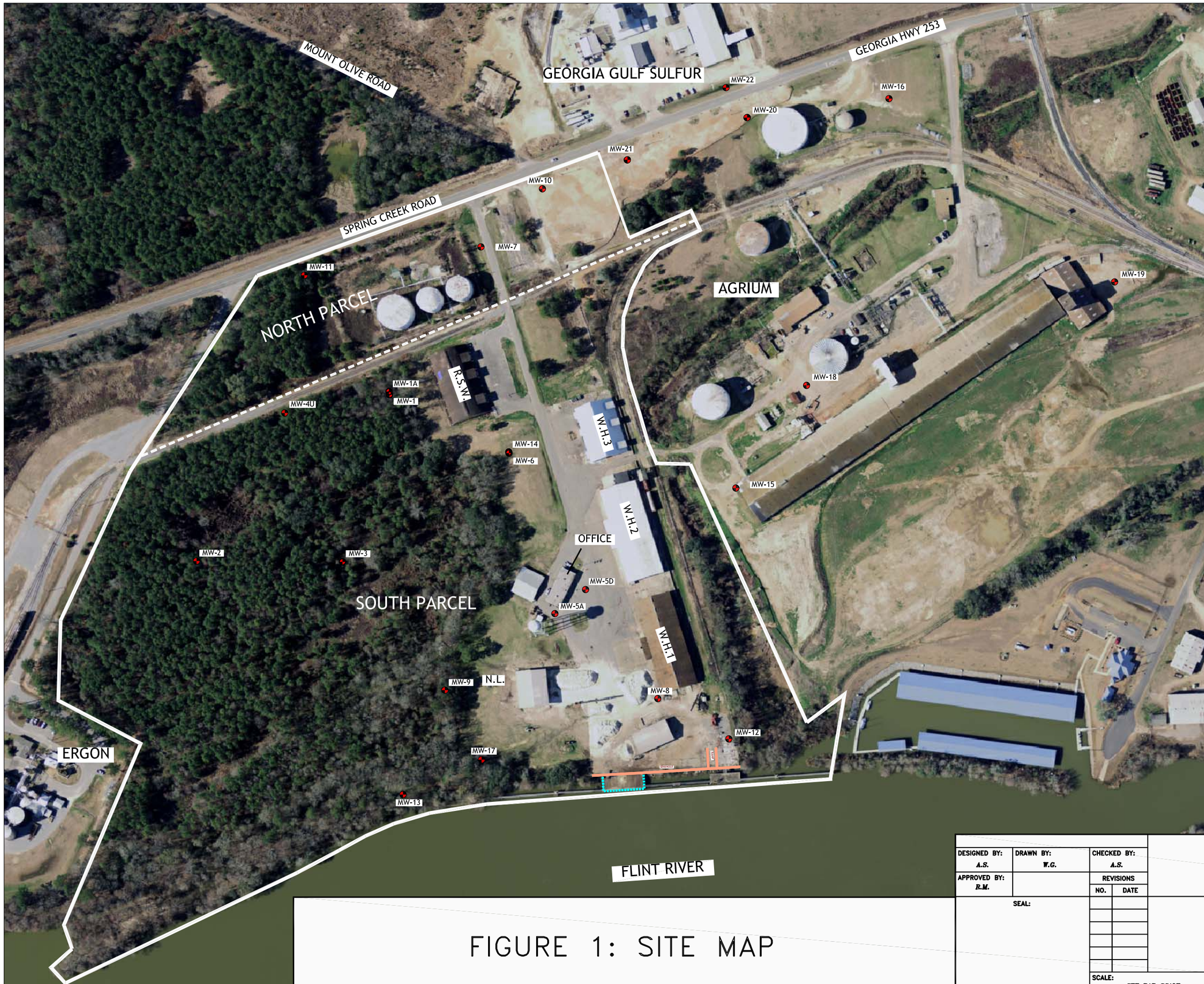
1.50 = Result above detection limit.

NM = Contaminant Not Measured.

NL = Well not located

NS = Well not sampled

FIGURES



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.

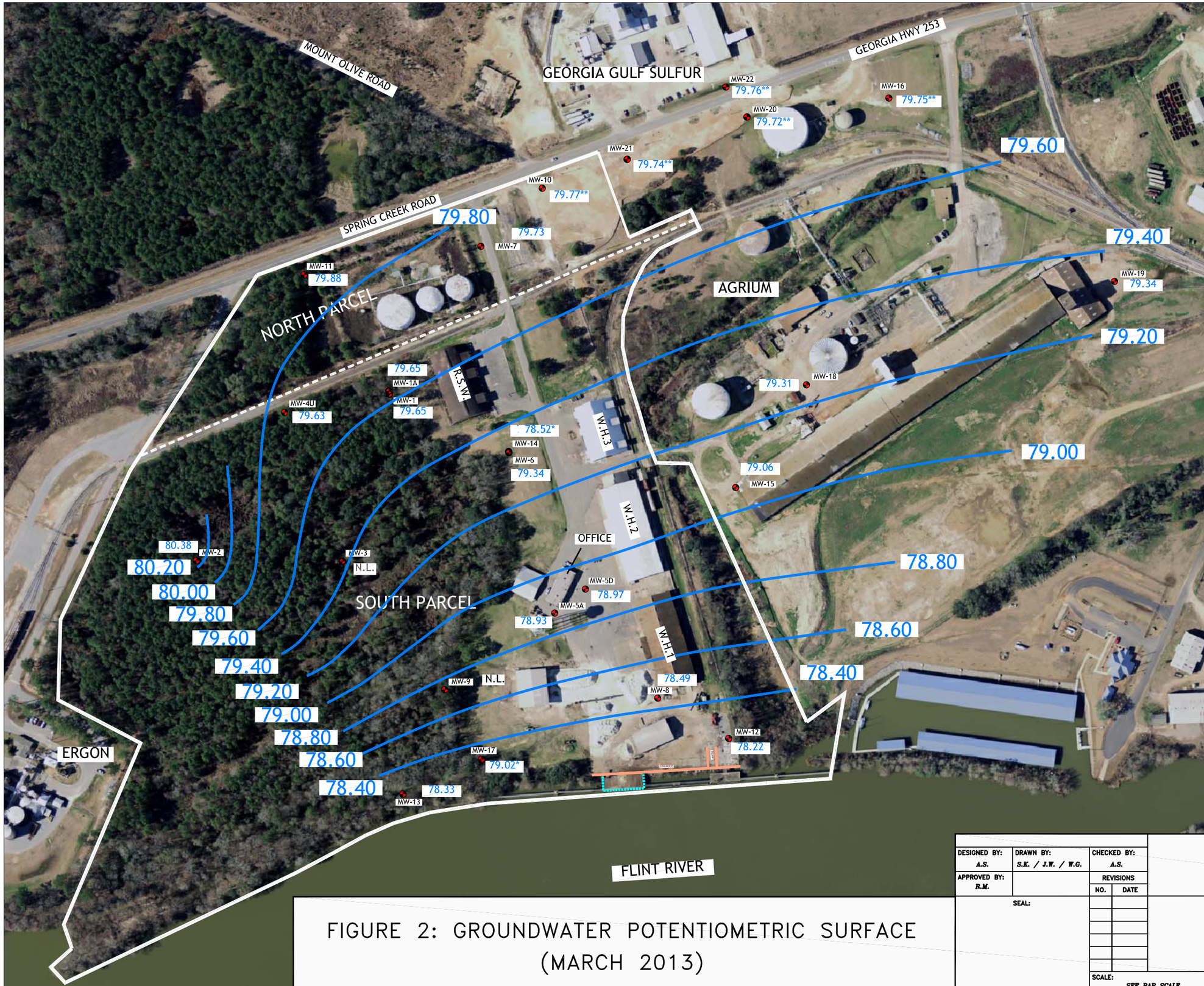
N

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.	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: 10/9/2013	FILE: 400007 – 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
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.

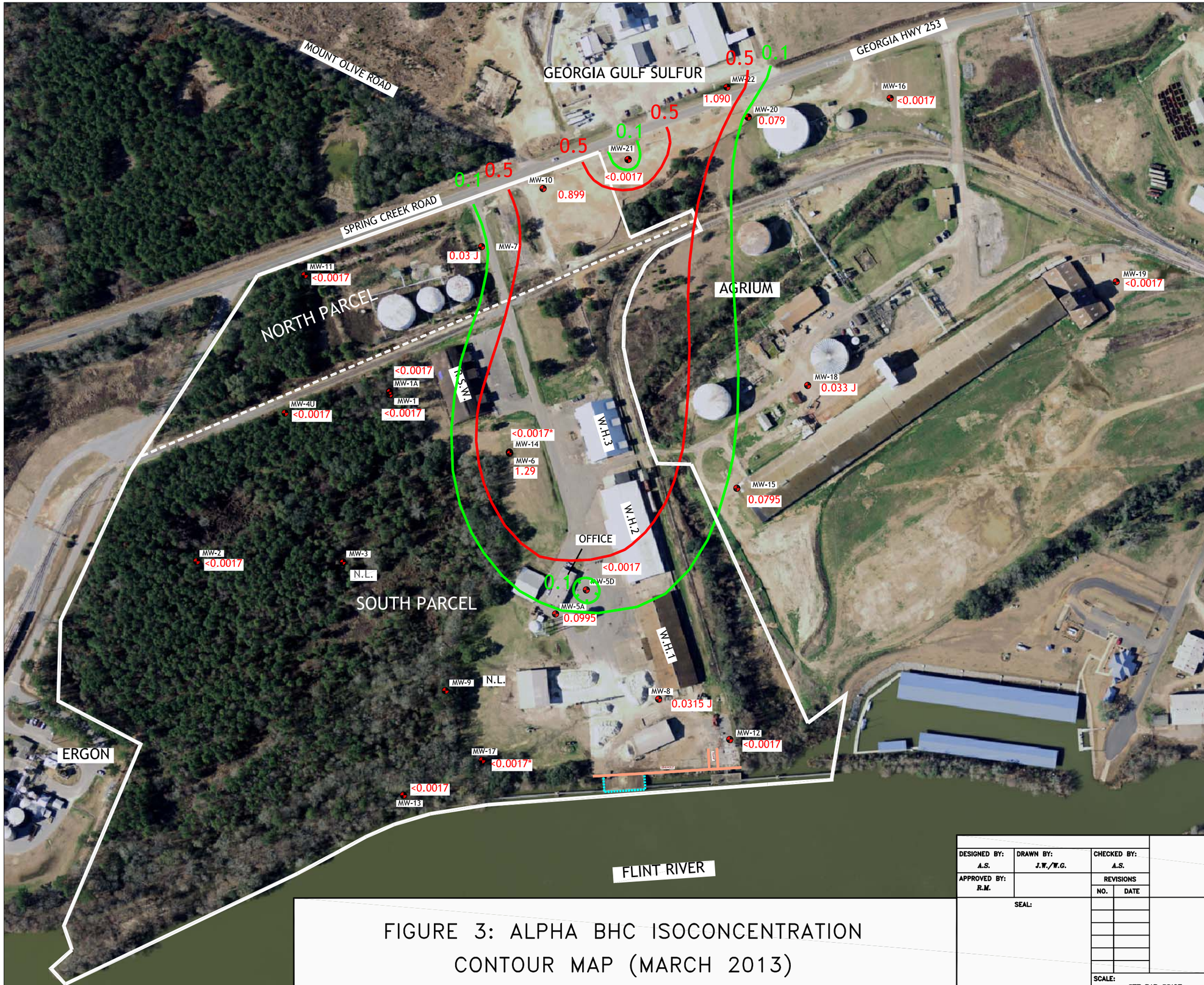
N

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.

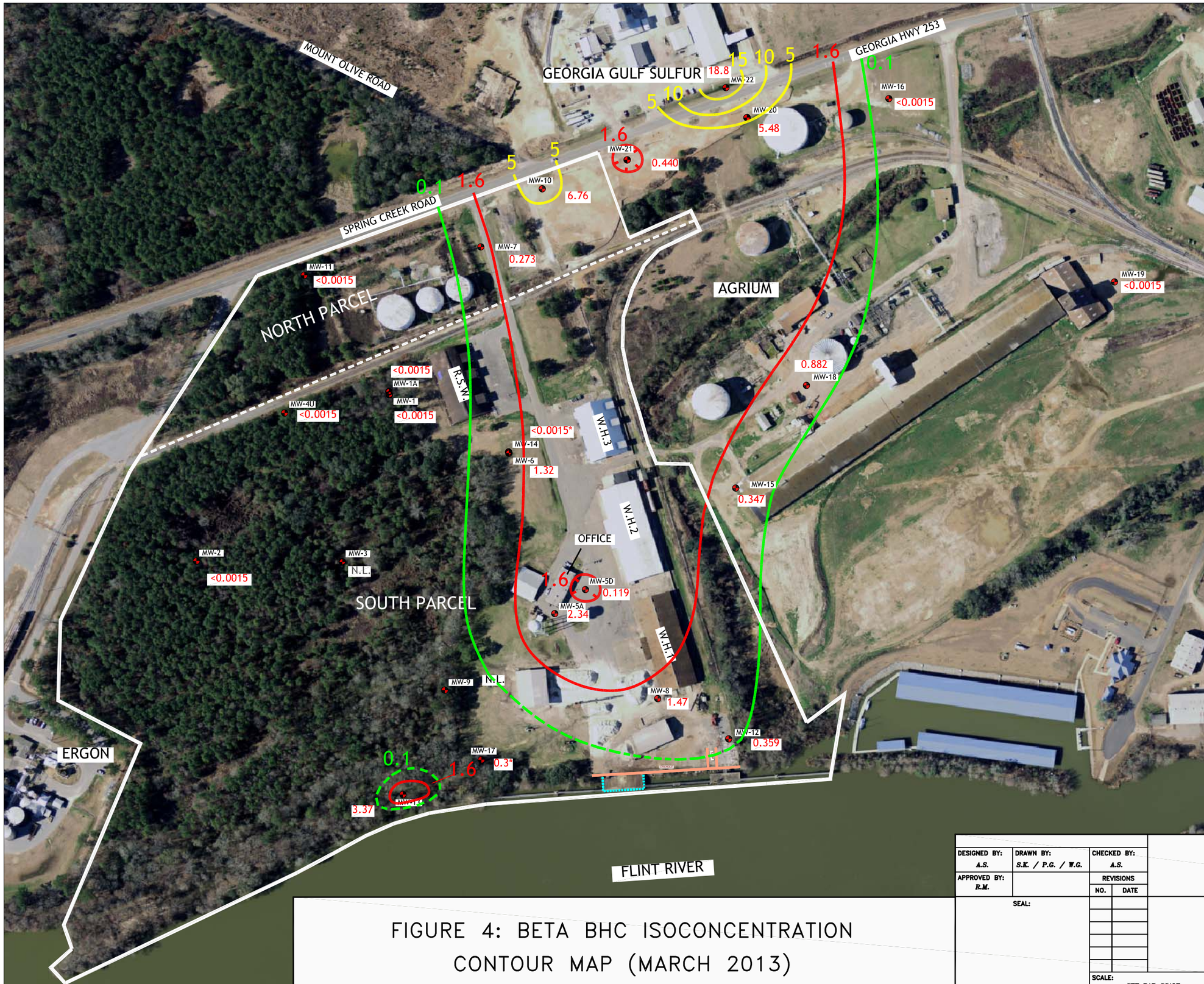
N

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.	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: 9/23/2013	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
0.119	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

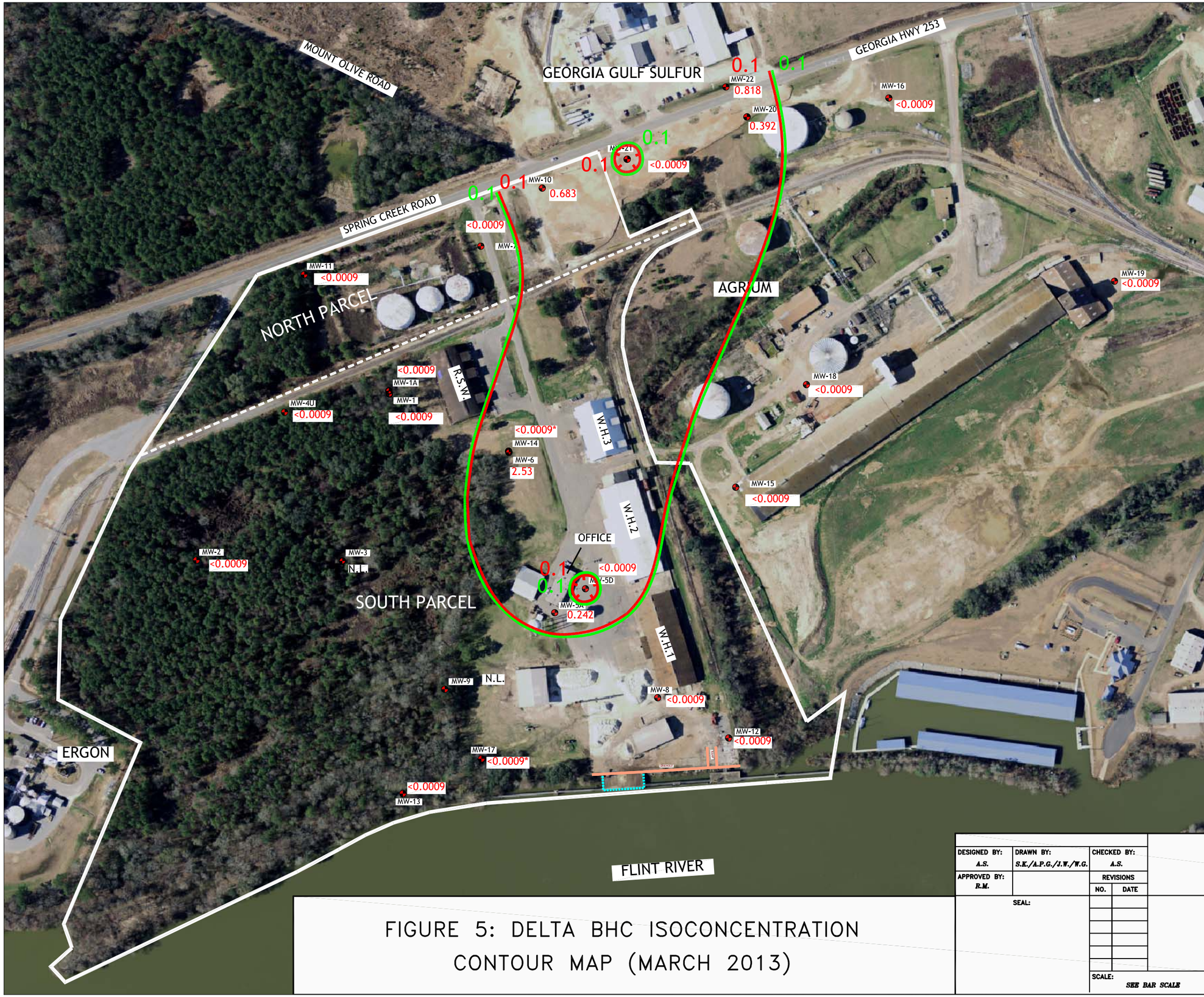
N

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.

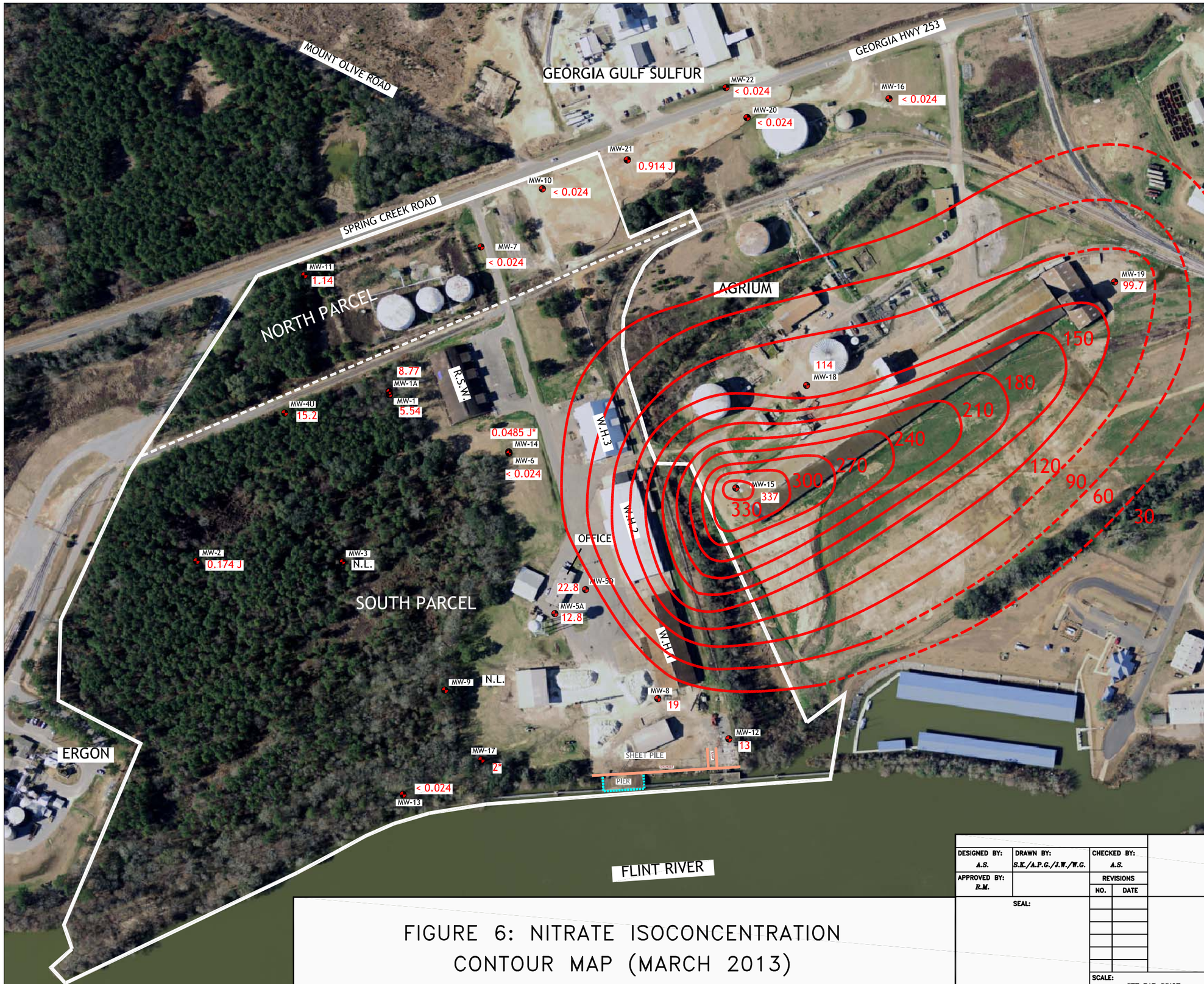
N

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.	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: 9/23/2013	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
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.

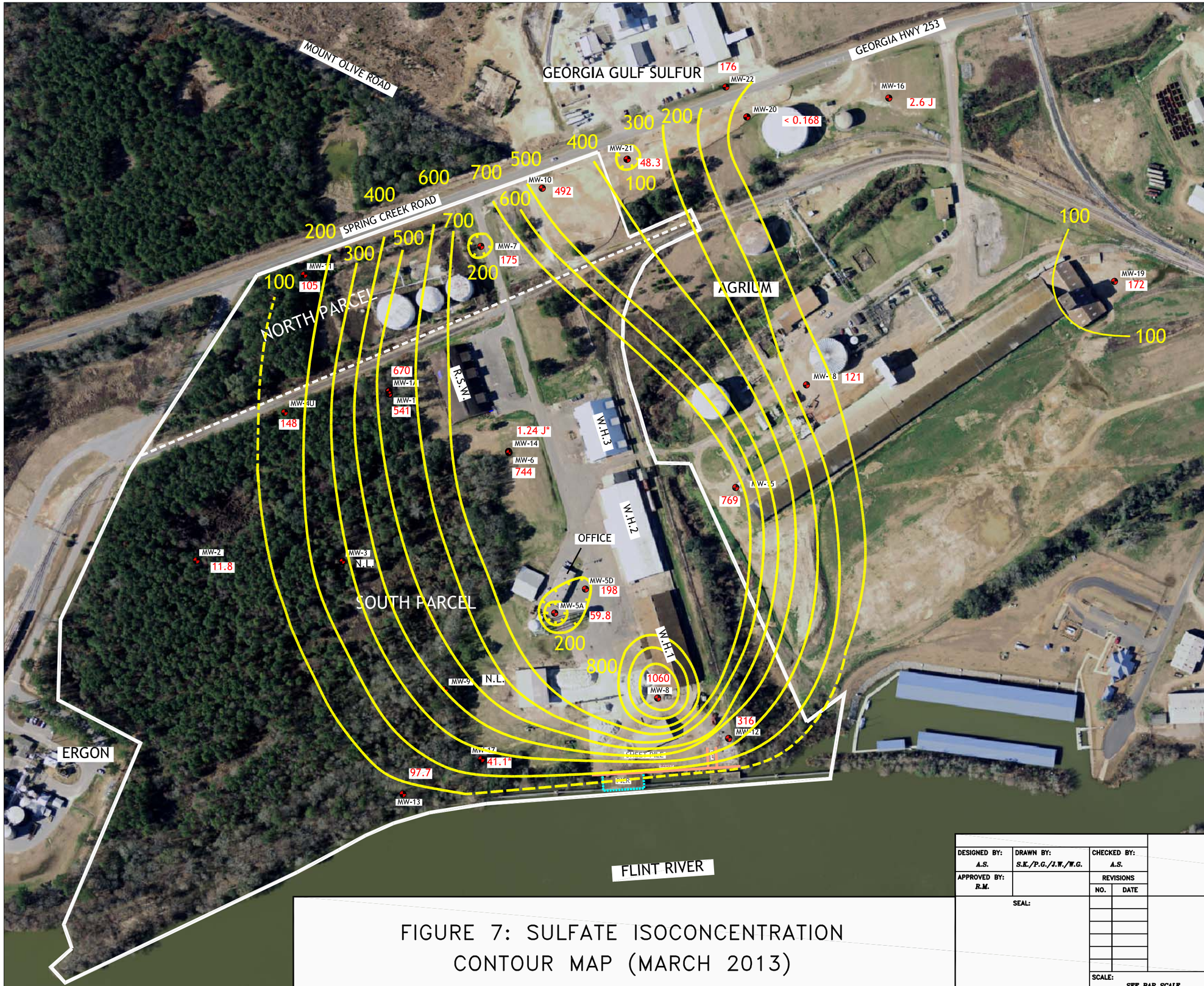
N

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.	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: 9/26/2013	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
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:	DRAWN BY:	CHECKED BY:	GEORGIA PORTS AUTHORITY BAINBRIDGE TERMINAL Bainbridge, Georgia
A.S.	S.K./P.G./J.W./W.G.	A.S.	
APPROVED BY: R.M.		REVISIONS NO. / DATE	
SEAL:			ENVIRONMENTAL INTERNATIONAL CORP. 161 KIMBALL BRIDGE ROAD ALPHARETTA, GEORGIA 30009
SCALE: SEE BAR SCALE	DATE: 9/26/2013	FILE: 400007 – 4.5 – GPA BAINBRIDGE	SHEET NO.:

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 clouds, 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.

Measured from high side (Marked on well with black marker)

from GS Depth = 23

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/7056A/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.)
7:54	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	"

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

(2160 mL)

	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.

ENVIRONMENTAL INTERNATIONAL CORPORATION

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.~~ → Measured from high side (towards railroad) 22.86 Below Ground Surface

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/7058A/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.)
9:23	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 Koundepudi

* 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.)	~~35.95~~ → 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 cap in good condition.

Note: Few air bubbles in tubing during purging.

ENVIRONMENTAL INTERNATIONAL CORPORATION

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.~~

Gauging from high point (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 U53 SERIAL NO:

ANALYTICAL PARAMETERS: 8081B/9060A/6010C/9056A/RSK175 | LABORATORY PERFORMING ANALYSIS: Xenco

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]~~ 2.45 to the concrete pad. Dist b/n top of pad & G.S = 0.4'
Well cap & casing in good condition

ENVIRONMENTAL INTERNATIONAL CORPORATION

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 point is black mark on west side of casing.

PURGING DEVICE: Pegasus Aleris 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	"

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	13.39
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.

ENVIRONMENTAL INTERNATIONAL CORPORATION

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. Measured from N-Side

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

TOTAL WELL DEPTH (BTOC): FT. | WATER LEVEL (BTOC): 17.55 at 8:49 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/8260A/6010C/8056A/R3K-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	0.294	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 w (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.

4400

ENVIRONMENTAL INTERNATIONAL CORPORATION

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/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.)
7:37	0	12.91	8.31	309	7.44	107	4.77	17.08	Slight brown tint with some organic matter/leaf litter/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	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	7.74	234	2.28	3.5	0.91	17.04	
8:17	~~12560~~ 12360	19.39	7.70	237	2.24	3.2	0.88	17.04	

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.)

	Time	Time	Time (2040mL)	Time	Time	Time	Time
2,000 mL volume poured into bucket	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 removed from well casing. Well casing itself is fine. In this condition, surface sands & sediments can go in the well.

ENVIRONMENTAL INTERNATIONAL CORPORATION

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 N side (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: 14:34

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.)	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.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-7

DATE: 3/27/2013 | PROJECT NAME: GPA 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: Pegasus Flexis 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
7:57	1200	17.77	5.05	366	0.380	35.5	2.47	18.44	silty. No odor. Few
8:02	2460	18.46	4.78	400	0.391	28.2	2.06	18.44	air bubbles in tubing
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.

	Time (2060mL)	Time (2300mL)	Time (2060mL)	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 are intact. Well casing in good condition. Well cap was loose.

130° 36°

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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/ | 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 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.)	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.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW10

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 toward to 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-22 SERIAL NO:

ANALYTICAL PARAMETERS: 8081B/9010A/10/1C/7058A/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
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: Shobha Kondeneedi

* 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.

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-11

DATE: 3/28/13 | PROJECT NAME: GPA Baiabridge | PROJECT NO: 100007

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. → Measured from direction towards the road

PURGING DEVICE: Pegasus Alexin 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/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.)
12:27	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

ENVIRONMENTAL INTERNATIONAL CORPORATION

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-12

DATE: 3/26/13 | PROJECT NAME: GPA Baiabridge | PROJECT NO: 400007

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 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/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.)
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: Shobha 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.)	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	10:21	10:32					

Additional remarks:

ENVIRONMENTAL INTERNATIONAL CORPORATION

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/8015B/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 → Clear few solids, bubbles in begin
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	

COMMENTS ON WELL RECOVERY/OTHER:

SAMPLE COLLECTION TIME: 16:24

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.

* 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 1/2 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, few 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/8010C/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, Slight brown tint → Some organic material 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	24.41	
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: Shobhana Kondeguedi

* 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.

ENVIRONMENTAL INTERNATIONAL CORPORATION

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/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.)
14:34	0	17.16	5.96	377	7.97	873	2.63	19.17	Leading edge had (quisitivity)
14:39	~~880~~ 780	18.55	5.82	317	8.03	407	1.77	19.17	had dark brown (810 NTU)
14:44	1480	18.96	5.68	301	8.29	166	1.35	19.17	clear water after time)
14:49	2220	19.23	5.61	295	8.48	160	1.13	19.16	Slight pesticide odor.
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	

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: 14 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/1060A/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: Shobha Kondapuri

* 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 dirt 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, few 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/8056A/8082A/6010C/~~E.K.~~ | 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 bubble 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: 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.

* 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: GPA Bainbridge | PROJECT NO: 400007

WEATHER CONDITIONS: Fair, No clouds, 42°F, 5mph 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; 8060A; 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.)	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 air bubble 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: Geotech 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-52 SERIAL NO:

ANALYTICAL PARAMETERS: 8081B/8260B/6010C/10560/125 | 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: 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.

* 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 ~~dirt~~ 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: 600007

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. → Measured from the direction of 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 U53 SERIAL NO:

ANALYTICAL PARAMETERS: 8081B/8060A/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.)
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: Shoilina 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.

(**) 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/8260A/6010C/A0560/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.)
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: 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.

* 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.

(**) Note: Slight sulfur odor in air.

(*) 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)

XENCO Laboratories
Florida Testing Services, LLC

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.
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 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

CASE NARRATIVE

Client Name: Environmental International Corporation
Project Name: GPA Bainbridge

Project ID: *400007*
Work Order Number(s): *459923*

Report Date: *02-APR-13*
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.

Certificate of Analytical Results 459923

XENCO Laboratories
Florida Testing Services, LLC

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

Certificate of Analytical Results 459923

XENCO Laboratories
Florida Testing Services, LLC

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

Certificate of Analytical Results 459923

XENCO Laboratories
Florida Testing Services, LLC

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

Certificate of Analytical Results 459923

XENCO Laboratories
Florida Testing Services, LLC

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

QC Summary 459923

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
☐ Philadephia/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 ☐ Previously done at XENCO **Project ID** 400007
GPA Bainbridge, – Bainbridge, GA

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					
2	MW-18 Duplicate	3/25/13	10:50		W		X	1	125 mL	P	NA										X					
3	MW-19	3/25/13	12:35		W		X	1	125 mL	P	NA										X					
4	MW-15	3/25/13	15:01		W		X	1	125 mL	P	NA										X					
5																										
6																										
7																										
8																										
9																										
10																										

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) A.S. UPS	3/25/2013 16:24	2)	
3)		4) Dano Lugmas	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)

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: 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

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)

XENCO Laboratories
Florida Testing Services, LLC

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

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 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

XENCO Laboratories
Florida Testing Services, LLC

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

XENCO Laboratories
Florida Testing Services, LLC

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

XENCO Laboratories
Florida Testing Services, LLC

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

XENCO Laboratories
Florida Testing Services, LLC

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

QC Summary 460001

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

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 #: 260631 Page 1 of 1

Company-City: EIC – Alpharetta, GA **Phone:** 770-772-2100

Lab Only: WO# 460001

Proj Name-Location ☐ Previously done at XENCO: GPA Bainbridge – Bainbridge, GA **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 Signature: Alan Sanders

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); Sample Clean-ups are pre-approved as needed

Remarks

From: Rcv by: Date Addn:

	Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	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) A.S. Alan Sanders	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.

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)

XENCO Laboratories
Florida Testing Services, LLC

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

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 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

Certificate of Analytical Results 460125

XENCO Laboratories
Florida Testing Services, LLC

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

Certificate of Analytical Results 460125

XENCO Laboratories
Florida Testing Services, LLC

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

Certificate of Analytical Results 460125

XENCO Laboratories
Florida Testing Services, LLC

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

XENCO Laboratories
Florida Testing Services, LLC

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

Certificate of Analytical Results 460125

XENCO Laboratories
Florida Testing Services, LLC

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

XENCO Laboratories
Florida Testing Services, LLC

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

QC Summary 460125

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
☐ Philadephia/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

Lab Only: WO# 460125

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)

Sampler Name Alan Sanders Signature Alan Sanders

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.

From: Rcv by: Date Addn:

	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	
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 Cagmas	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**)

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: 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

Analytical Report 460271

for

Environmental International Corporation

Project Manager: Alan Sanders

GPA Bainbridge

400007

12-APR-13

Collected By: Client

XENCO Laboratories
Florida Testing Services, LLC

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
Client Services Director

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 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

XENCO Laboratories
Florida Testing Services, LLC

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

XENCO Laboratories
Florida Testing Services, LLC

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

XENCO Laboratories
Florida Testing Services, LLC

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

Certificate of Analytical Results 460271

XENCO Laboratories
Florida Testing Services, LLC

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: **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	

Certificate of Analytical Results 460271

XENCO Laboratories
Florida Testing Services, LLC

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

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

Certificate of Analytical Results 460271

XENCO Laboratories
Florida Testing Services, LLC

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

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	

Certificate of Analytical Results 460271

XENCO Laboratories
Florida Testing Services, LLC

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

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

Certificate of Analytical Results 460271

XENCO Laboratories
Florida Testing Services, LLC

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

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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GPA Bainbridge

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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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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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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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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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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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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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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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	

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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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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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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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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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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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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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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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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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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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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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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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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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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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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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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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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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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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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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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	

Certificate of Analytical Results 460271

XENCO Laboratories
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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

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

Certificate of Analytical Results 460271

XENCO Laboratories
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GPA Bainbridge

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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GPA Bainbridge

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

Certificate of Analytical Results 460271

XENCO Laboratories
Florida Testing Services, LLC

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

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	

Certificate of Analytical Results 460271

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge

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

QC Summary 460271

Environmental International Corporation

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	

Environmental International Corporation

GPA Bainbridge

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	

QC Summary 460271

Environmental International Corporation

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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	

QC Summary 460271

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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	

QC Summary 460271

Environmental International Corporation

GPA Bainbridge

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

QC Summary 460271

Environmental International Corporation

GPA Bainbridge

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

QC Summary 460271

Environmental International Corporation

GPA Bainbridge

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

QC Summary 460271

Environmental International Corporation

GPA Bainbridge

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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☐ Philadephia/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	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	Organochlorine Pesticides by EC-8081A	TPC-9060A	Manganese-6010C	Gases: Methane, Ethane, Ethene RSK-175	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)	Sample Clean-ups are pre-approved as needed	Addn:	
1	MW-18	3/25/13	10:32		W		X	6	✓	✓	✓										X	X	X		X							1
2	MW-18 Duplicate	3/25/13	10:50		W		X	6	✓	✓	✓										X	X	X		X							2
3	MW-19	3/25/13	12:35		W		X	6	✓	✓	✓										X	X	X		X							3
4	MW-15	3/25/13	15:01		W		X	6	✓	✓	✓										X	X	X		X							4
5	MW-5D	3/26/13	8:18		W		X	6	✓	✓	✓										X	X	X		X							5
6	MW-5A	3/26/13	9:34		W		X	6	✓	✓	✓										X	X	X		X							6
7	MW-12	3/26/13	10:36		W		X	6	✓	✓	✓										X	X	X		X							7
8	MW-8	3/26/13	11:35		W		X	6	✓	✓	✓										X	X	X		X							8
9	MW-17	3/26/13	13:28		W		X	6	✓	✓	✓										X	X	X		X							9
10	MW-6	3/26/13	14:36		W		X	6	✓	✓	✓										X	X	X		X							10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) Alan Sanders	3/29/13 10:55	2) ML Mc	3/29/13 10:55
3) Mc	3/29/13 11:36	4) Dario Lagmas	3/29/13 11:36
5)		6)	

Total Containers per COC: Cooler Temp: 3.6

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.

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☐ South Carolina 803-543-8099 ☐ Other

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 260628 Page 2 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

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	Organochlorine Pesticides by GC-8081A/3660B	TOC-9060A	Manganese - 6010C	Gases: 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)	Remarks: Sample Clean-ups are pre-approved as needed	Addn: Date Rcv by: From:
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 Hall	3/29 10:55
3) [illegible]	3/29/13 11:36	4) David Cagmar	3/29/13 11:36
5)		6)	

Total Containers per COC: Cooler Temp: 3.2

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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☐ 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 #: 260629 Page 3 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

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	Organochlorine Pesticides by GC-8081B	TPC-9060A	Manganese-6010C	Gasses-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)	Remarks: Sample Clean-ups are pre-approved as needed	Addn: Date Rcv by: From:
1	MW-20-EXTRA	3/27/13	13:50		W		X	1	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	1) Alan Sanders	3/29/13 10:55	2) [illegible]	3/29/13 10:55
2	3) [illegible]	3/29/13 11:36	4) Dario Lagmar	3/29/13 11:36
3	5)		6)	

Total Containers per COC: Cooler Temp: 3.2 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

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
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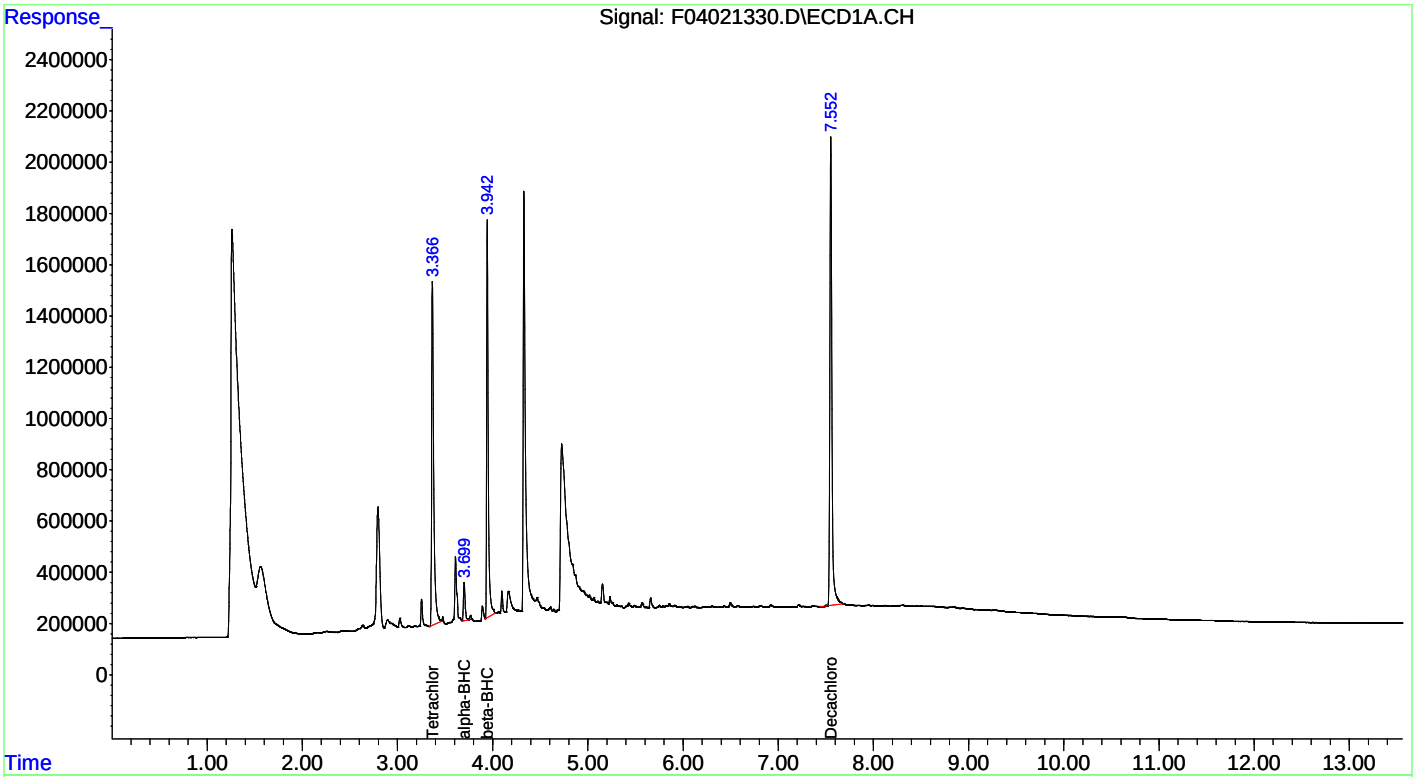
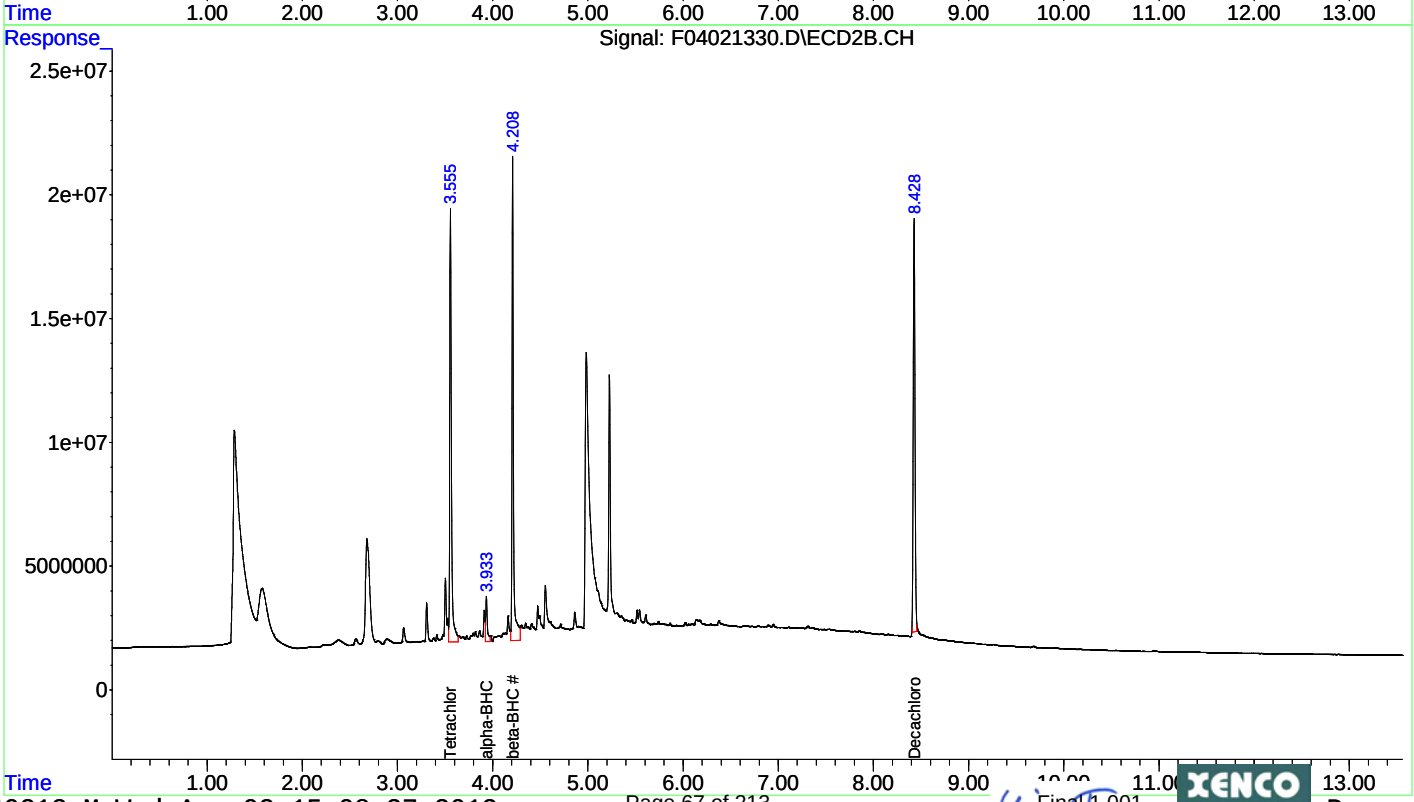
Operator : NT
Sample : 460271-001
Misc :
ALS Vial : 30 Sample Multiplier: 1

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

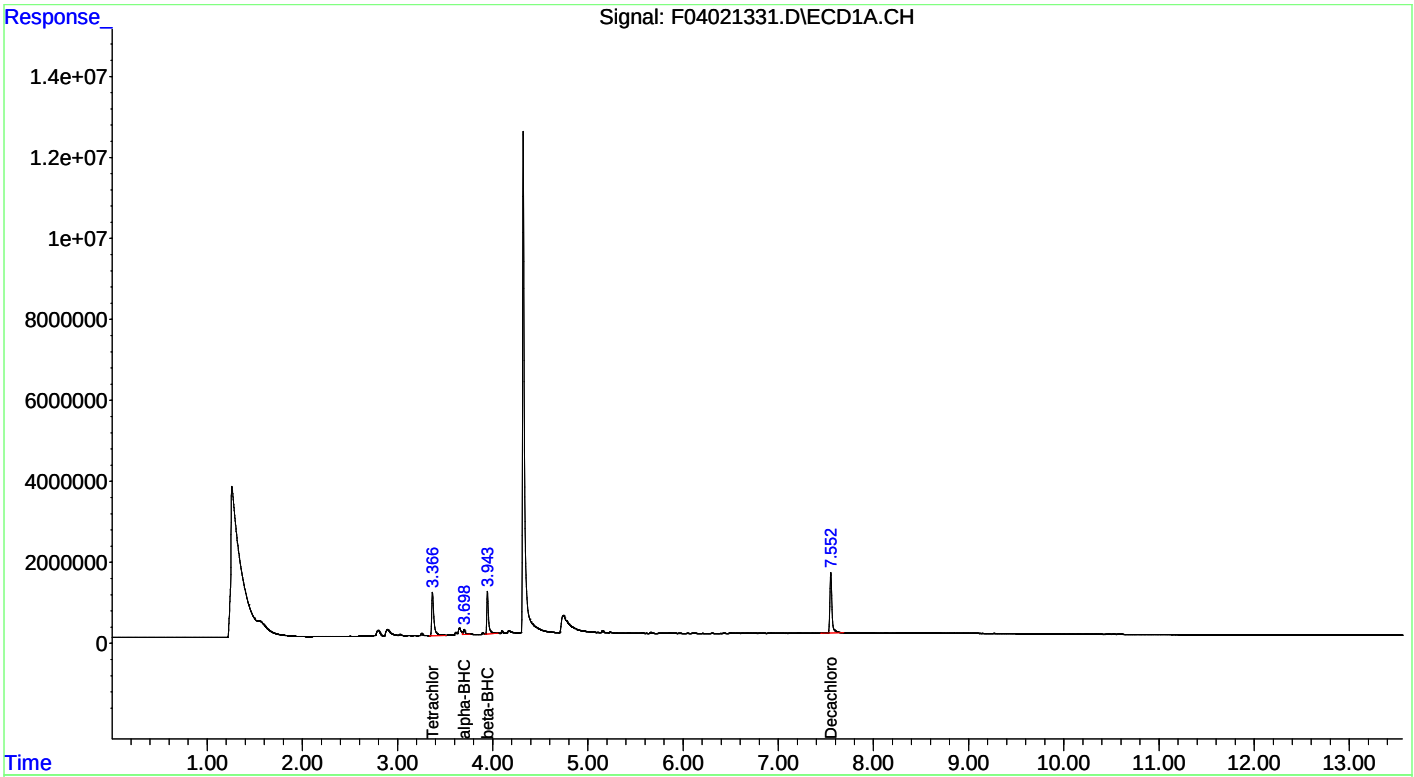
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

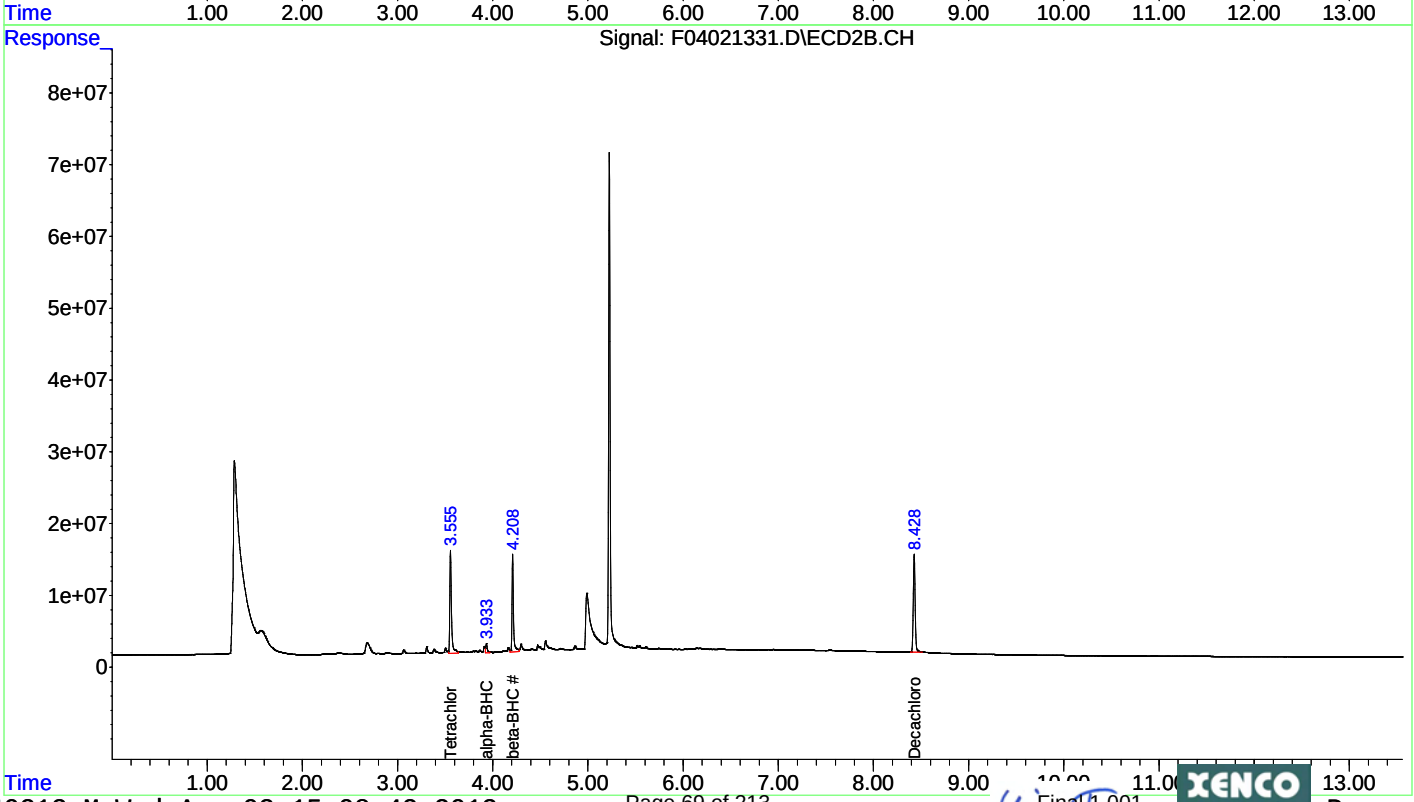
Quantitation Report (Not Reviewed)

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

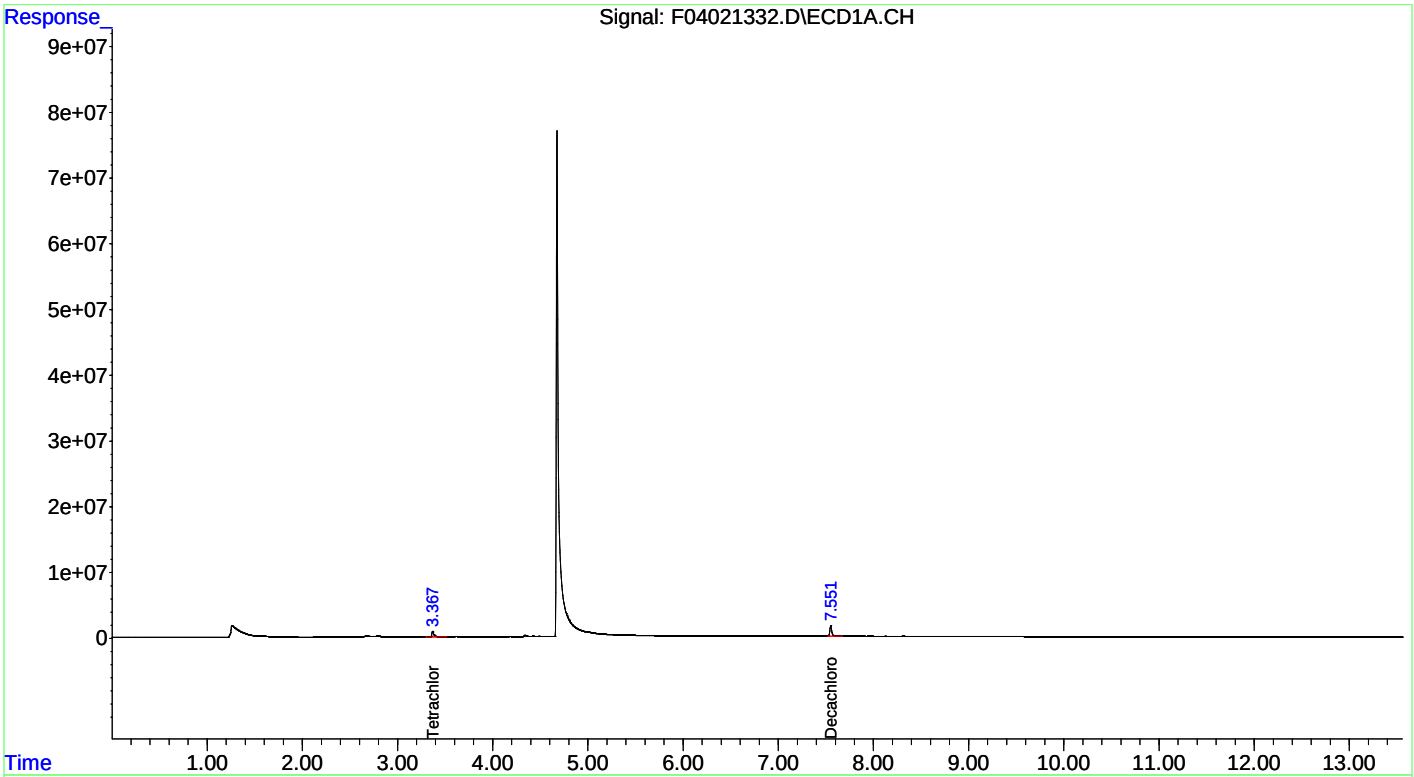
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

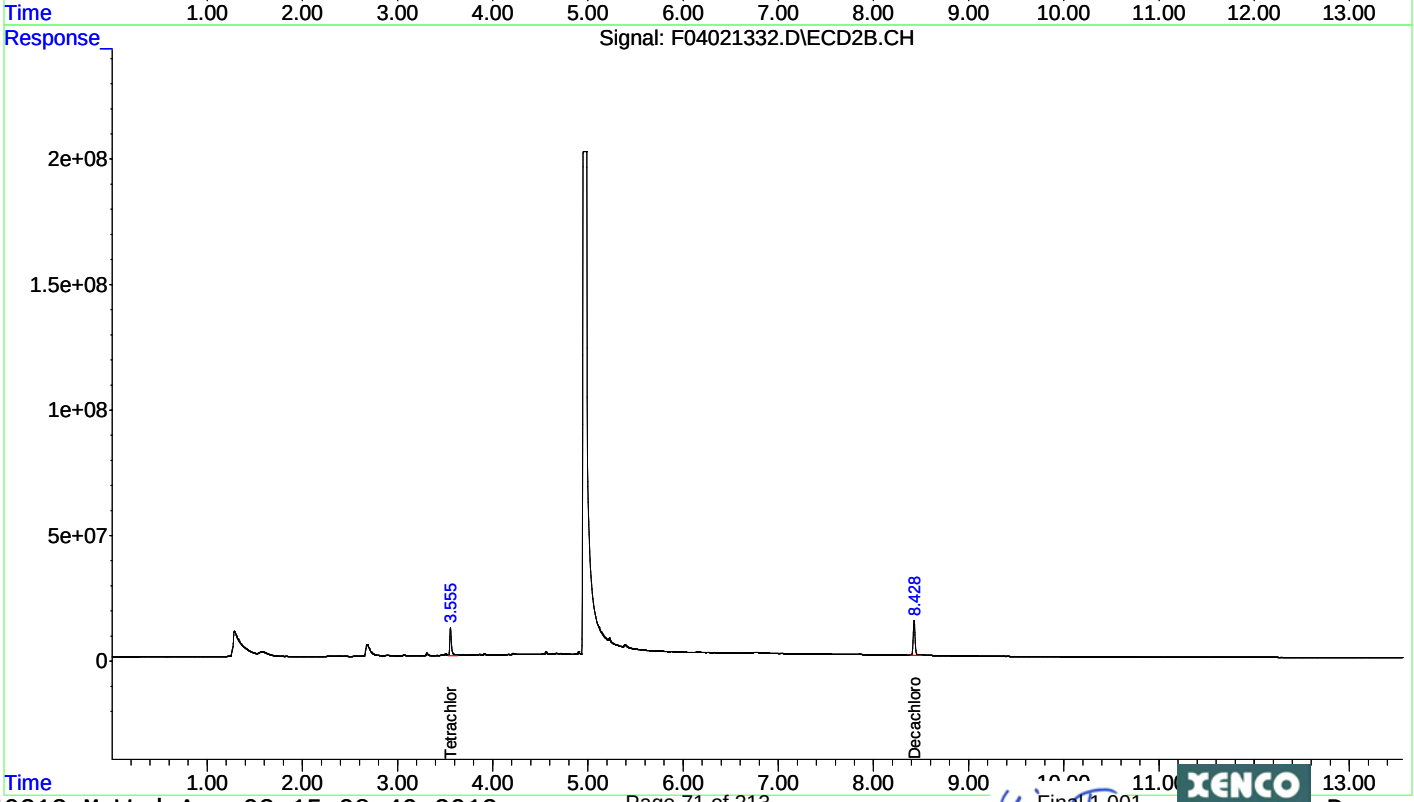
Quantitation Report (Not Reviewed)

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

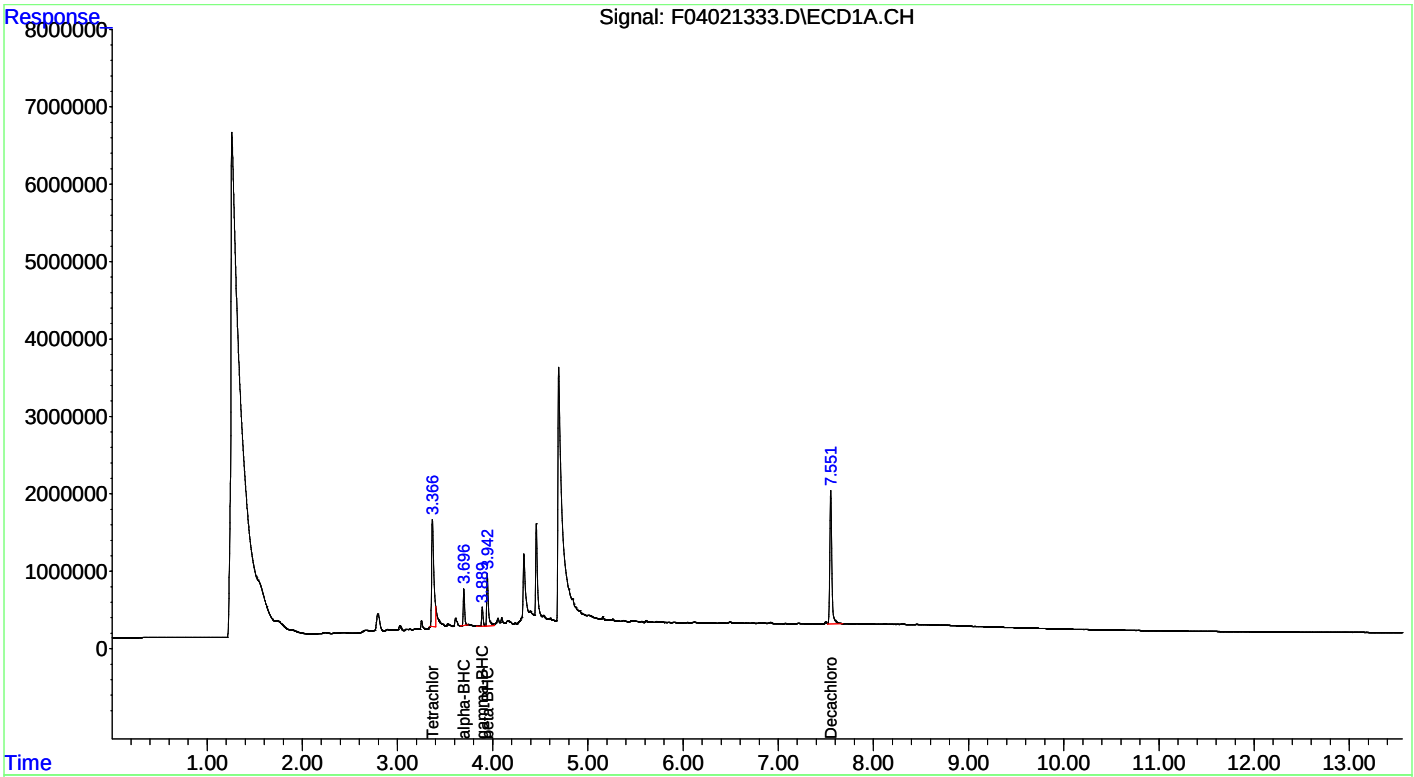
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

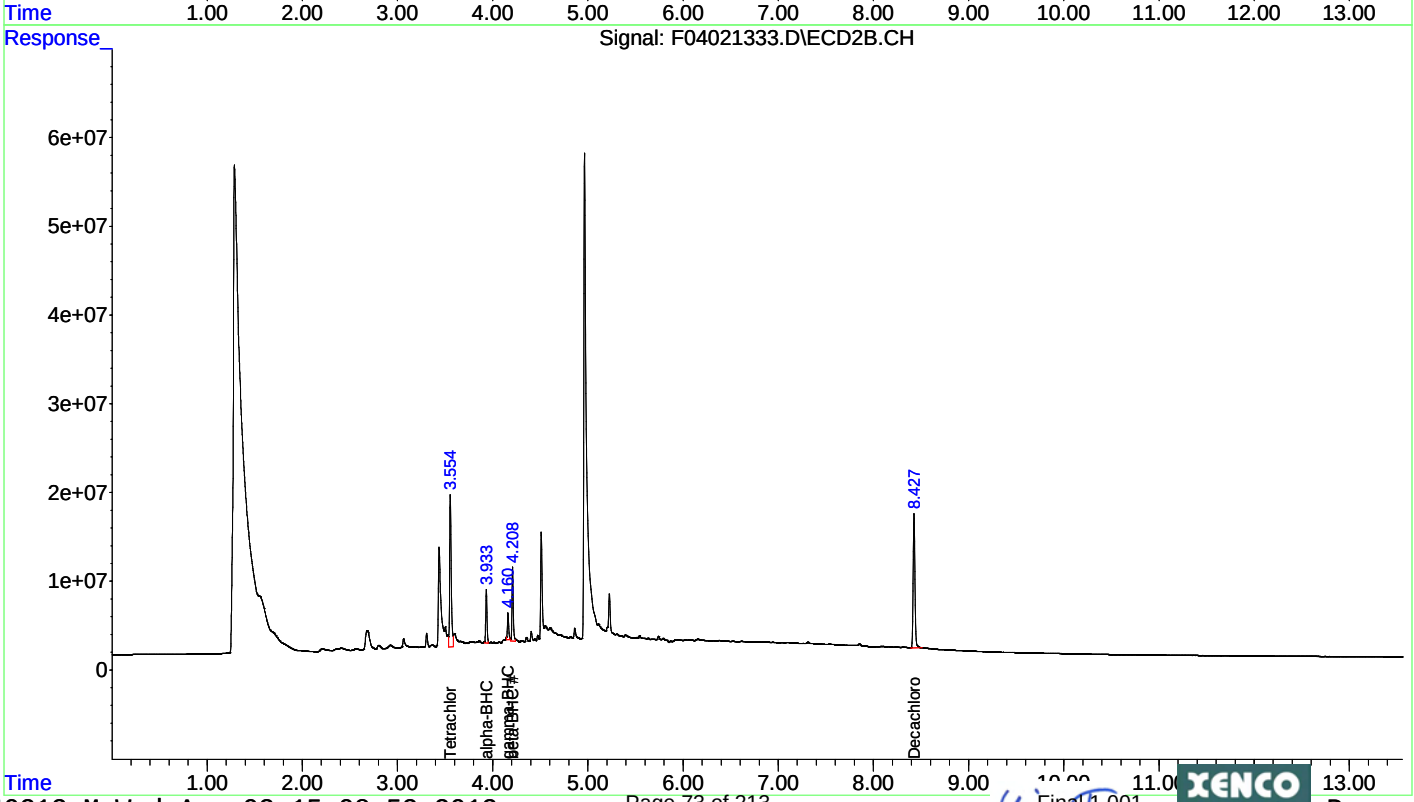
Quantitation Report (Not Reviewed)

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

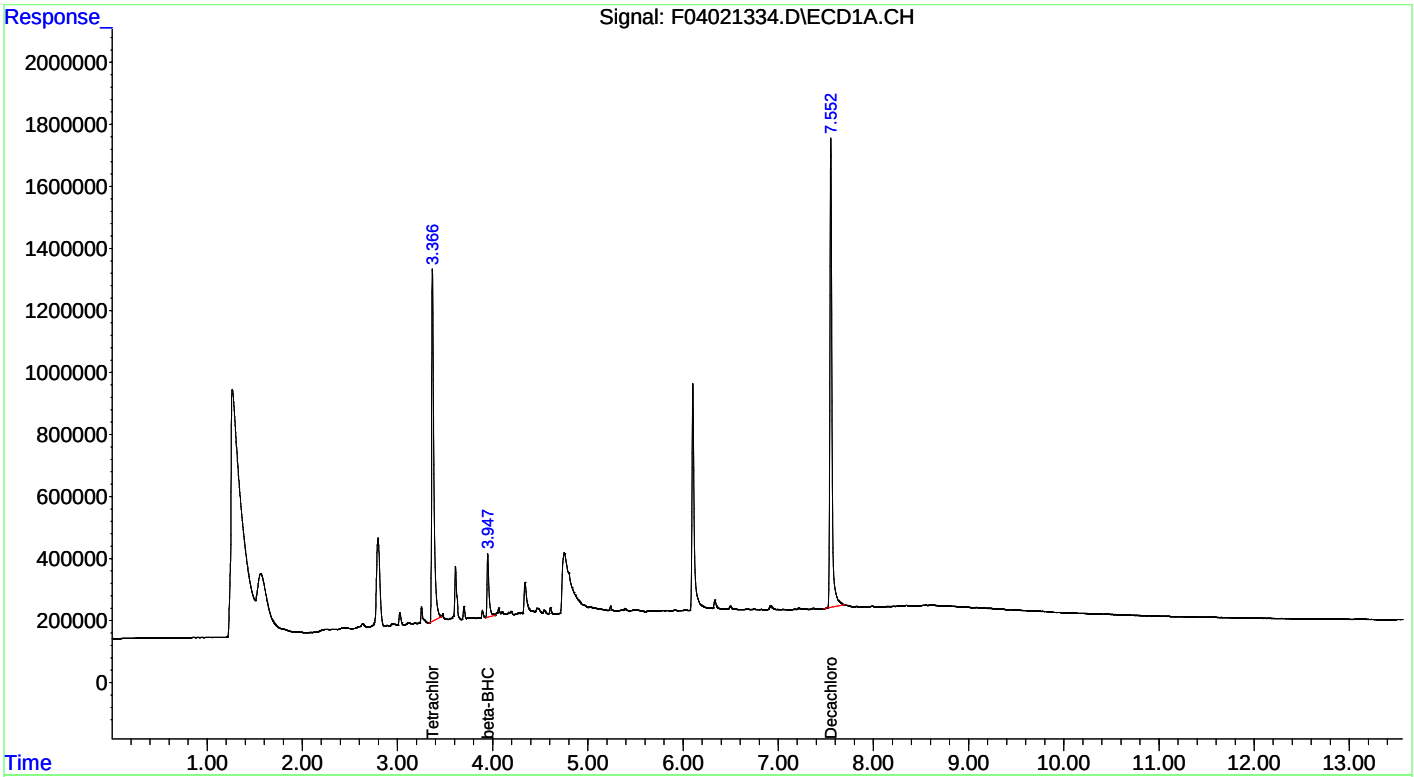
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

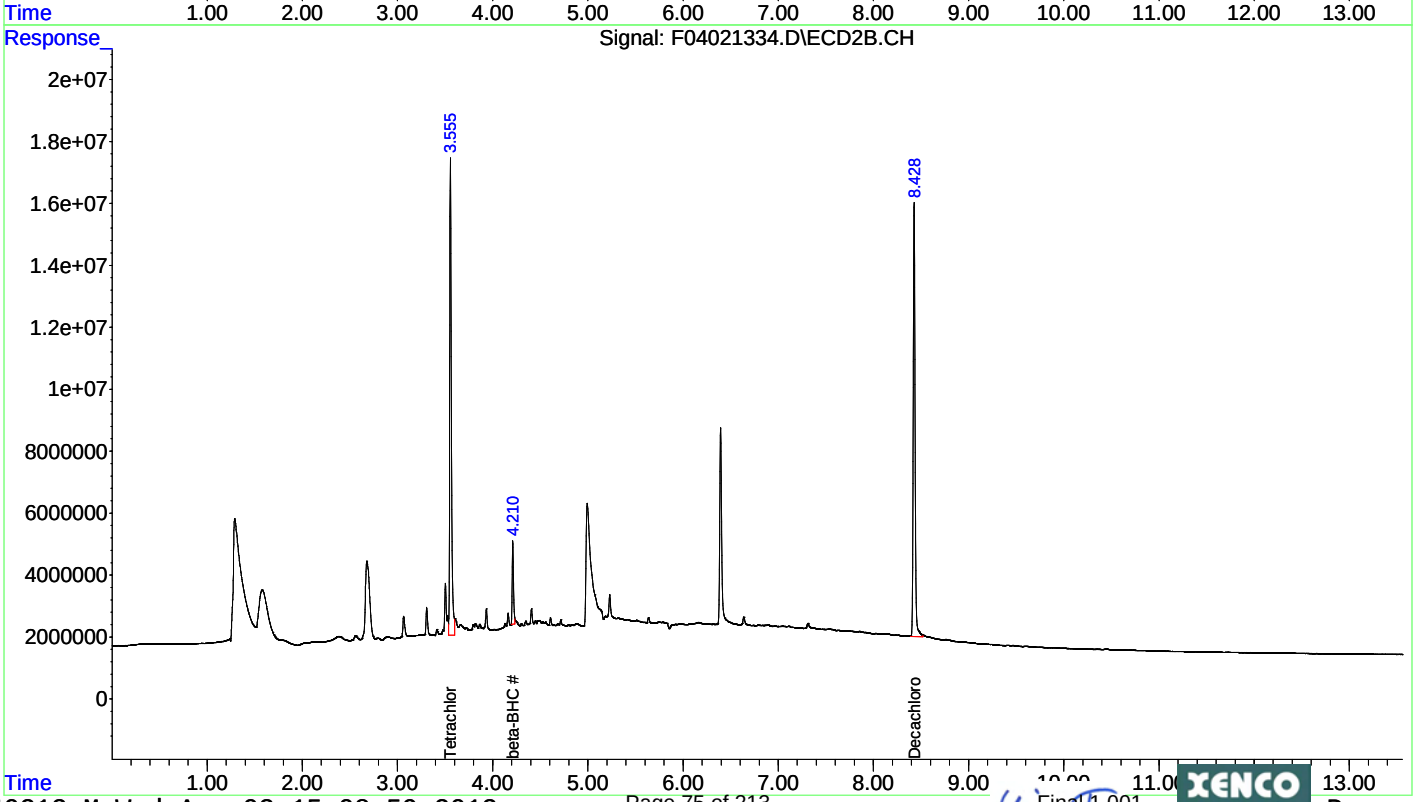
Quantitation Report (Not Reviewed)

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

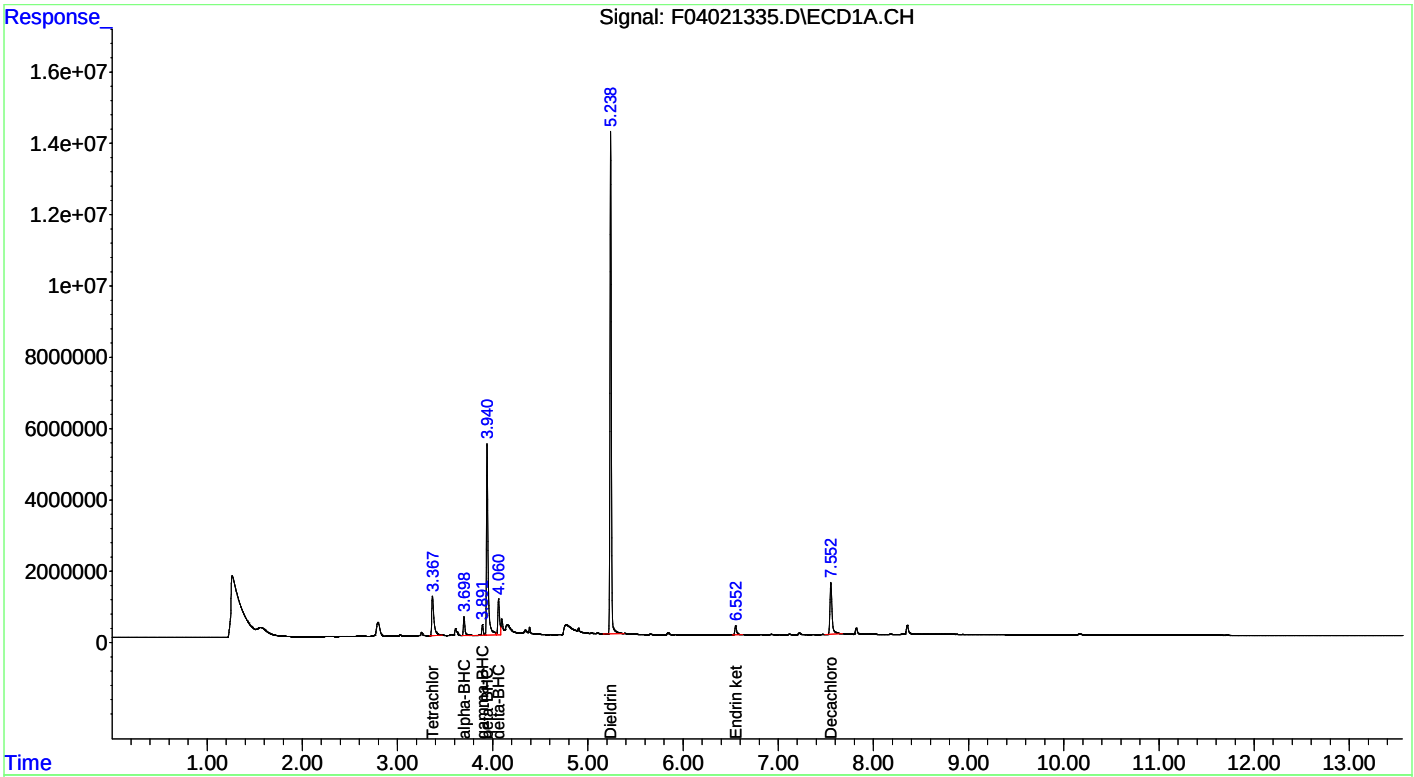
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

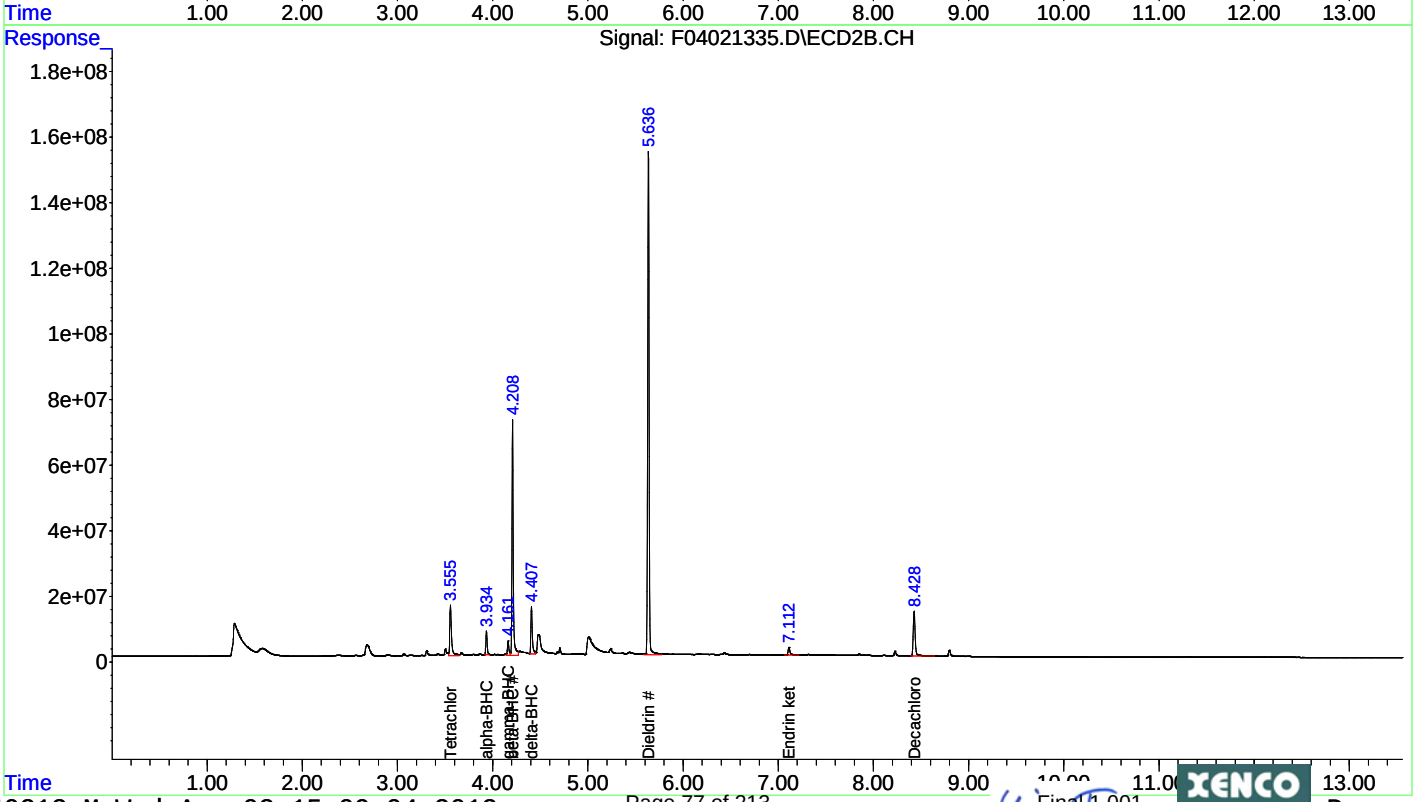
Quantitation Report (Not Reviewed)

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

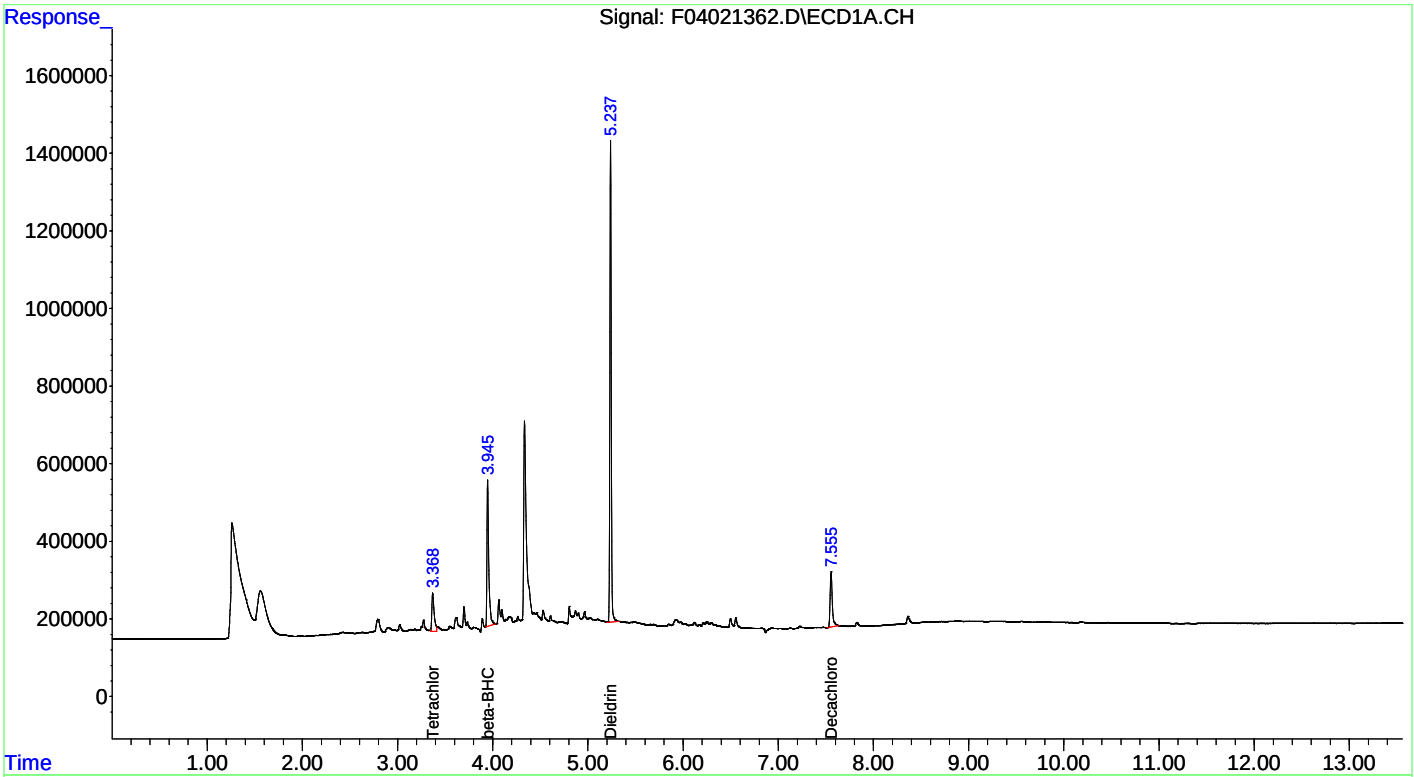
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

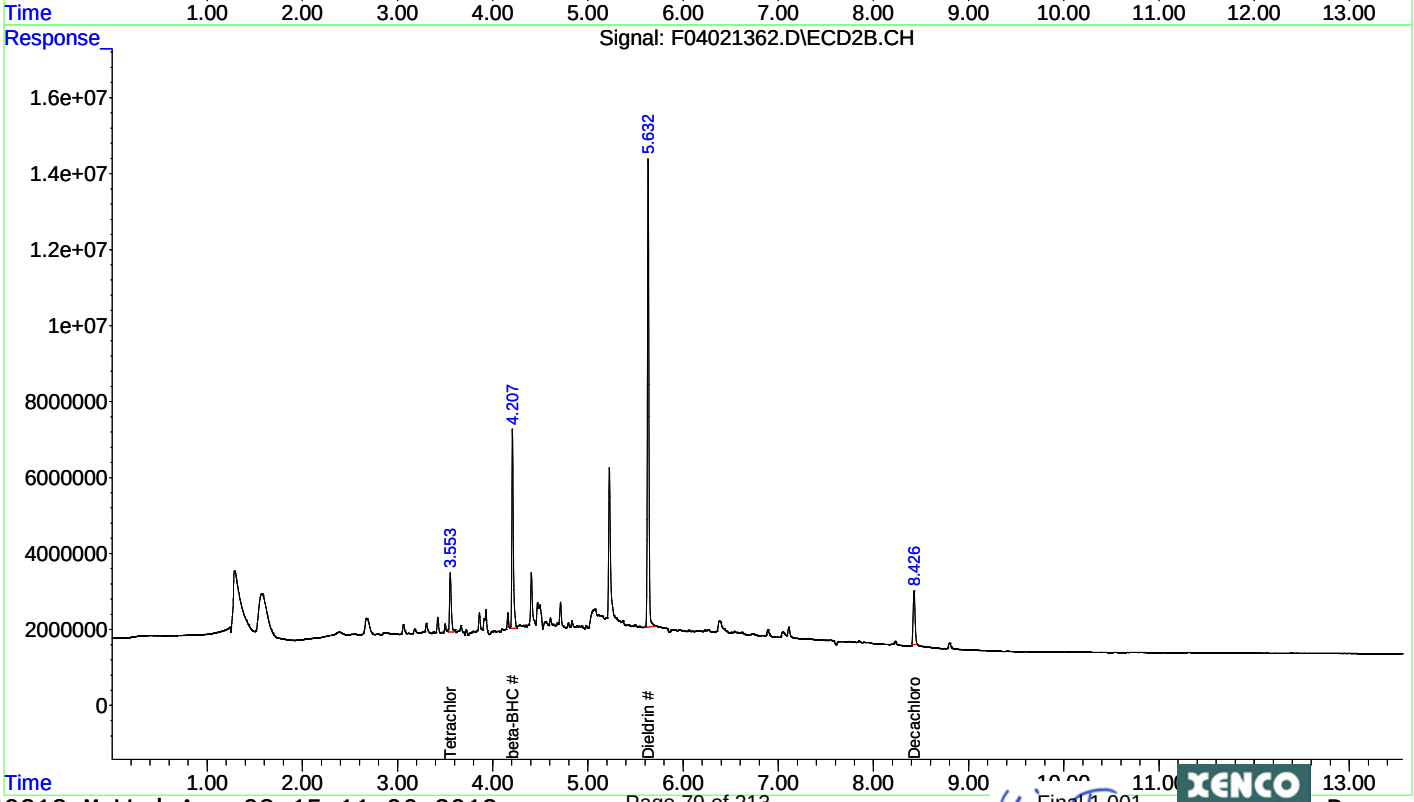
Quantitation Report (Not Reviewed)

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)

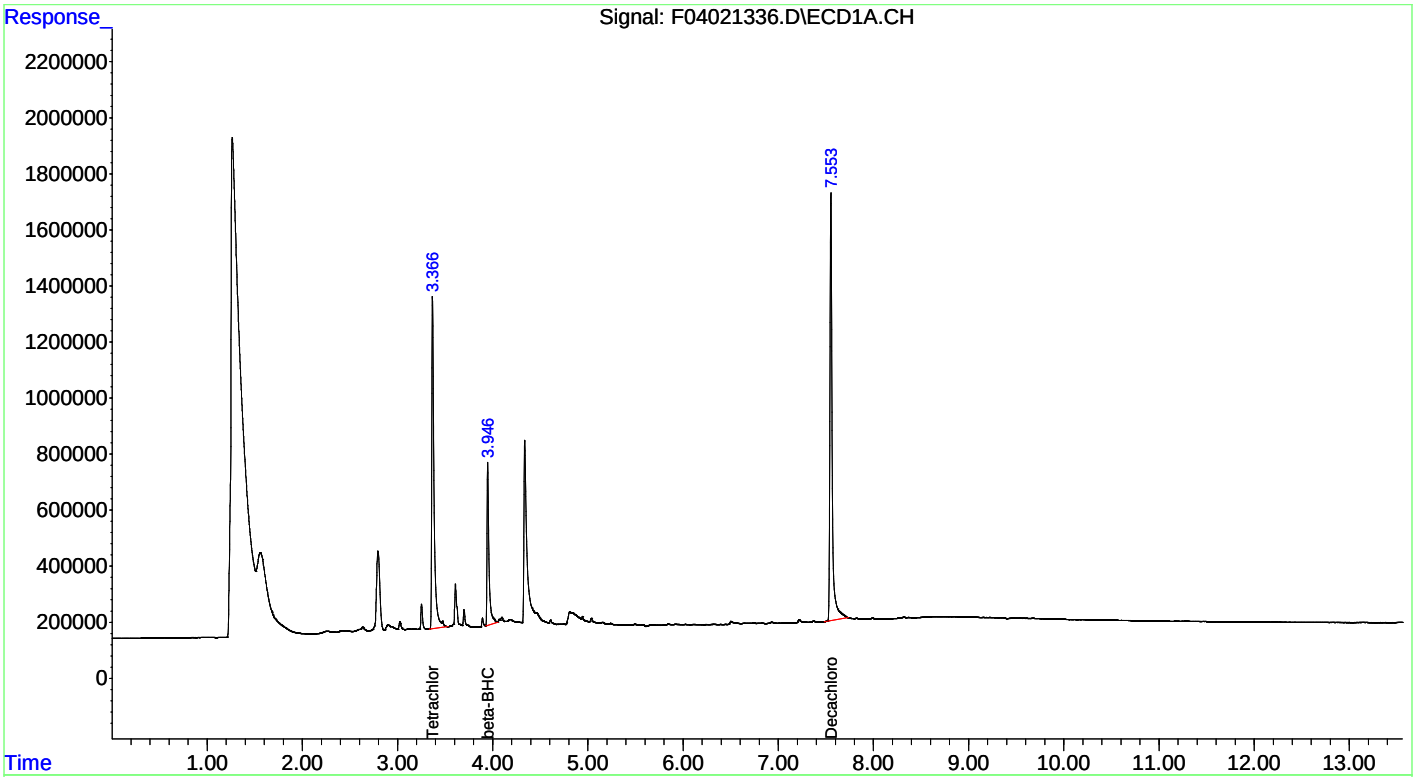
```
Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021336.D
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 03 Apr 2013   4:23
Operator  : NT
Sample    : 460271-007
Misc      :
ALS Vial  : 36   Sample Multiplier: 1

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.
```

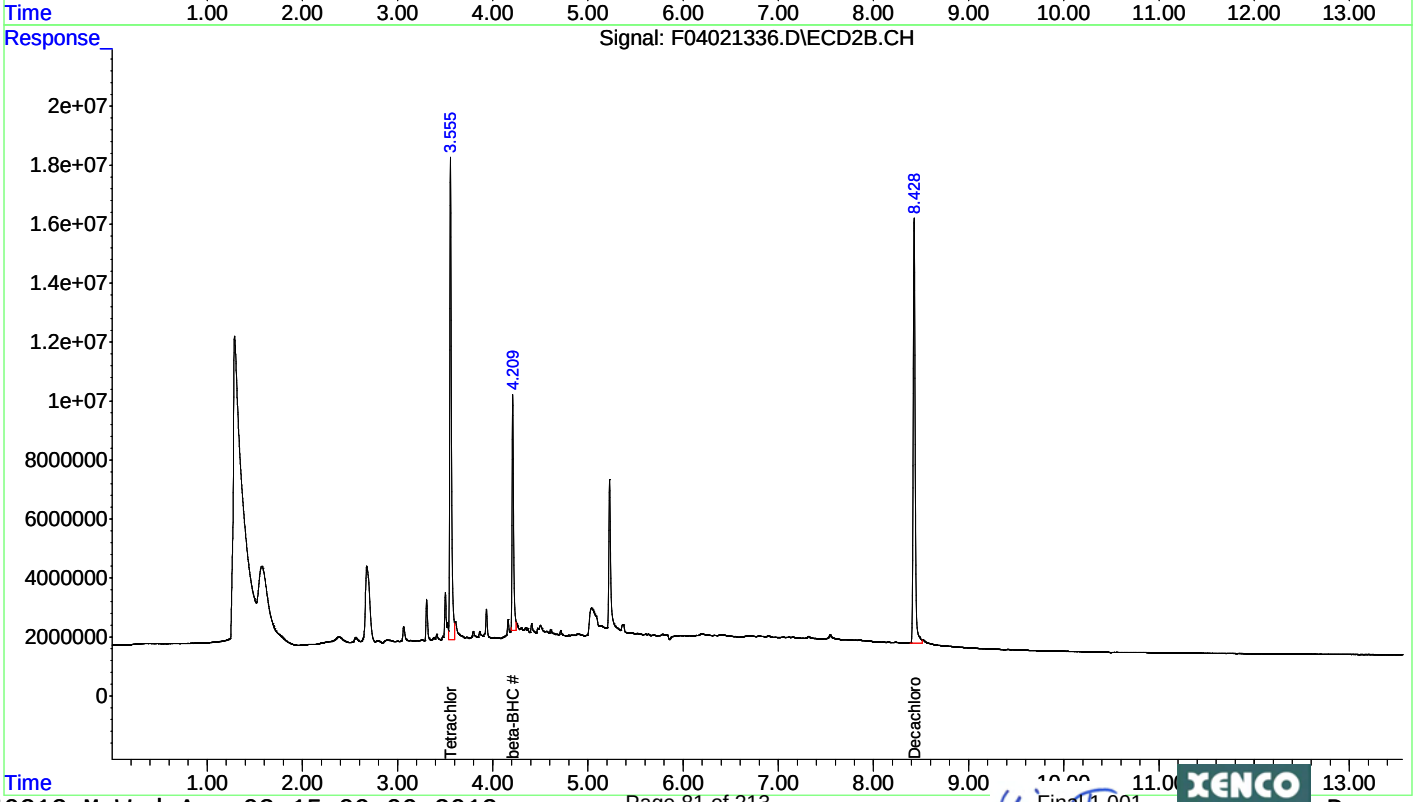
Quantitation Report (Not Reviewed)

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

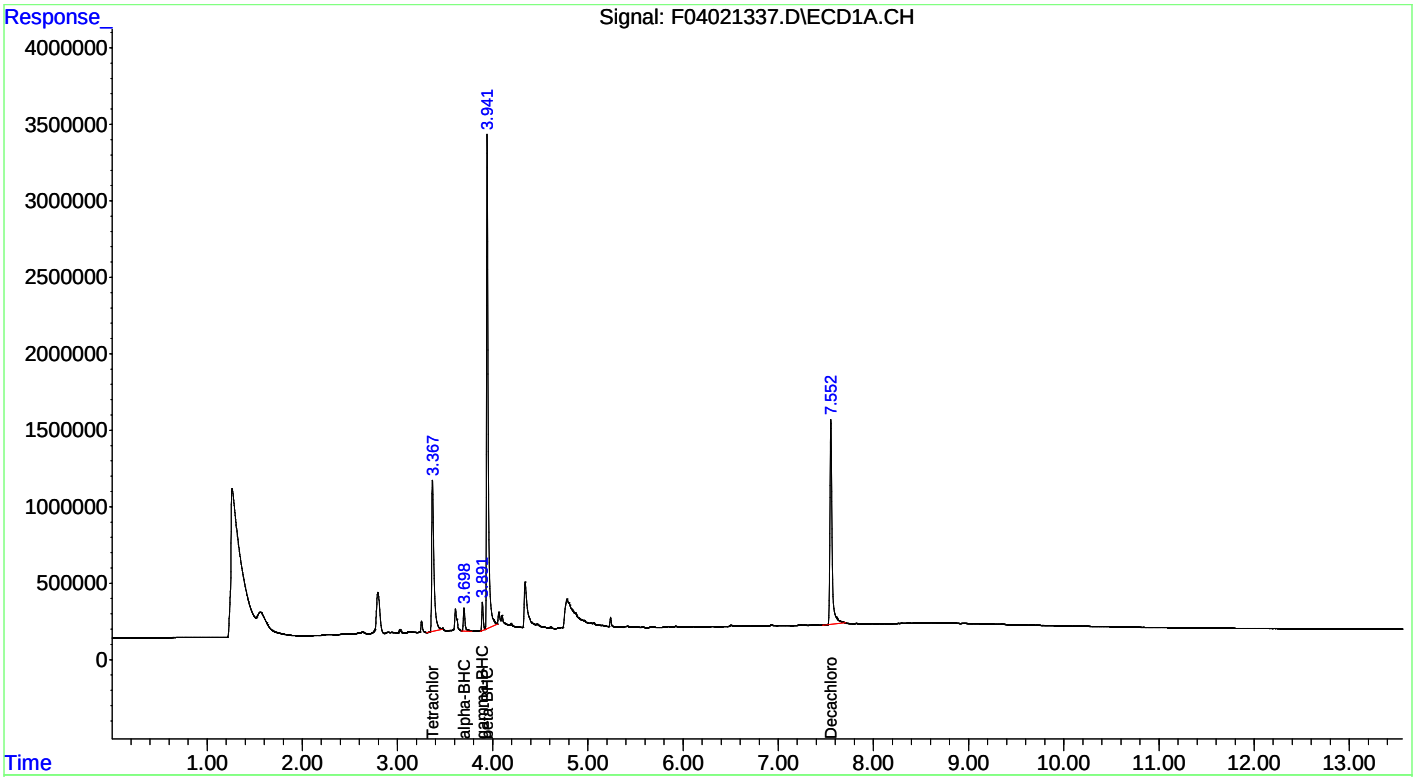
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

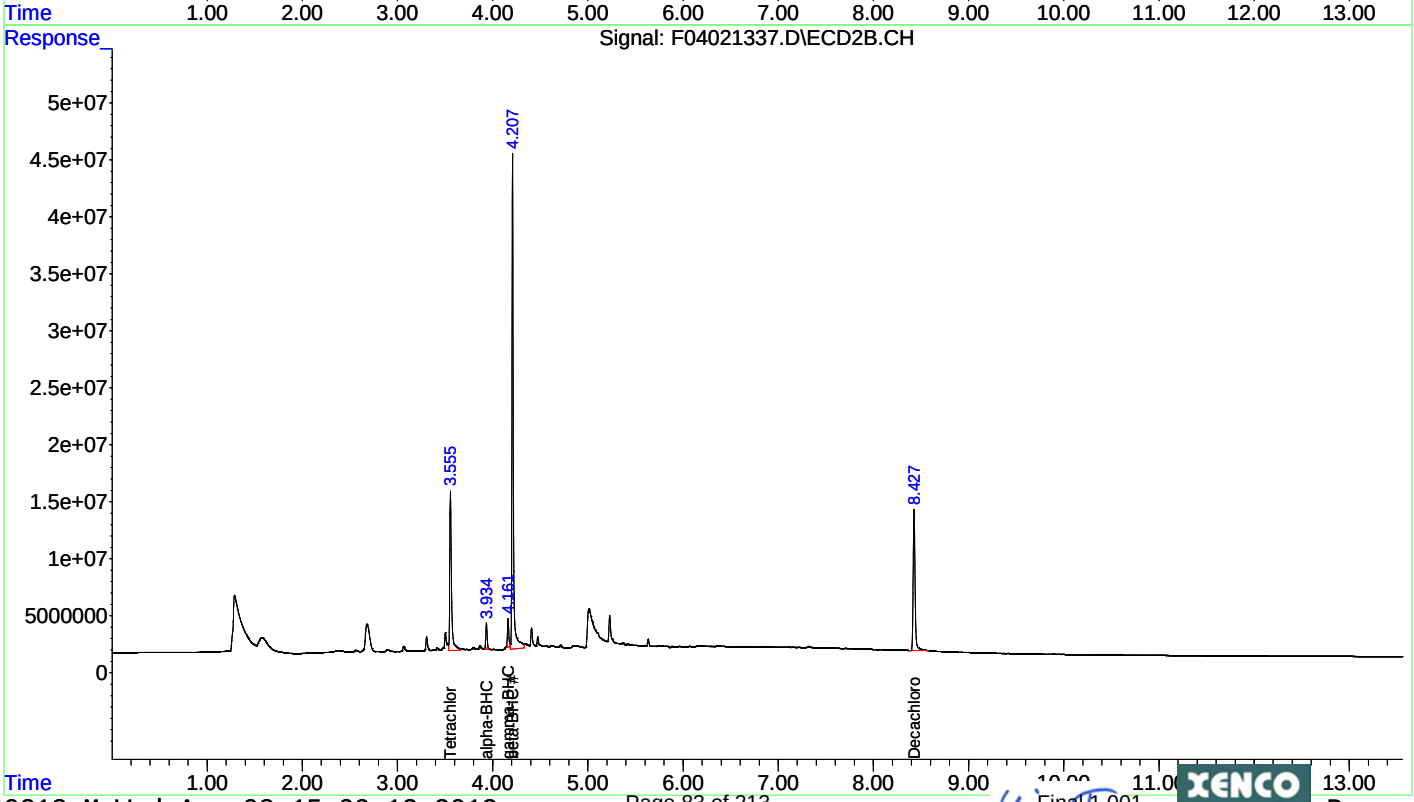
Quantitation Report (Not Reviewed)

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

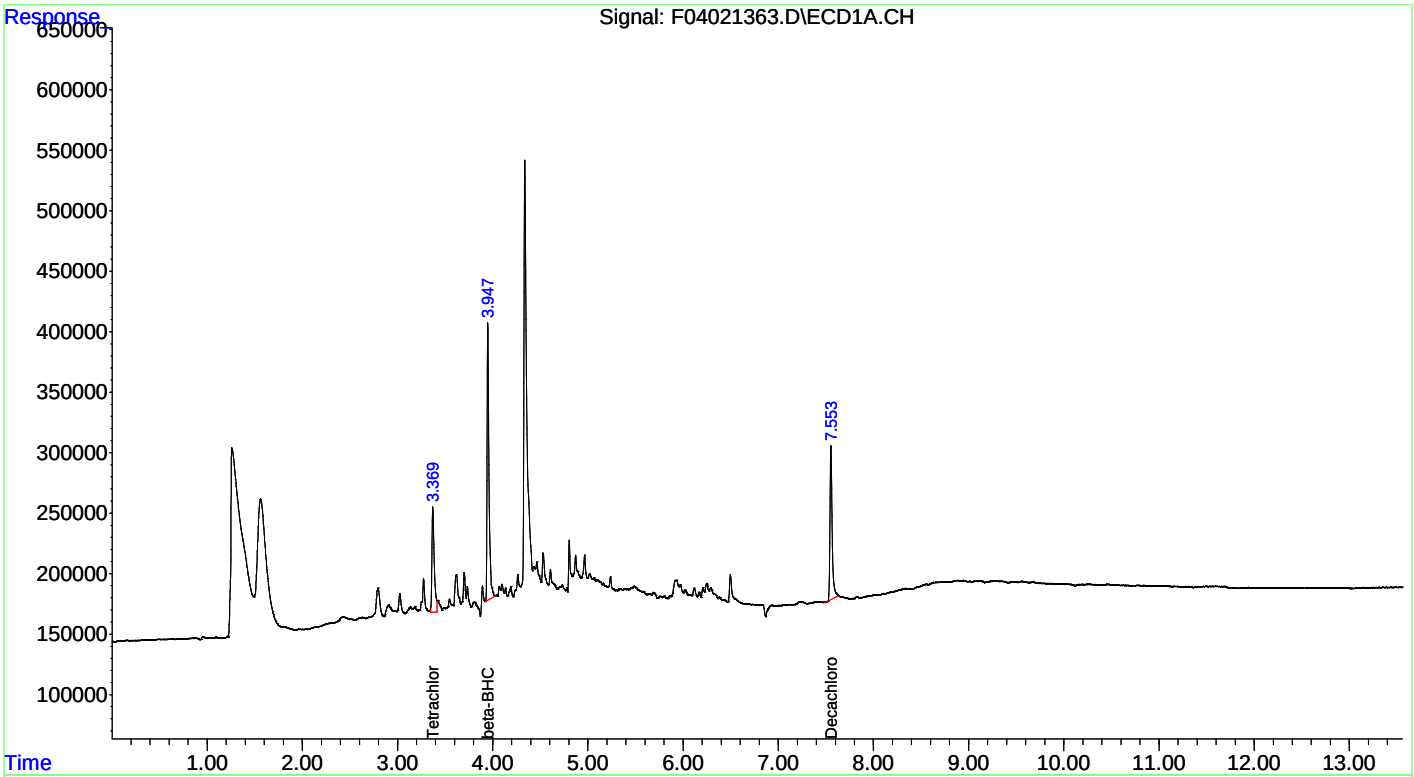
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

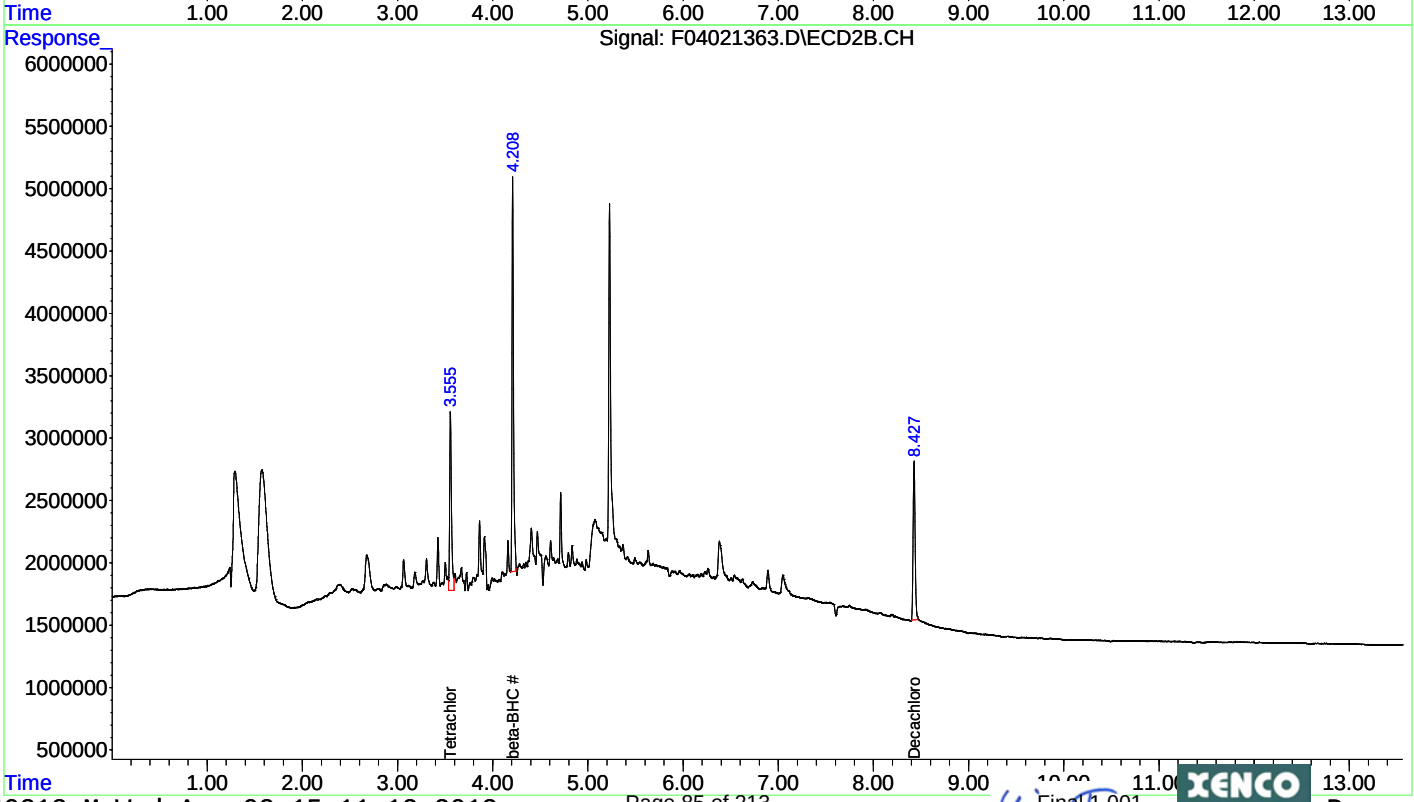
Quantitation Report (Not Reviewed)

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)

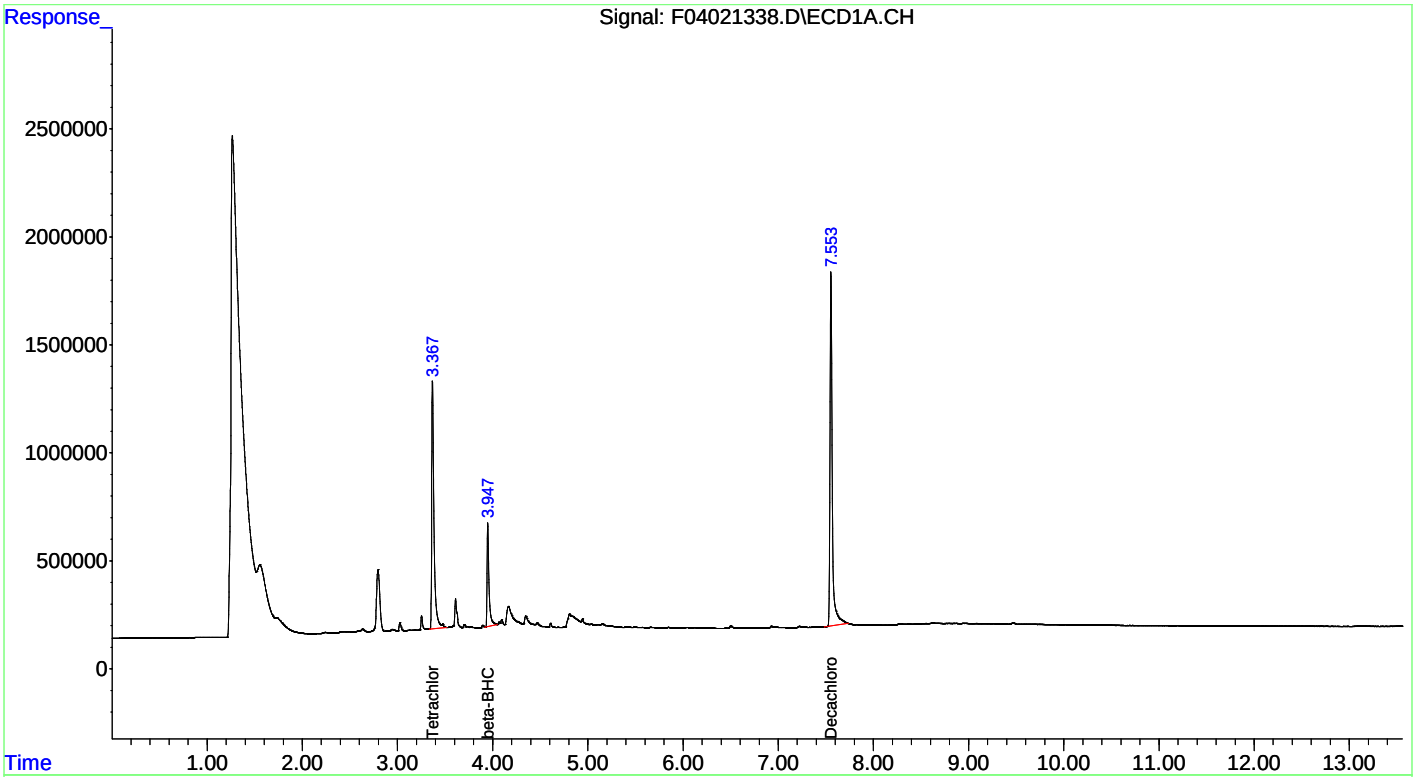
```
Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021338.D
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 03 Apr 2013   4:58
Operator  : NT
Sample    : 460271-009
Misc      :
ALS Vial  : 38   Sample Multiplier: 1

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.
```

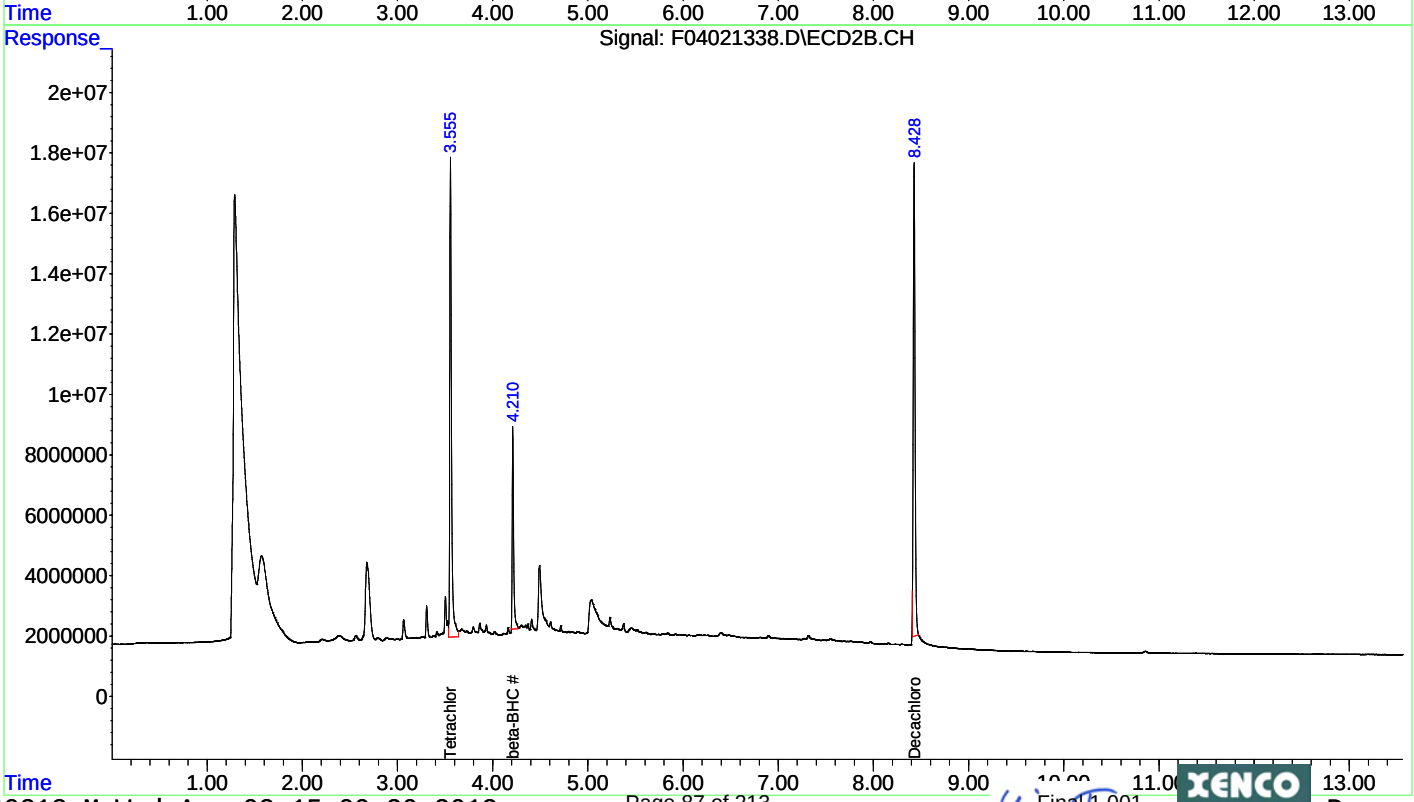
Quantitation Report (Not Reviewed)

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)

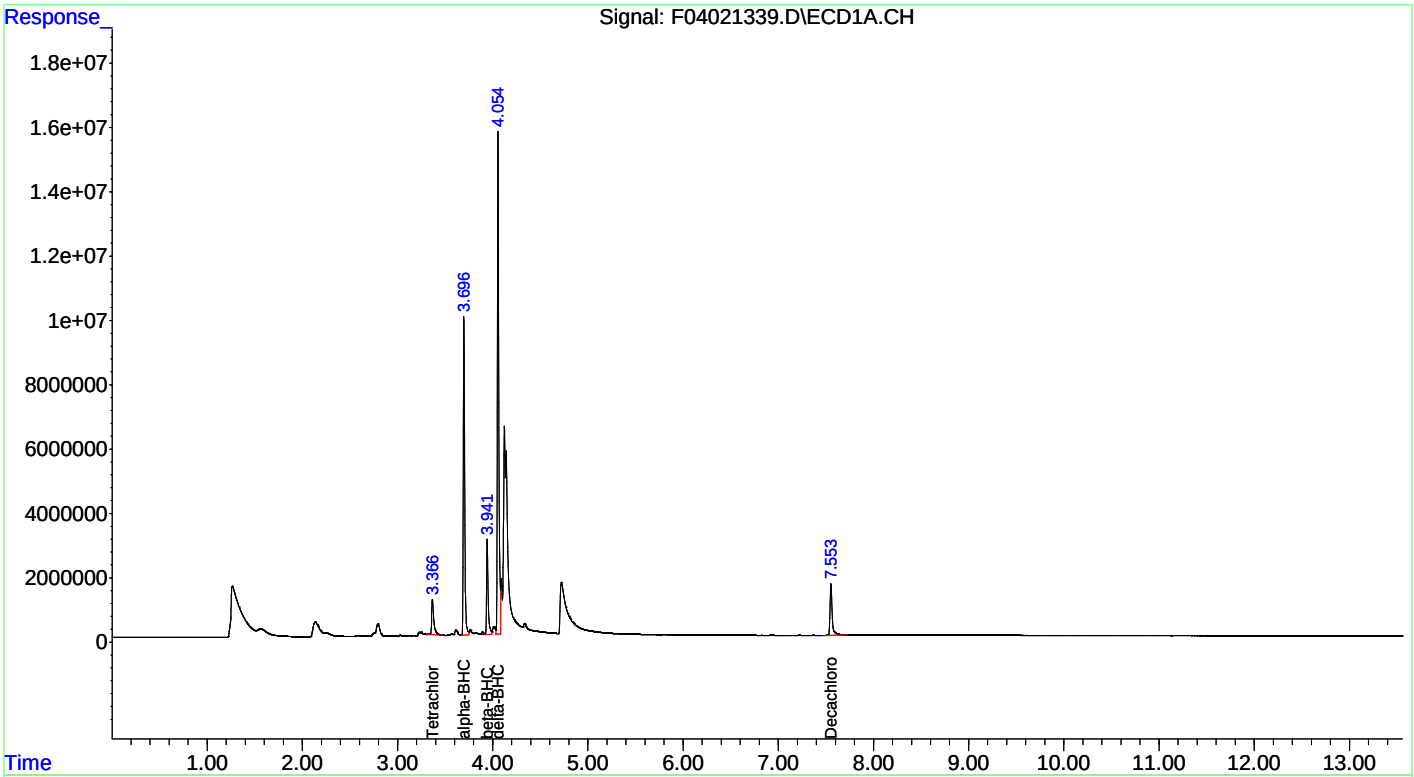
```
Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021339.D
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 03 Apr 2013   5:15
Operator  : NT
Sample    : 460271-010
Misc      :
ALS Vial  : 39   Sample Multiplier: 1

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.
```

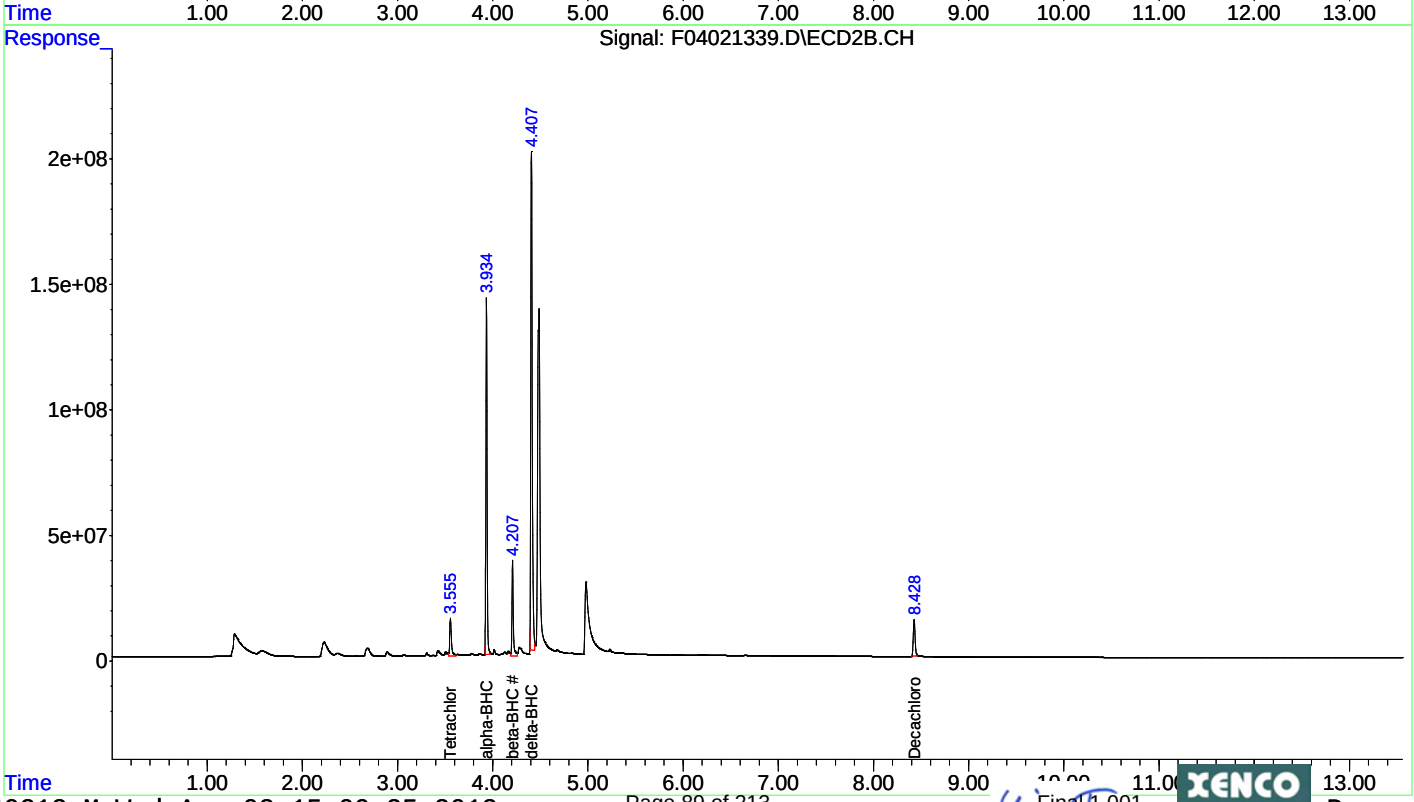
Quantitation Report (Not Reviewed)

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

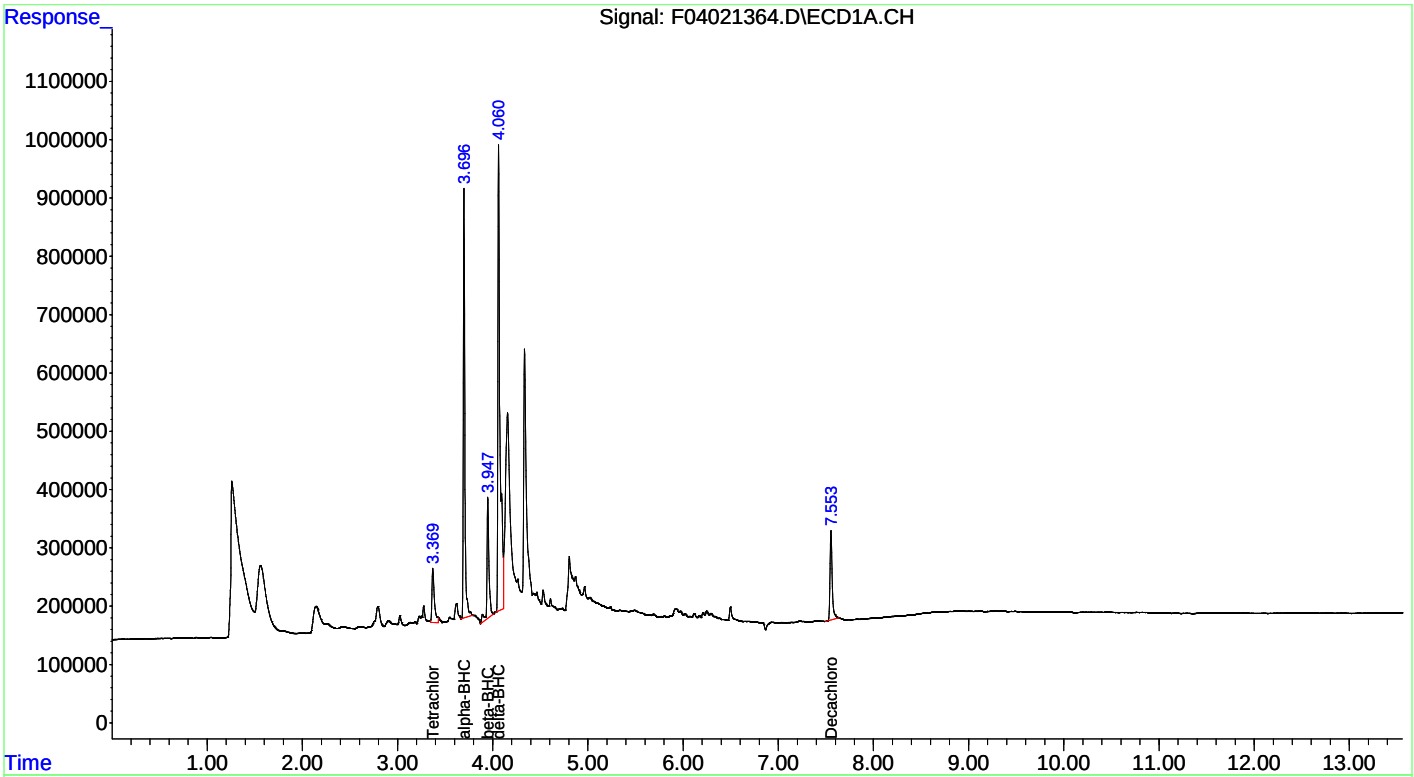
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

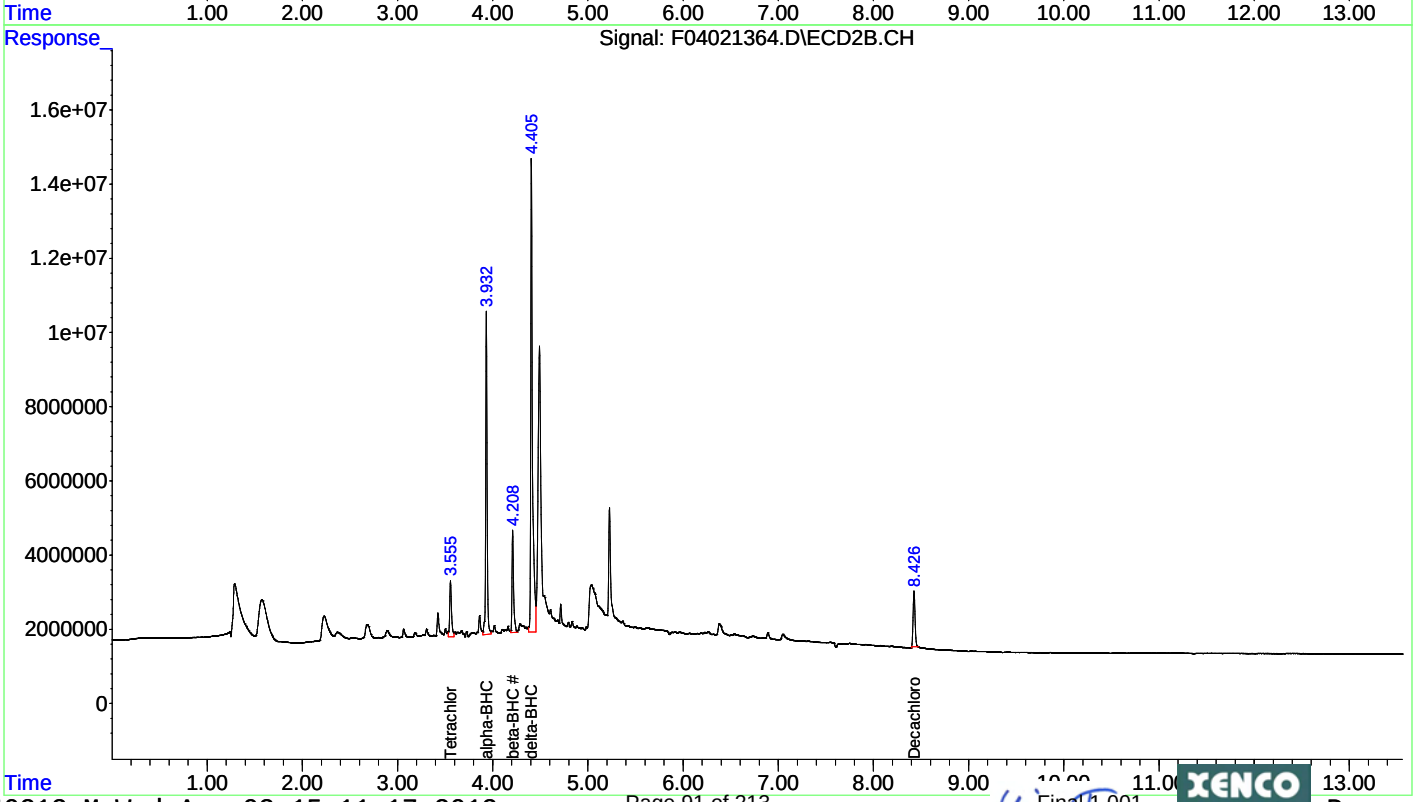
Quantitation Report (Not Reviewed)

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

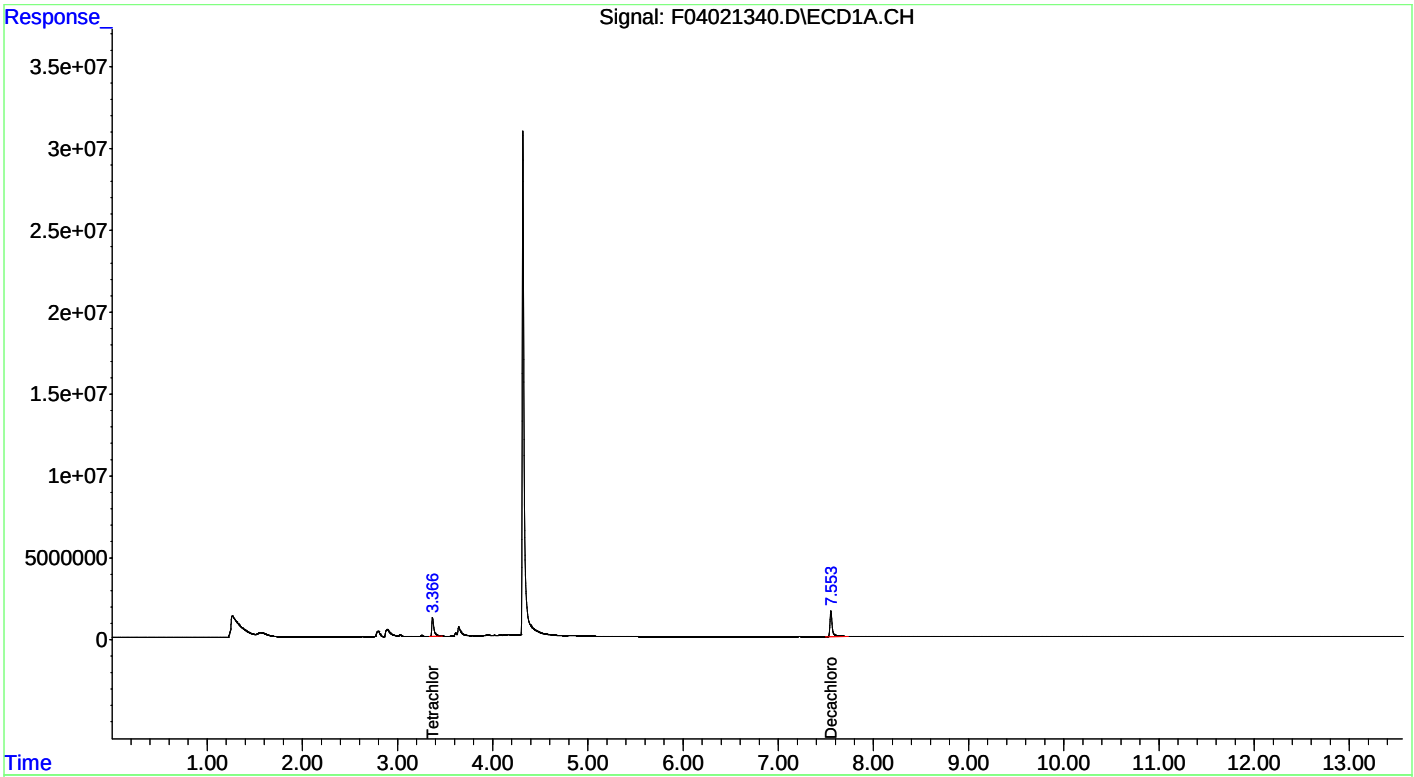
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

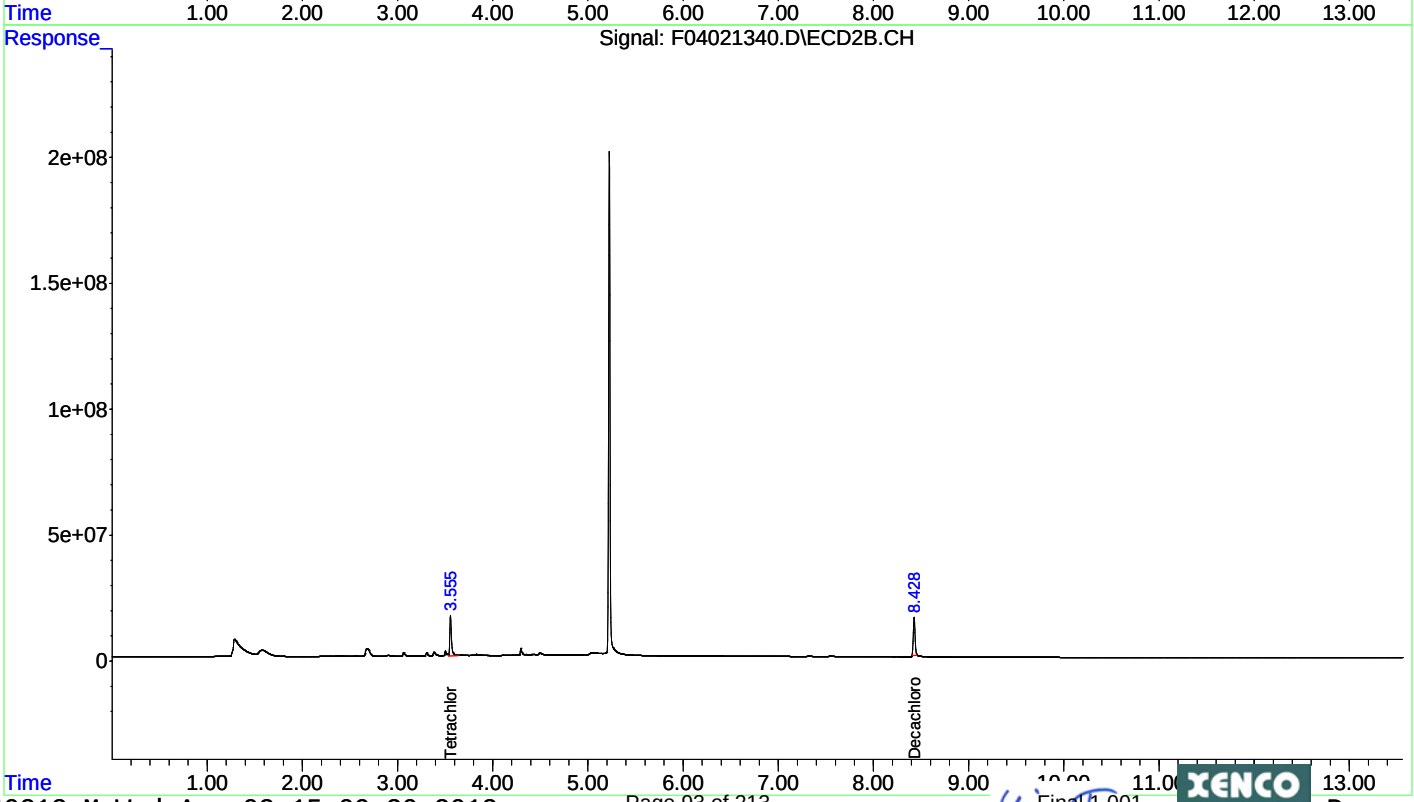
Quantitation Report (Not Reviewed)

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

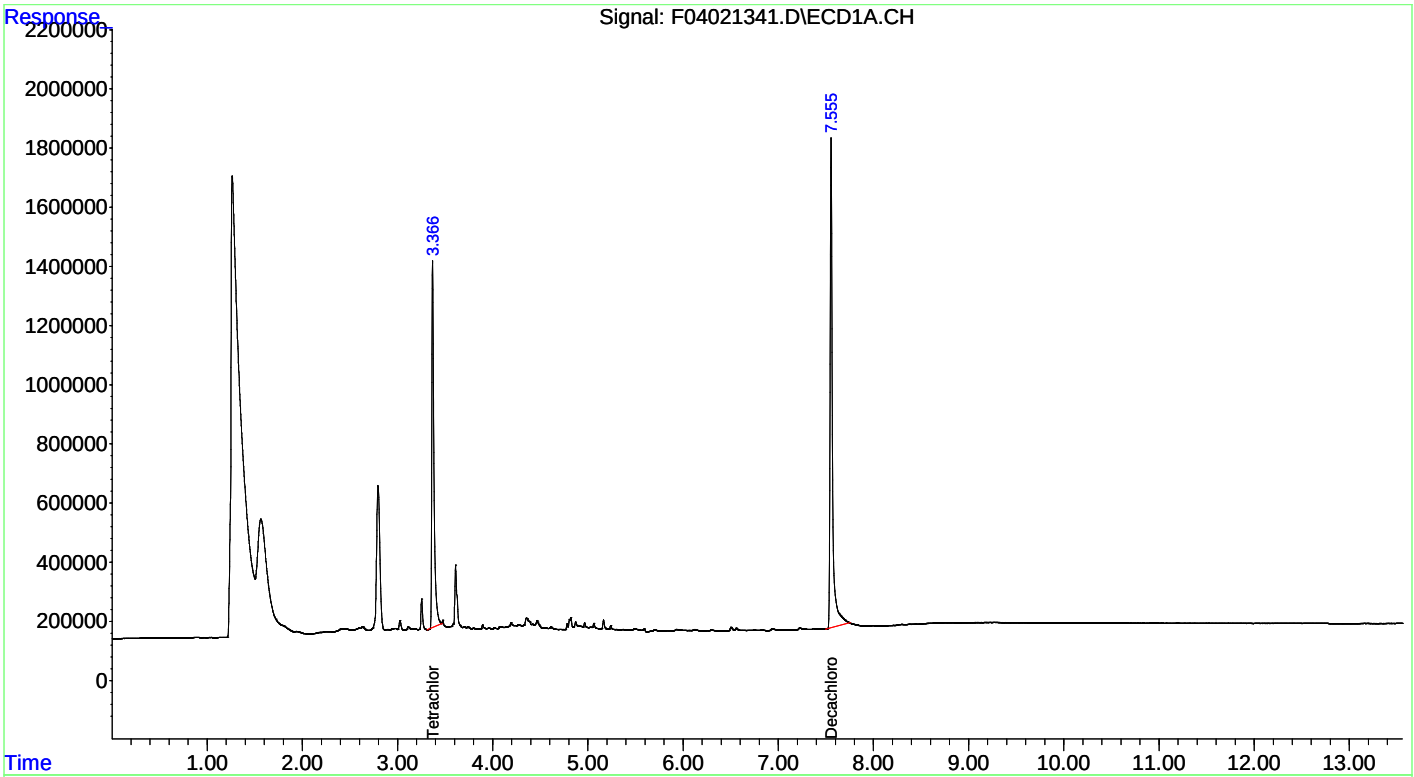
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

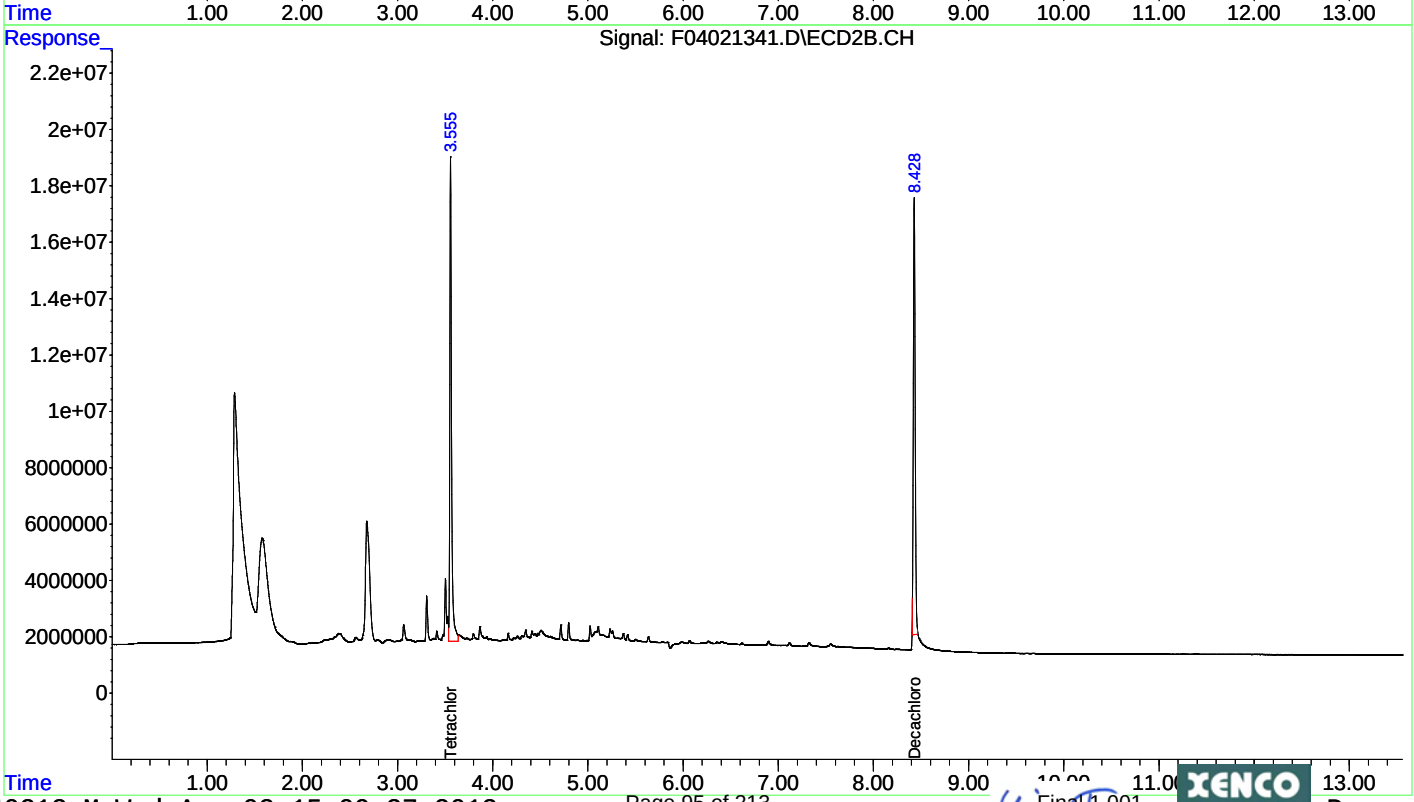
Quantitation Report (Not Reviewed)

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

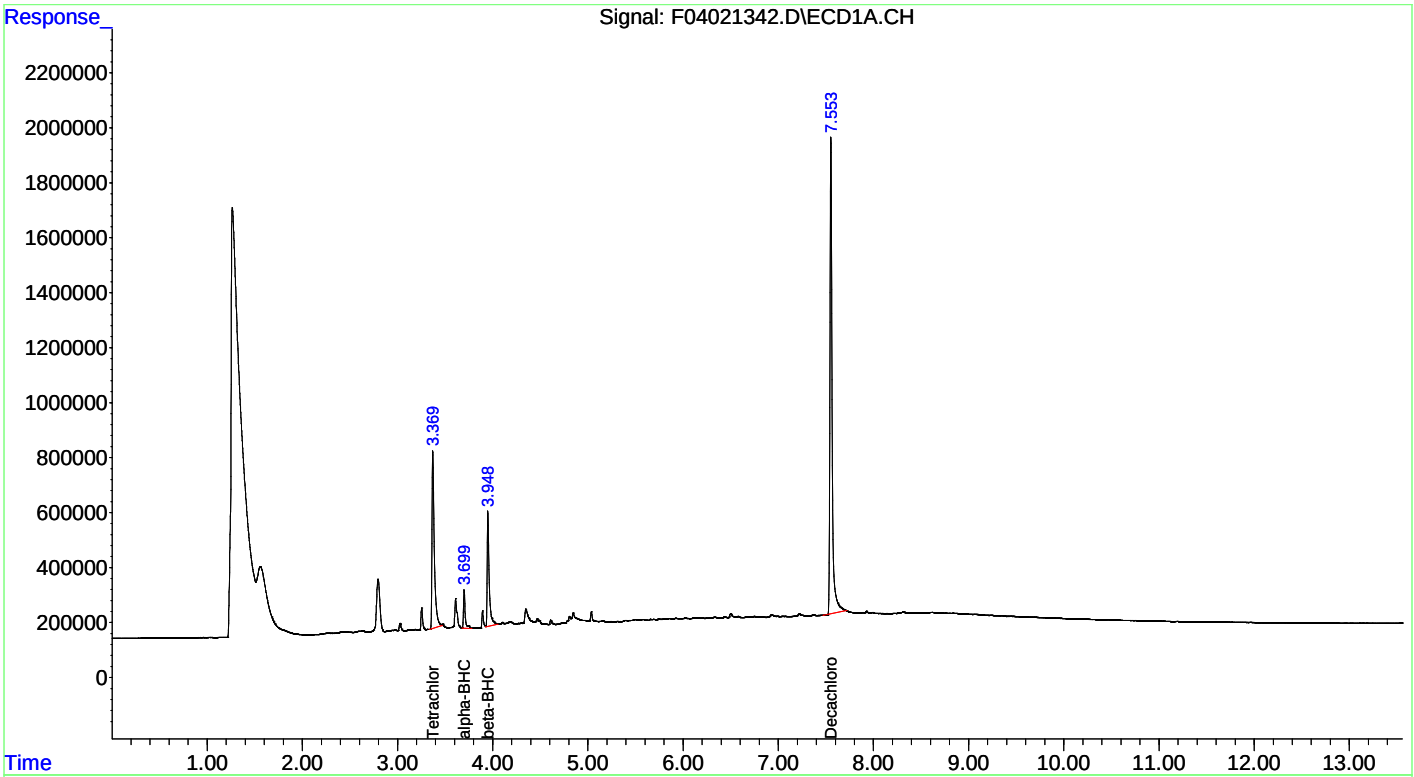
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

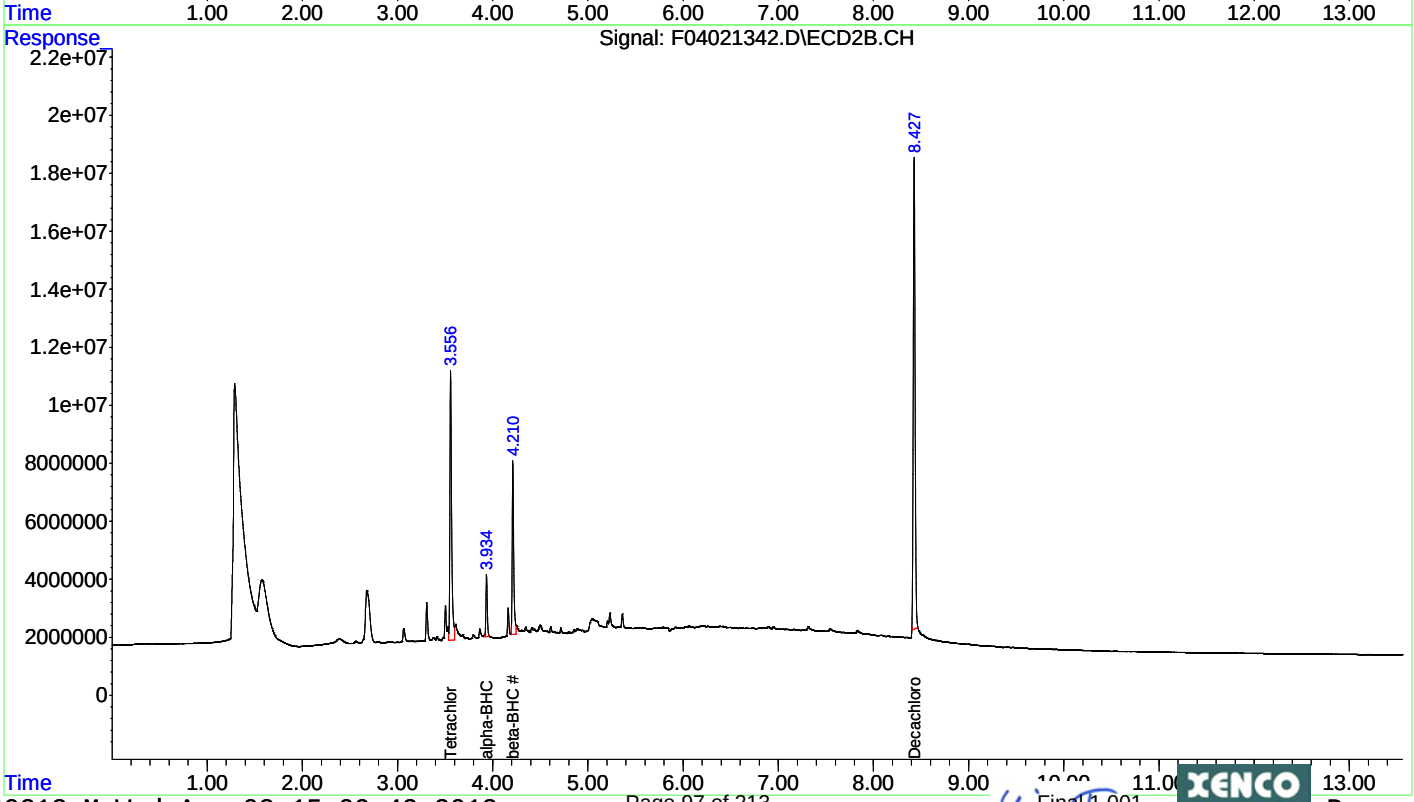
Quantitation Report (Not Reviewed)

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)

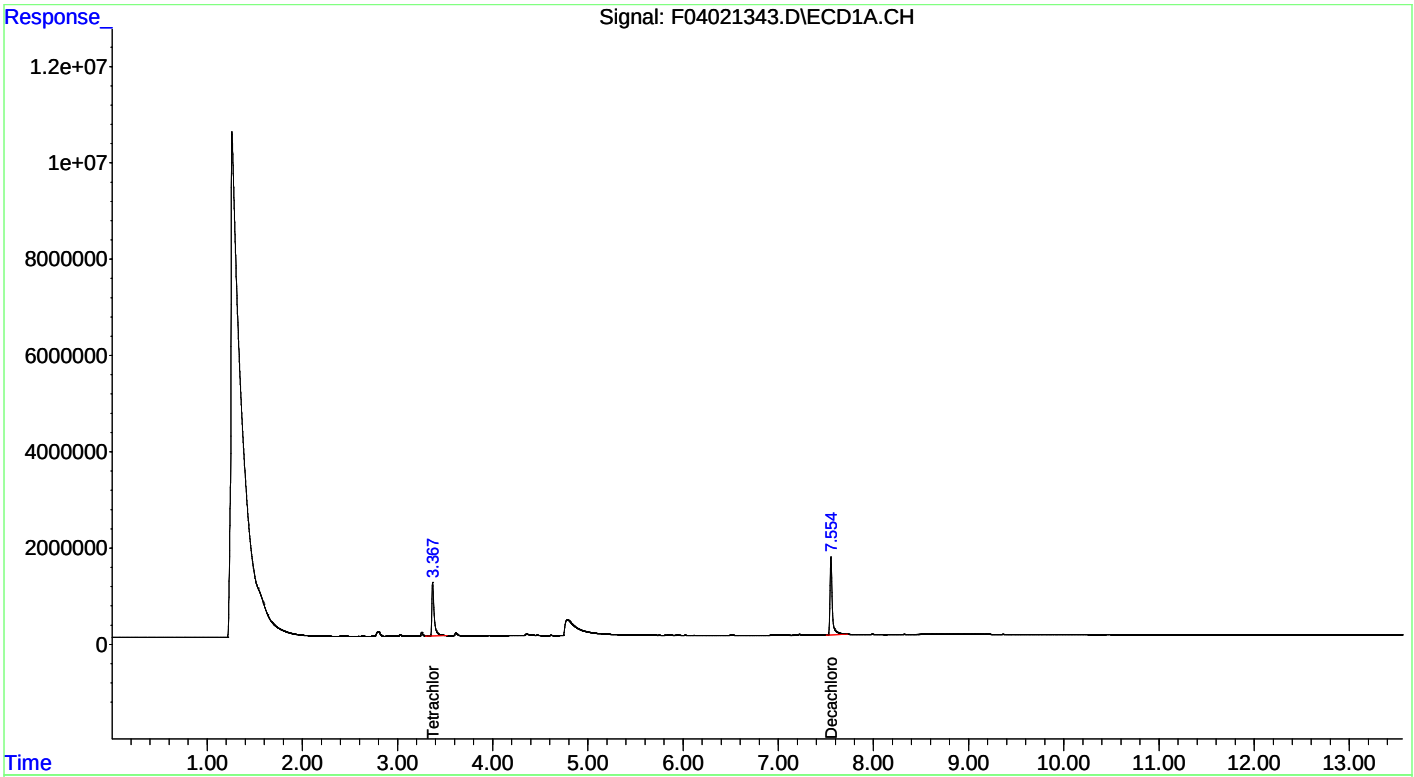
```
Data Path : C:\msdchem\1\DATA\2013\F040213\
Data File : F04021343.D
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 03 Apr 2013   6:26
Operator  : NT
Sample    : 460271-014
Misc      :
ALS Vial  : 43   Sample Multiplier: 1

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.
```

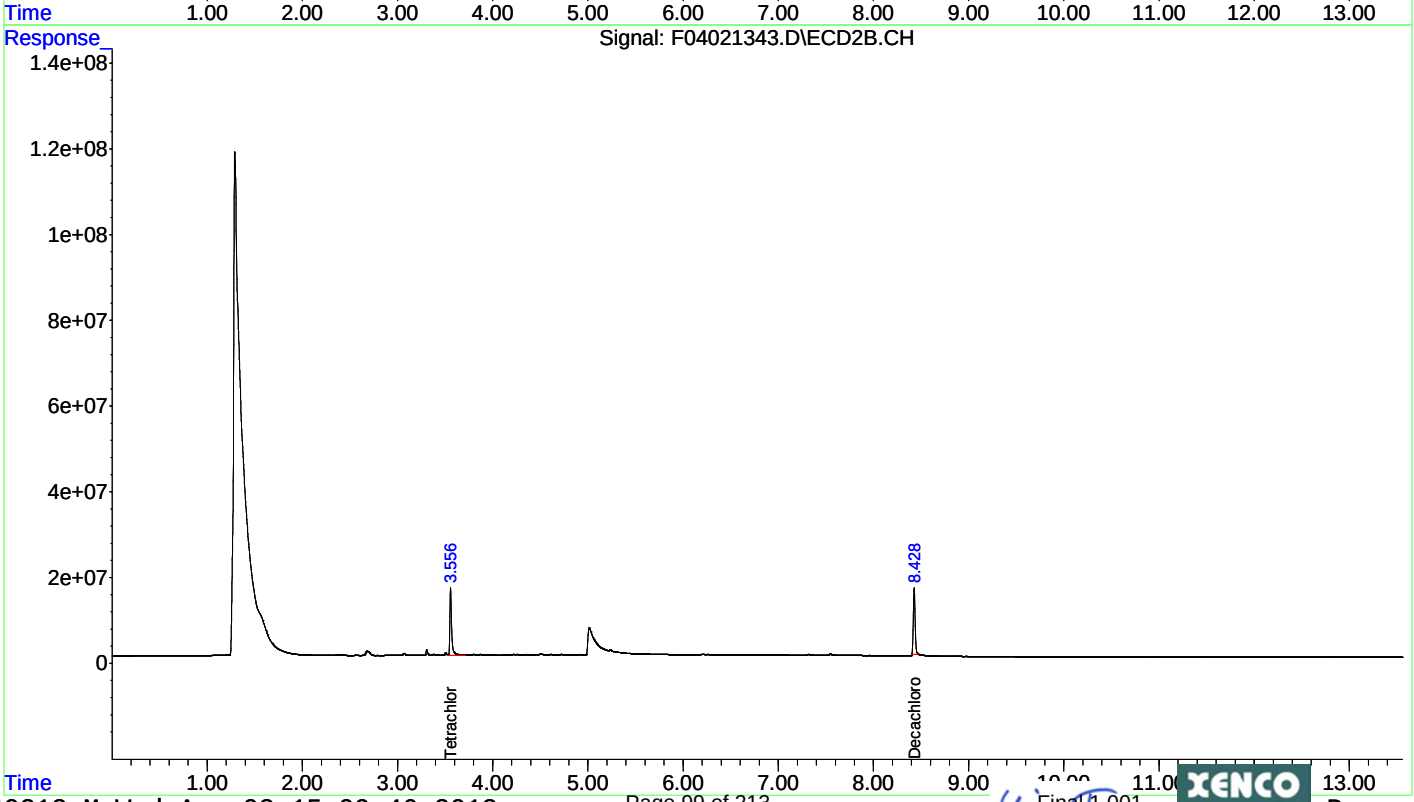
Quantitation Report (Not Reviewed)

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

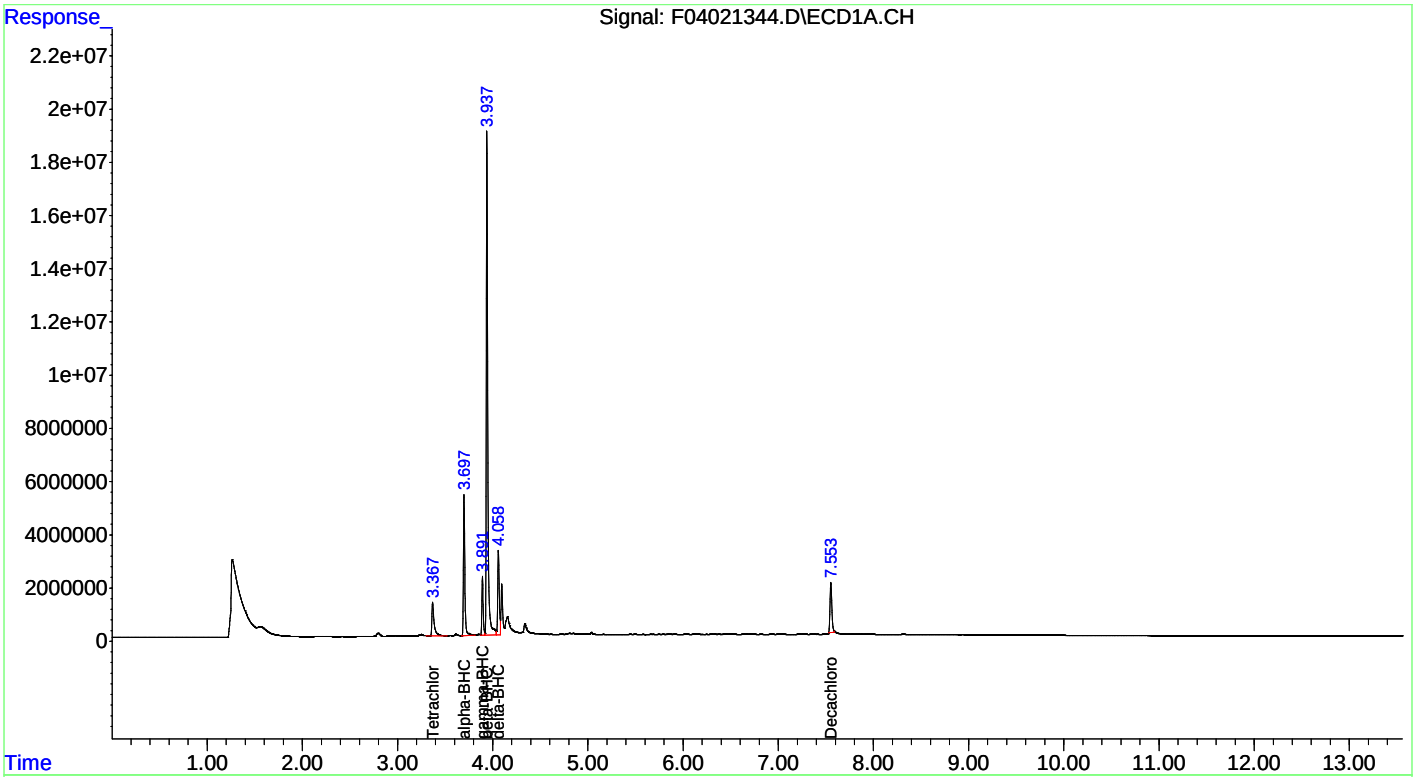
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

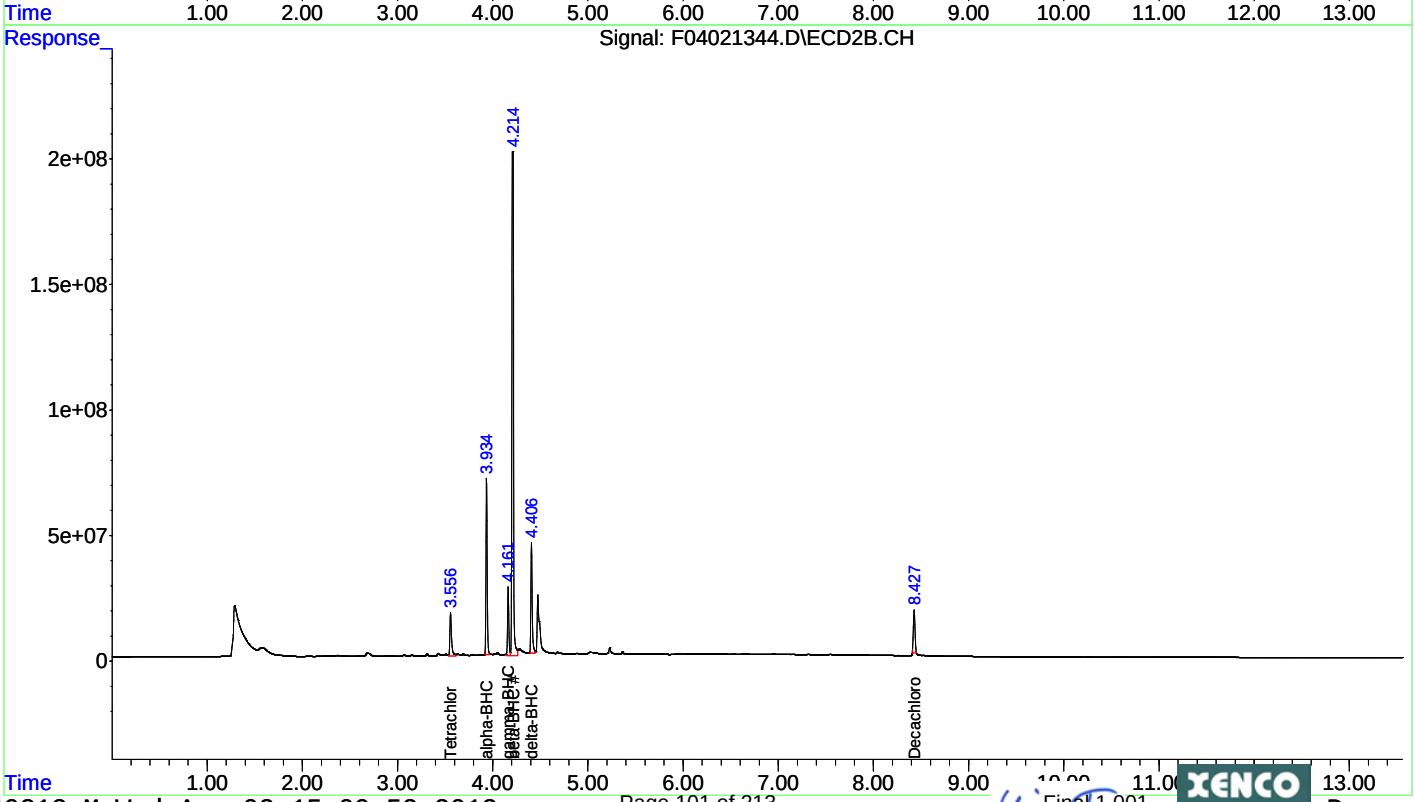
Quantitation Report (Not Reviewed)

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

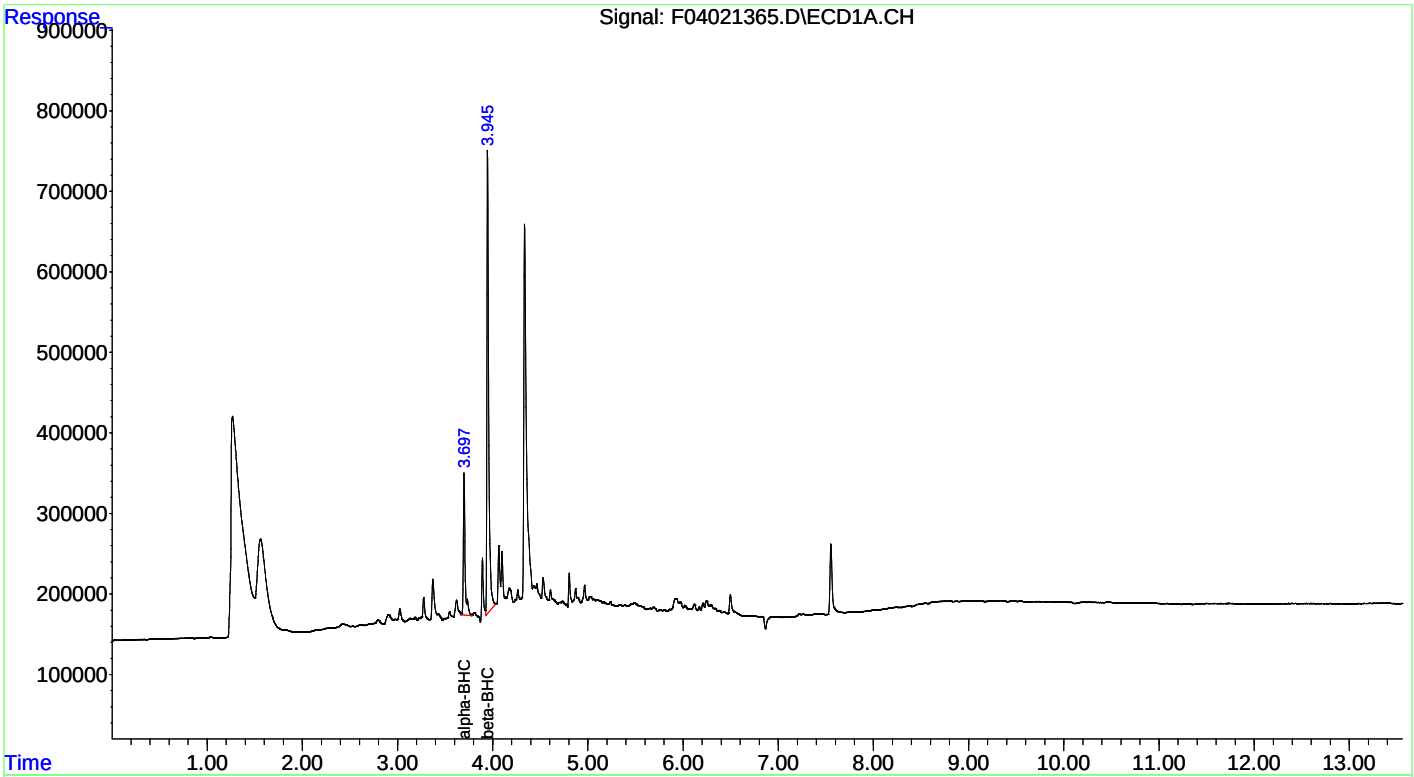
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

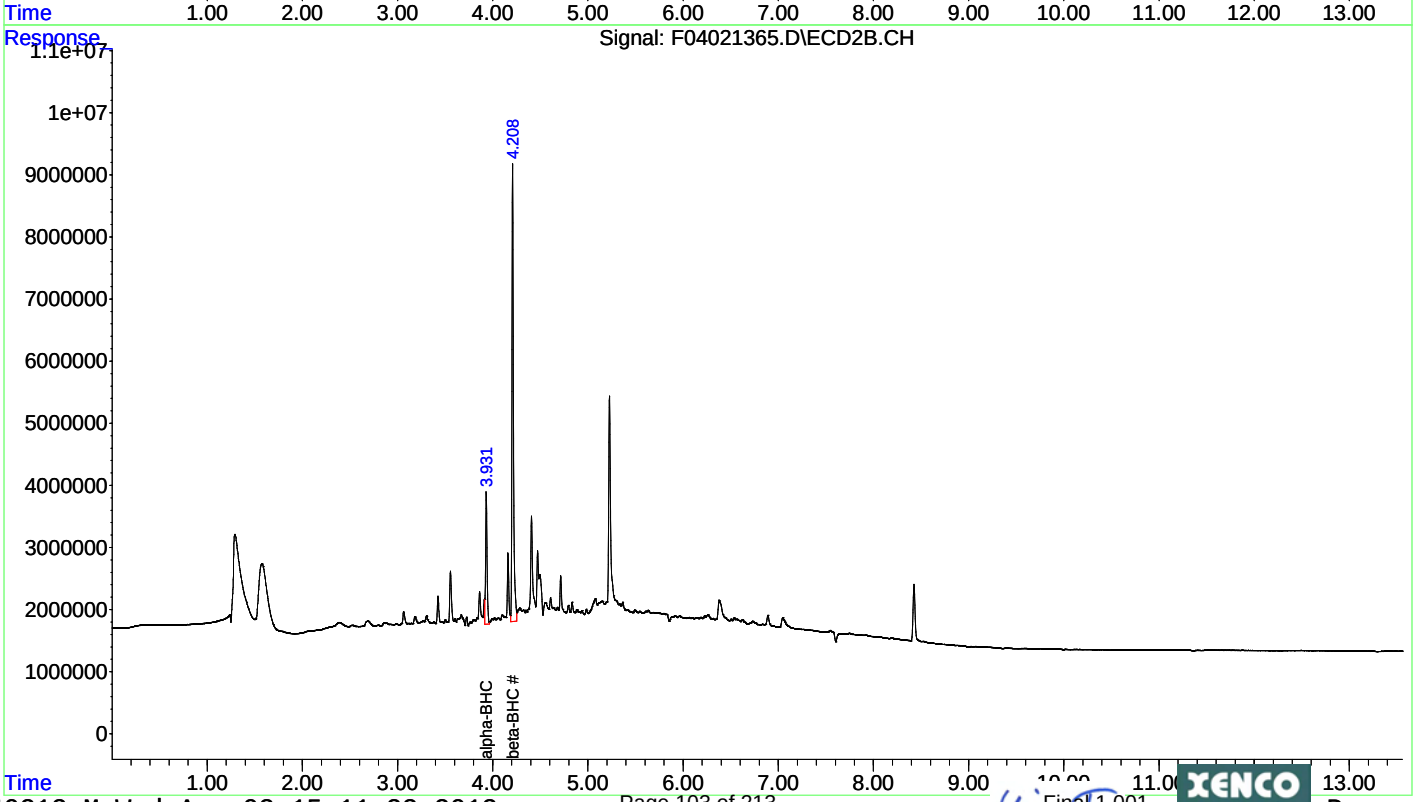
Quantitation Report (Not Reviewed)

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

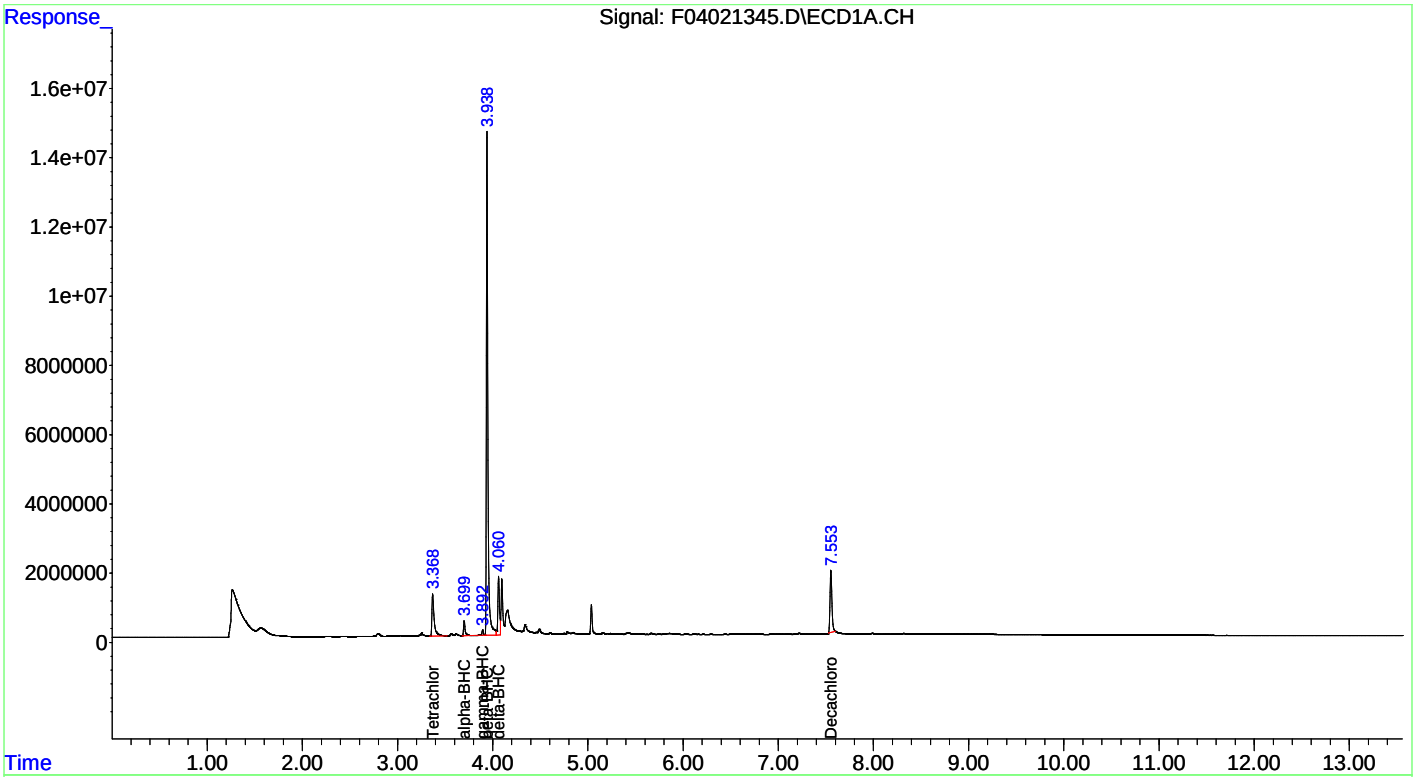
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

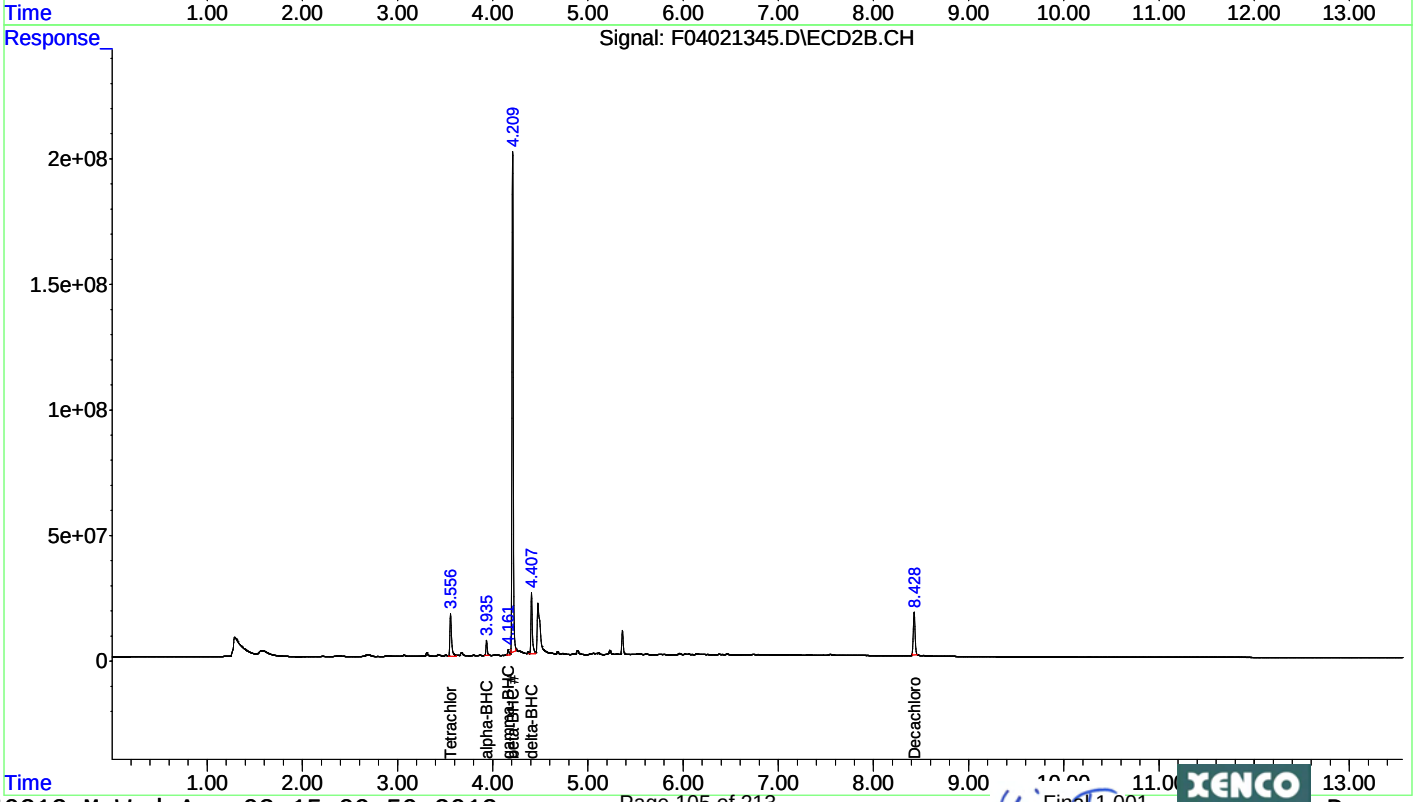
Quantitation Report (Not Reviewed)

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

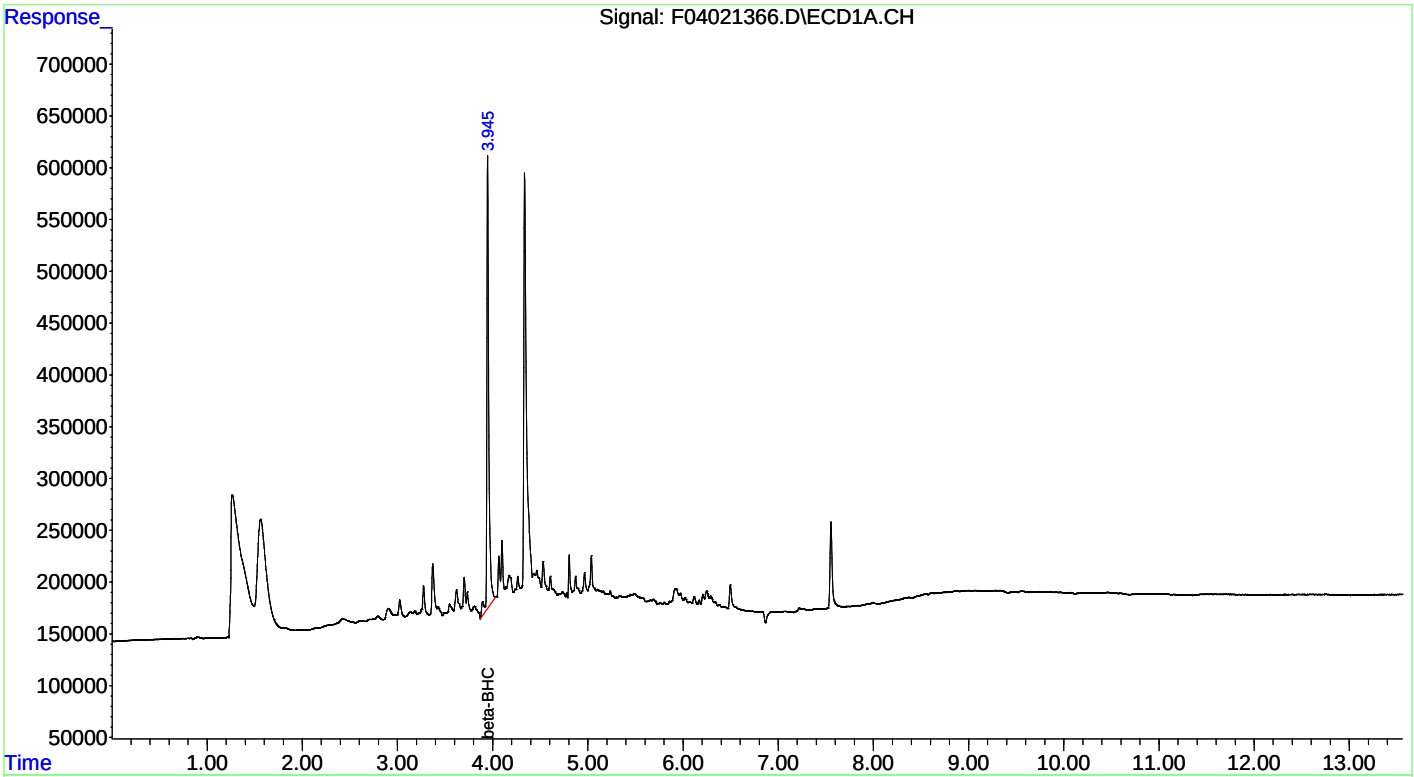
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

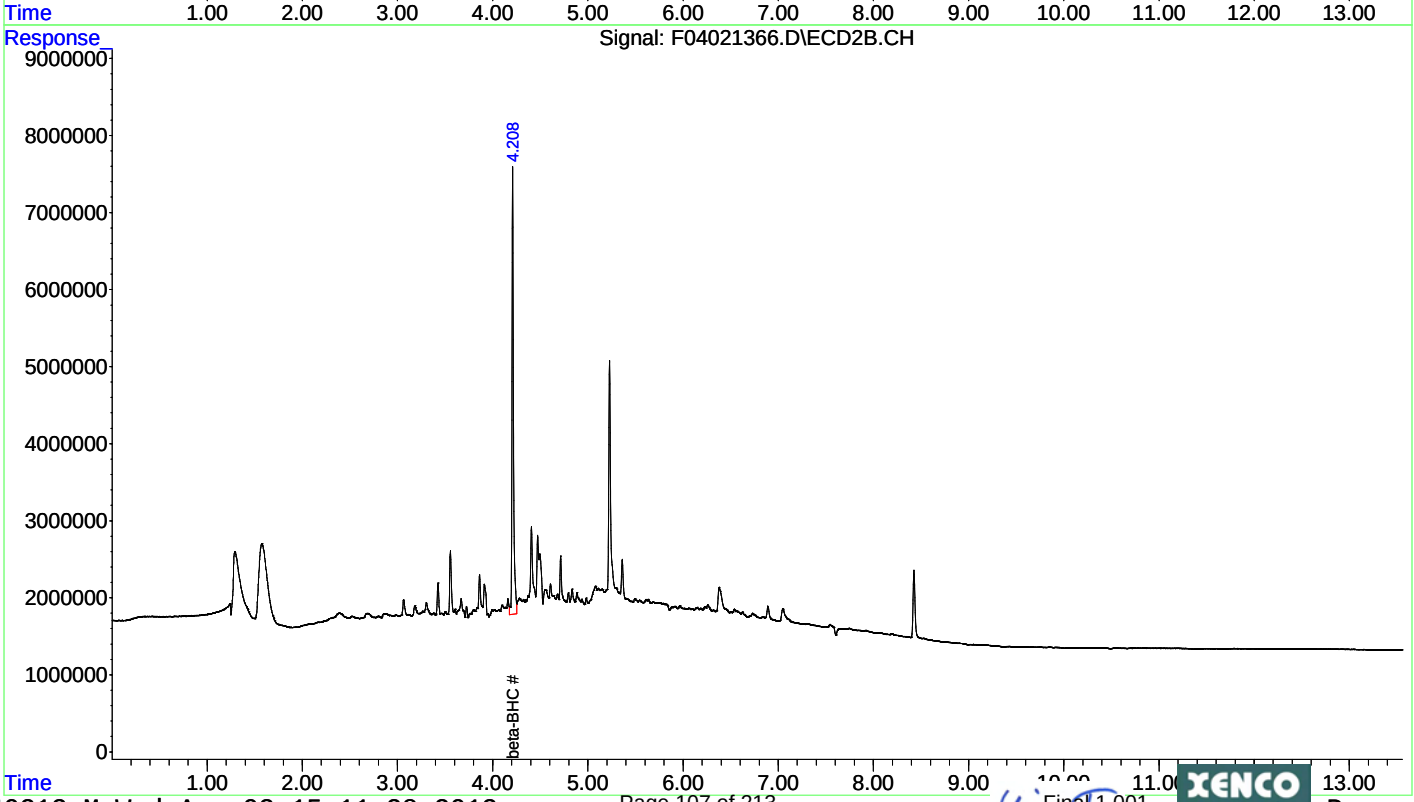
Quantitation Report (Not Reviewed)

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

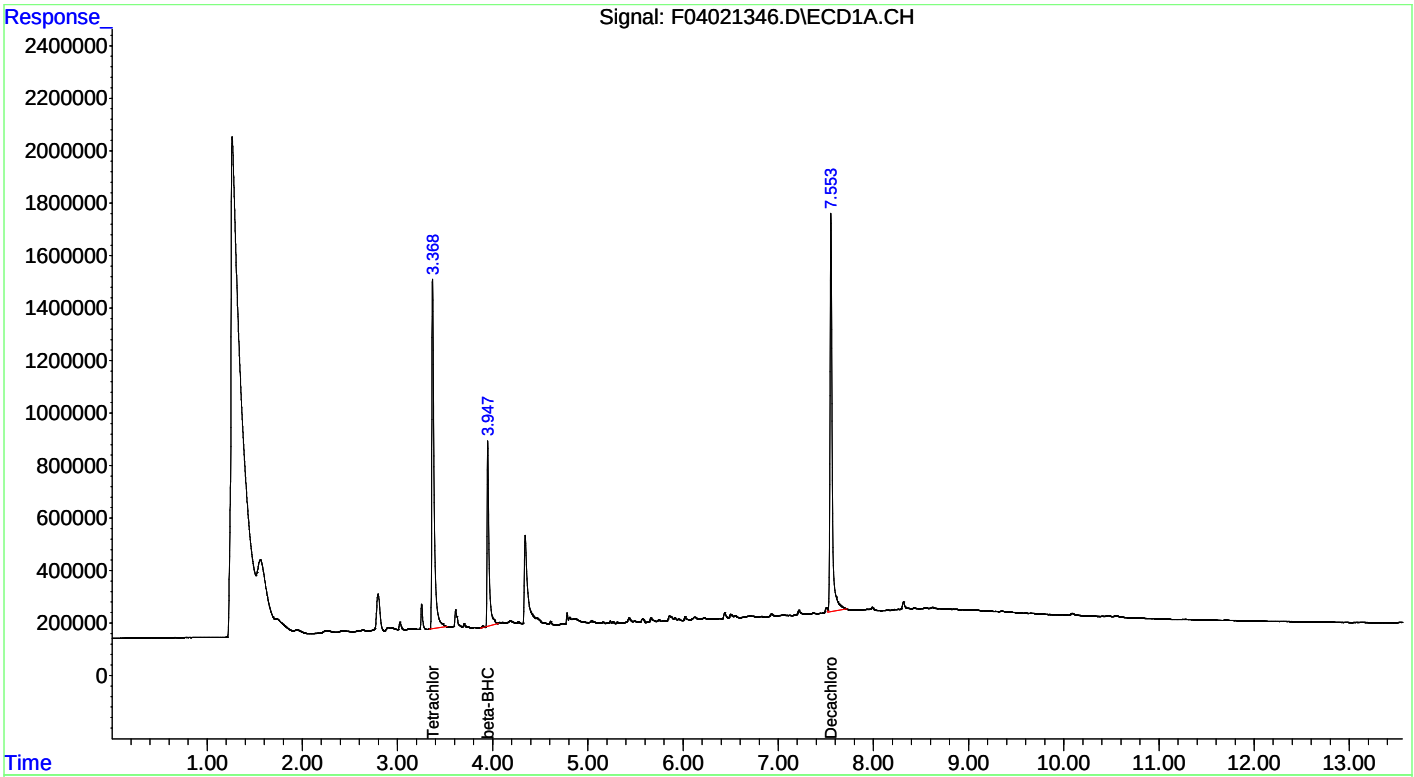
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

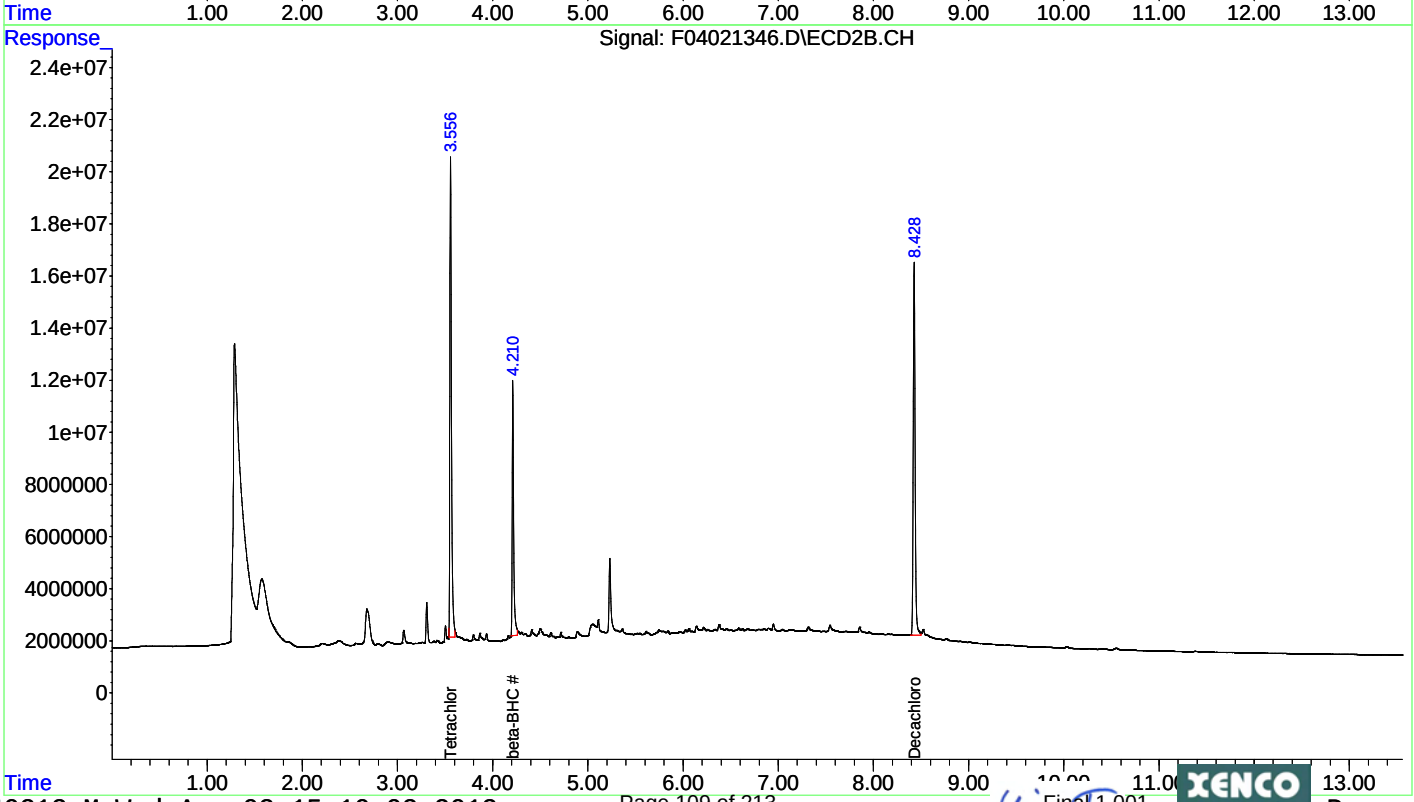
Quantitation Report (Not Reviewed)

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

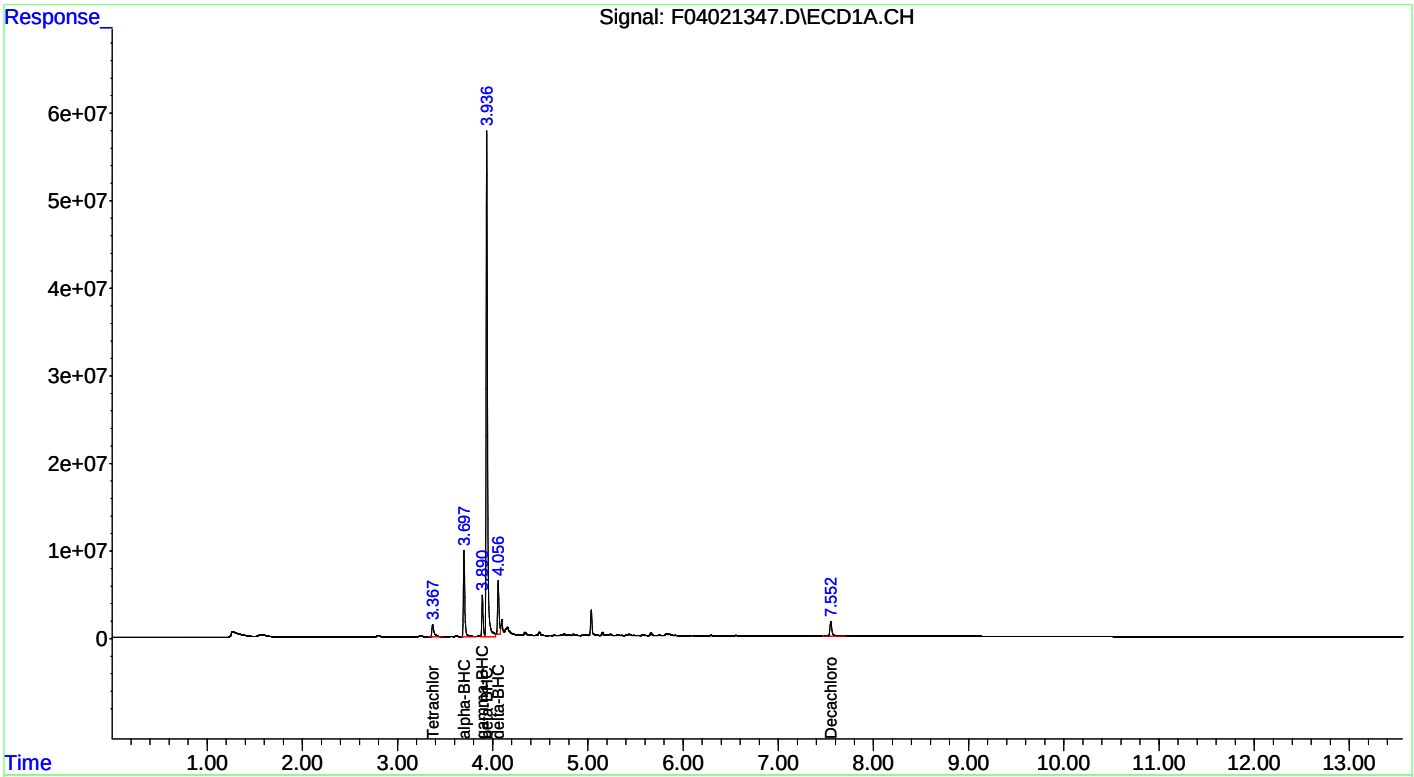
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

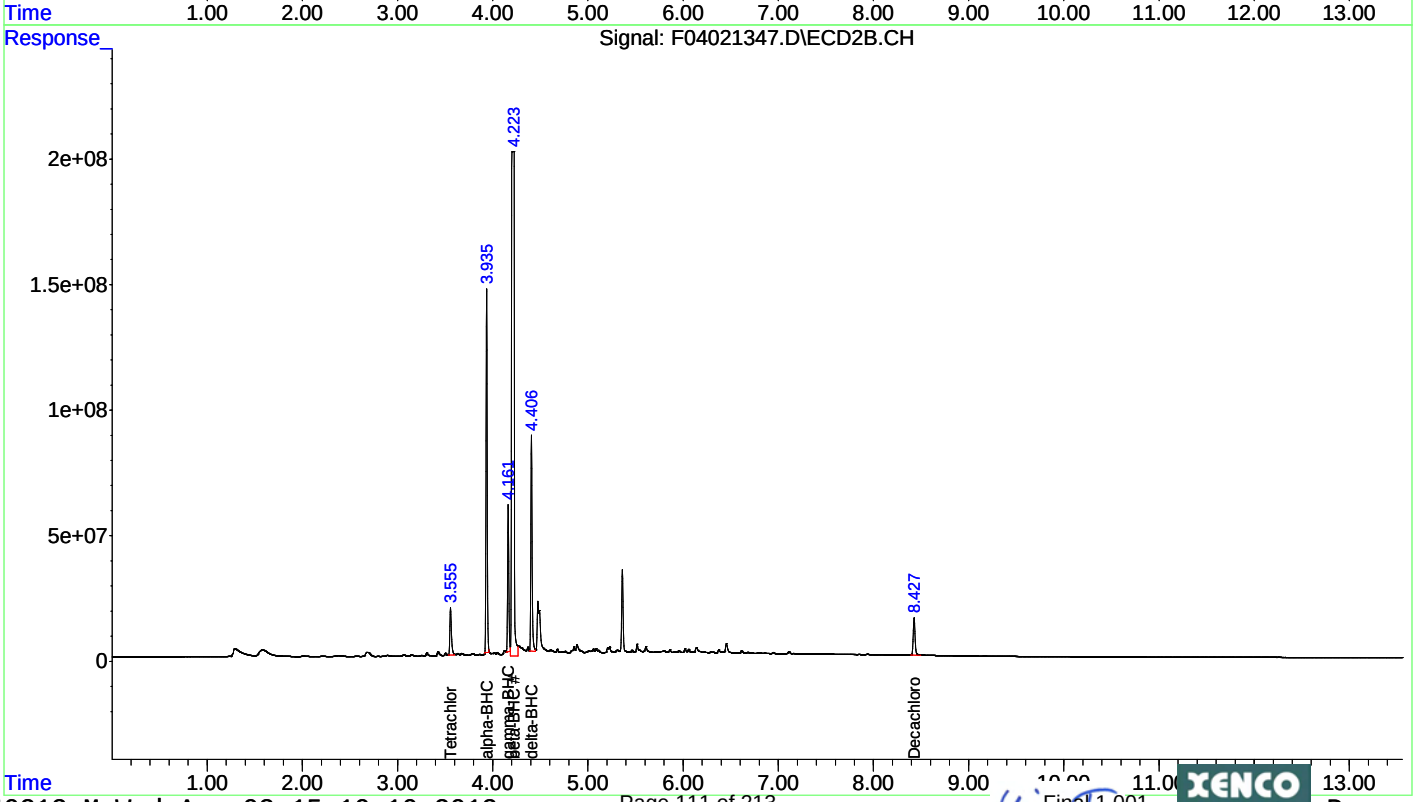
Quantitation Report (Not Reviewed)

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

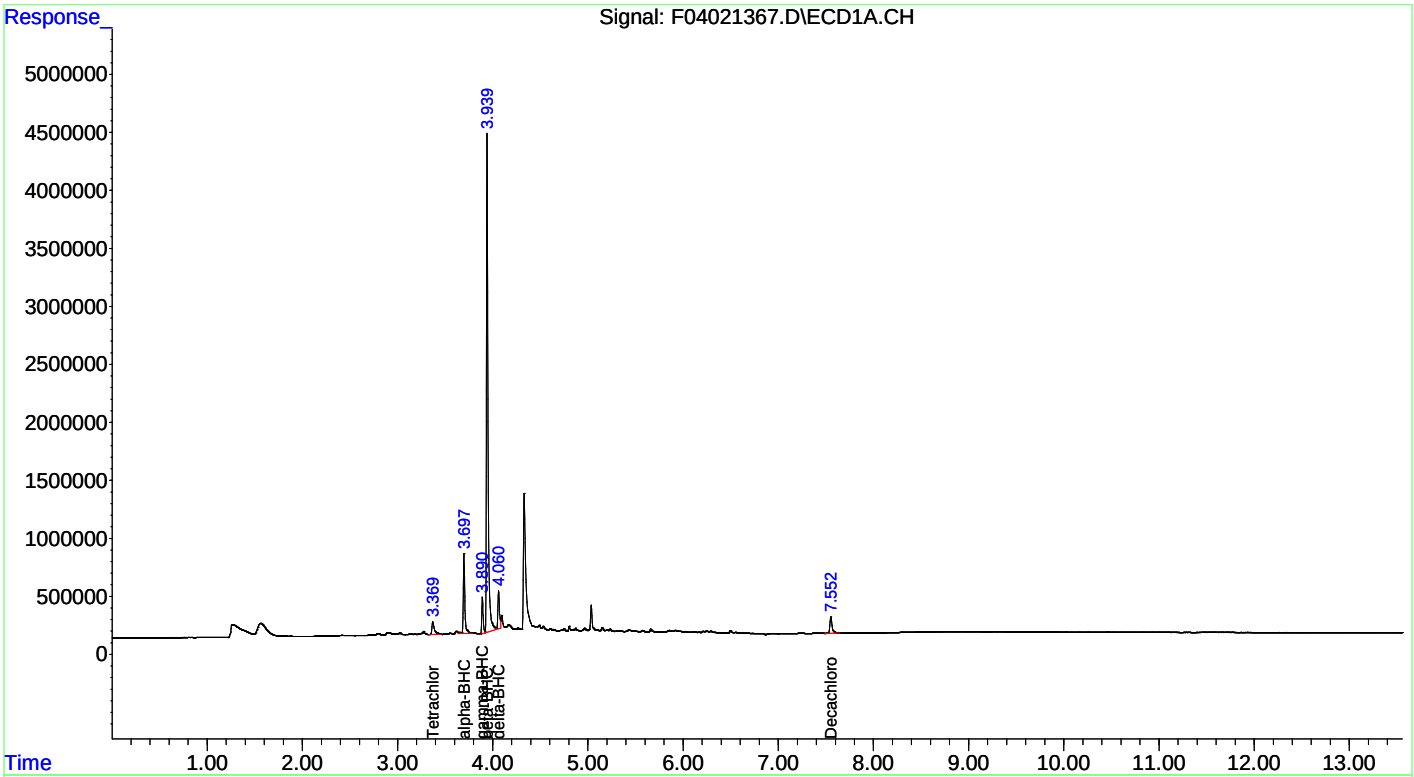
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

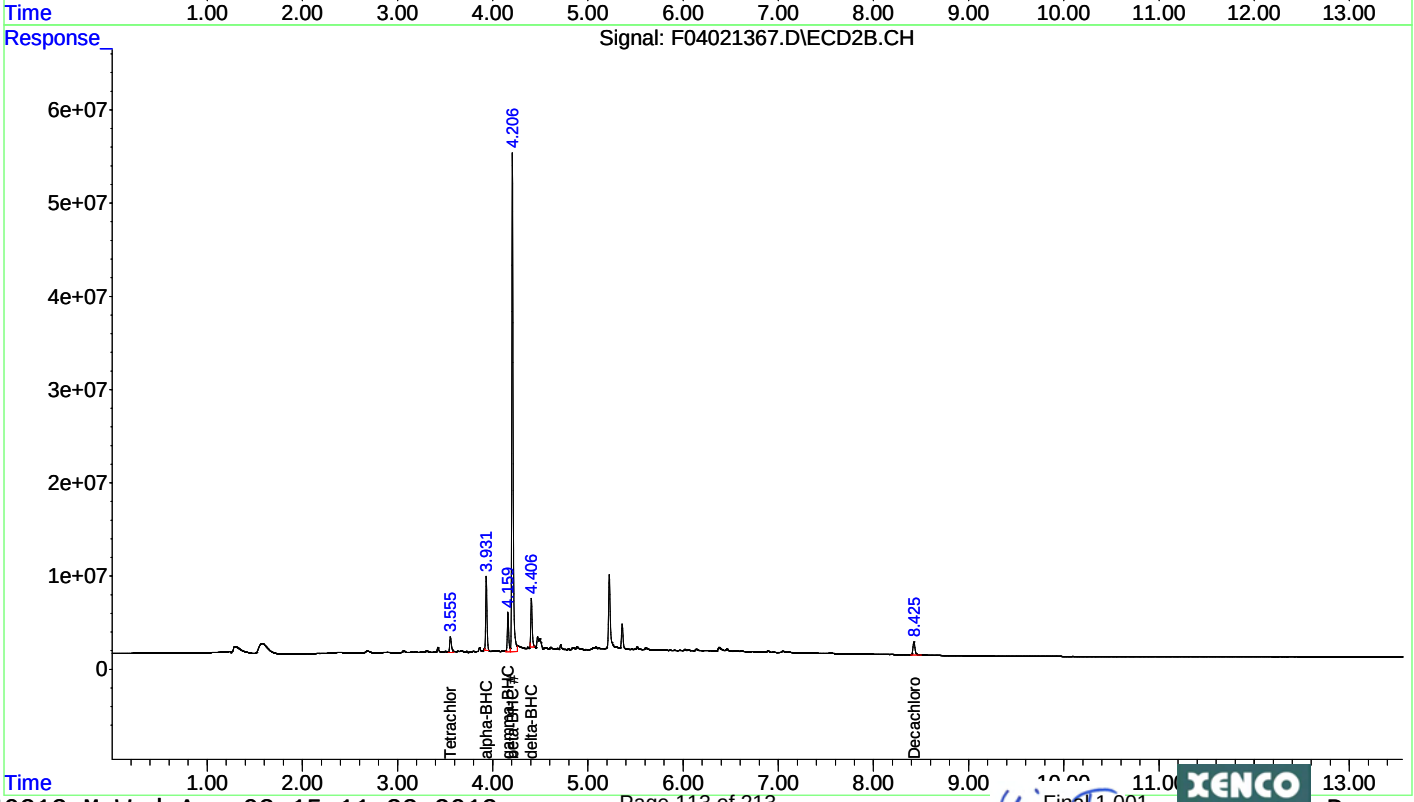
Quantitation Report (Not Reviewed)

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

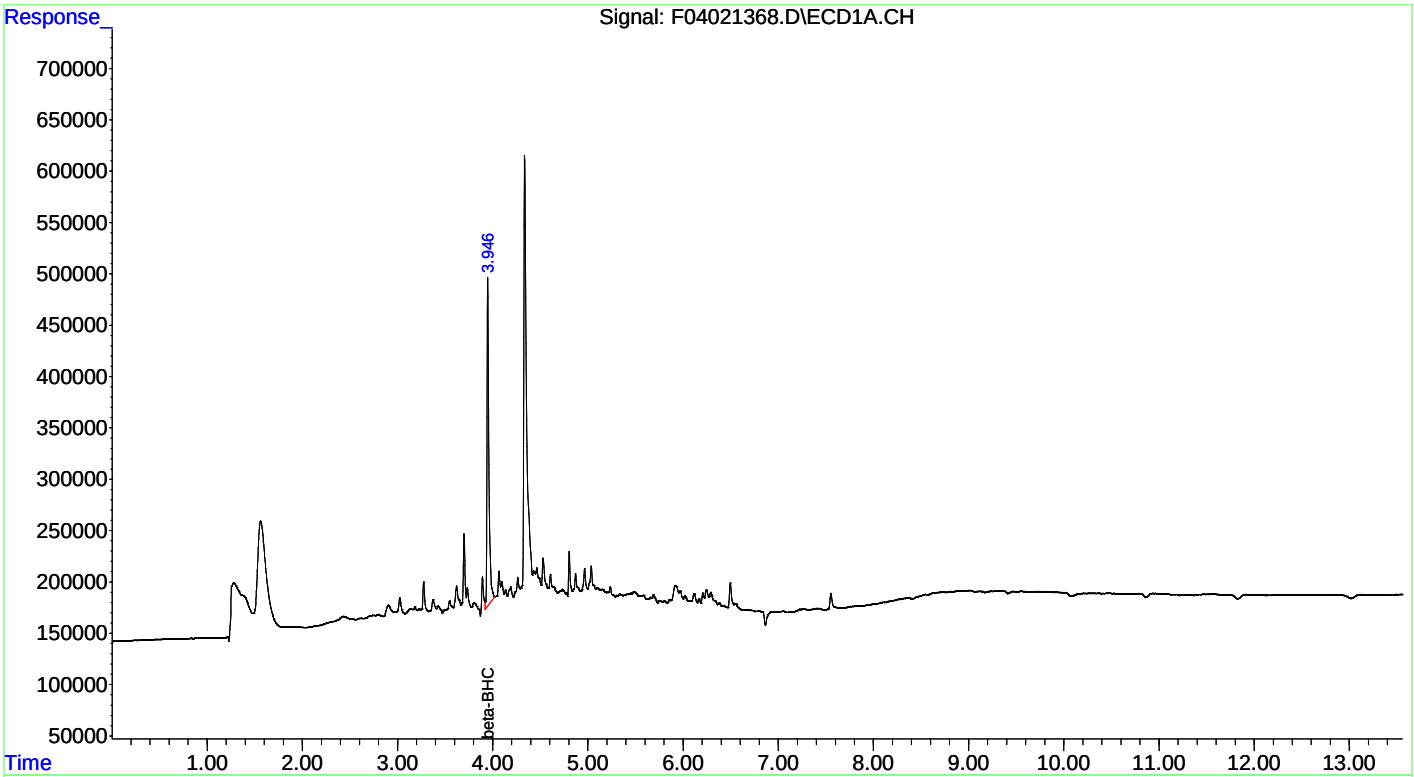
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

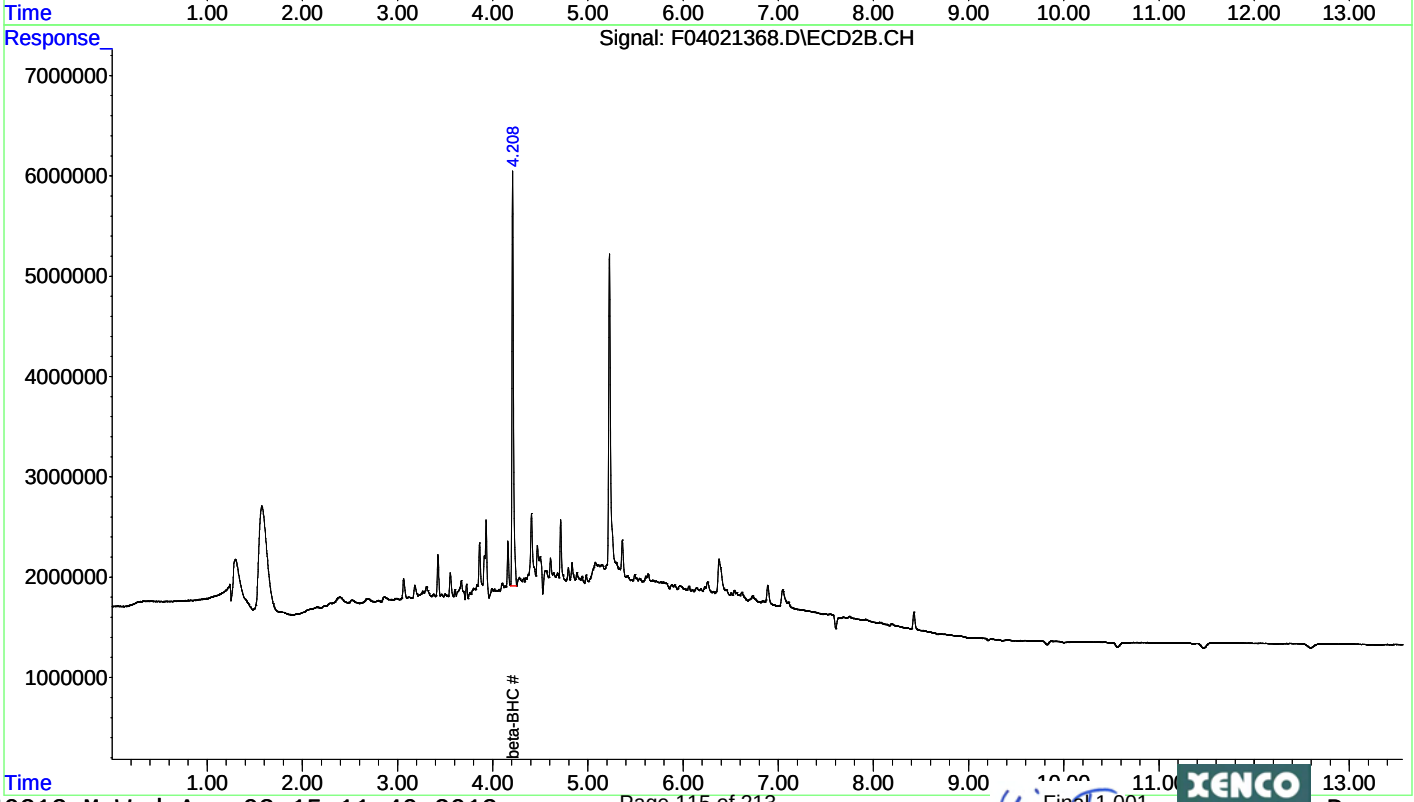
Quantitation Report (Not Reviewed)

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

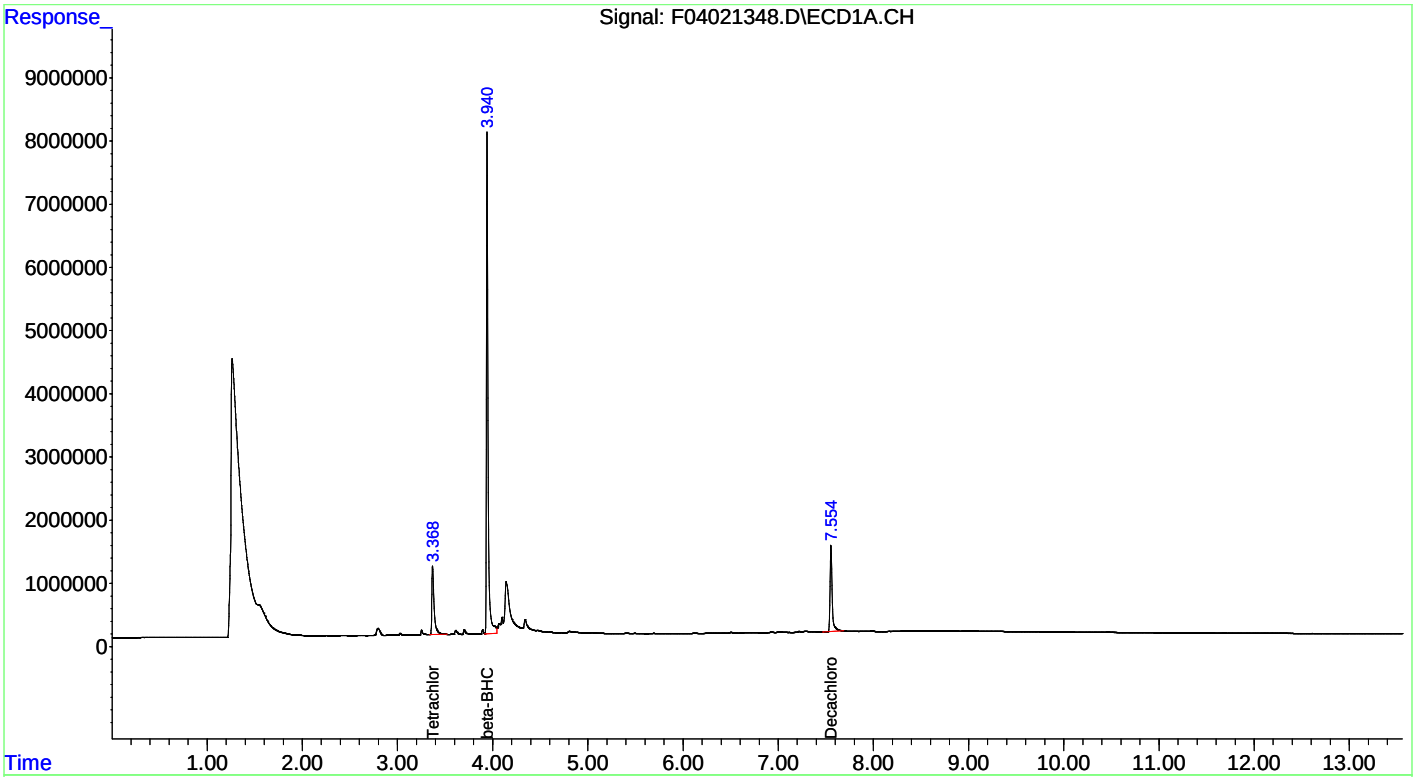
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

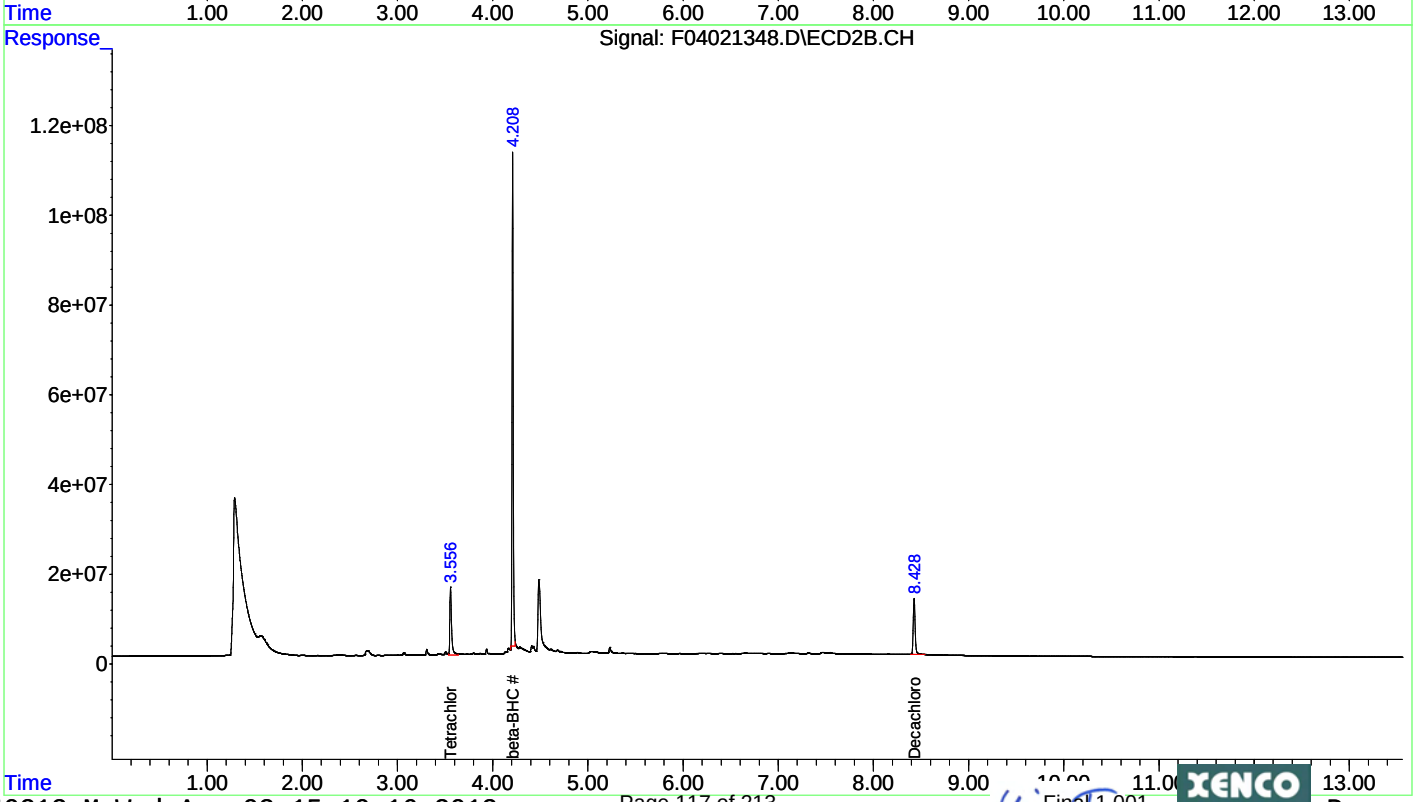
Quantitation Report (Not Reviewed)

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

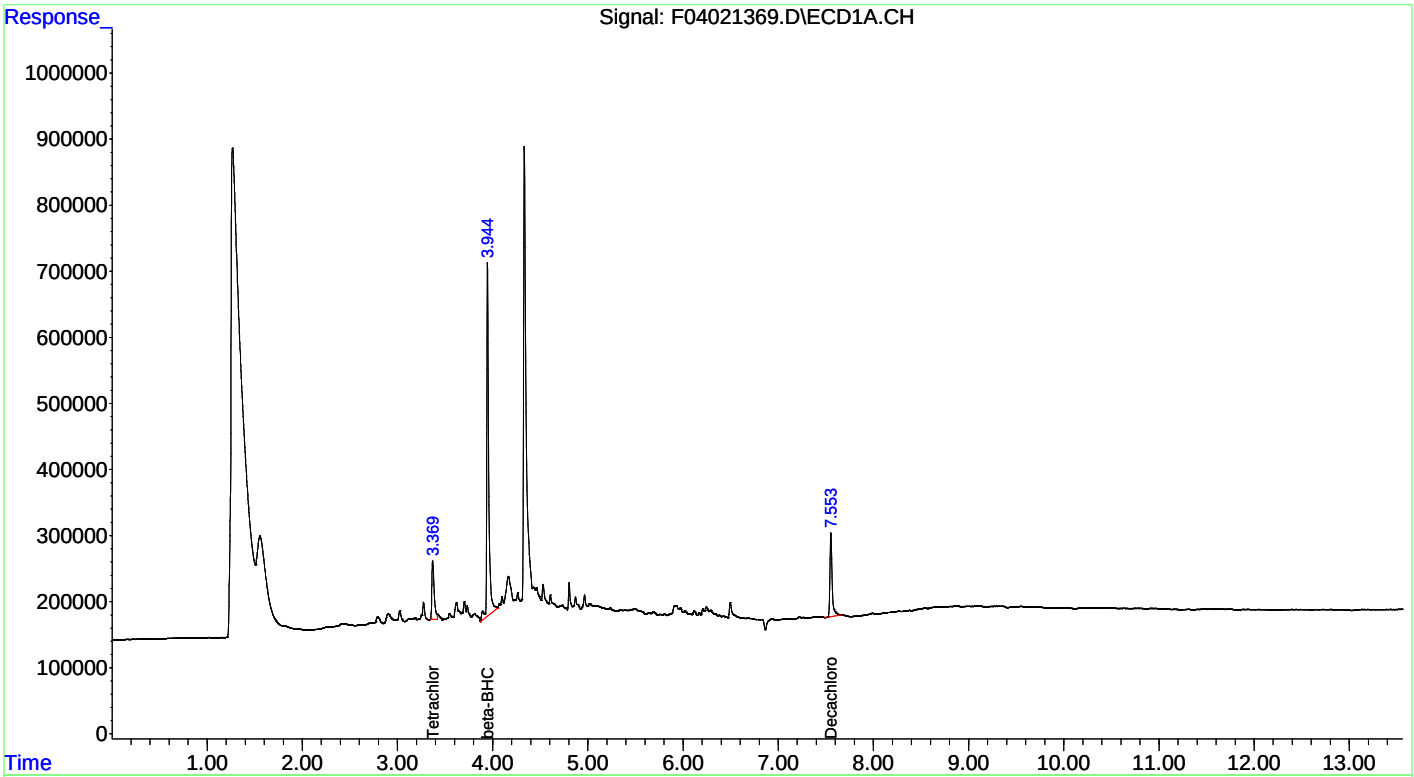
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

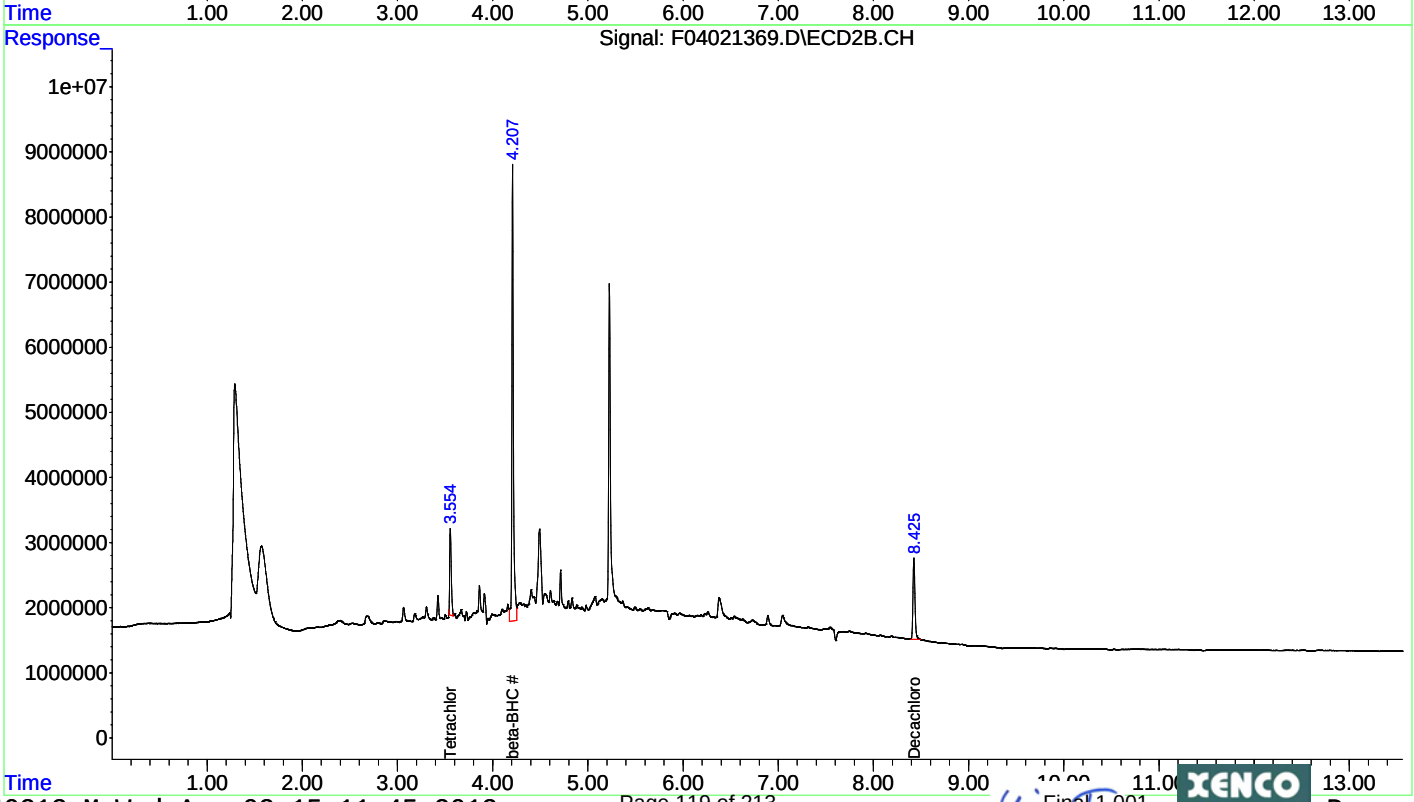
Quantitation Report (Not Reviewed)

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

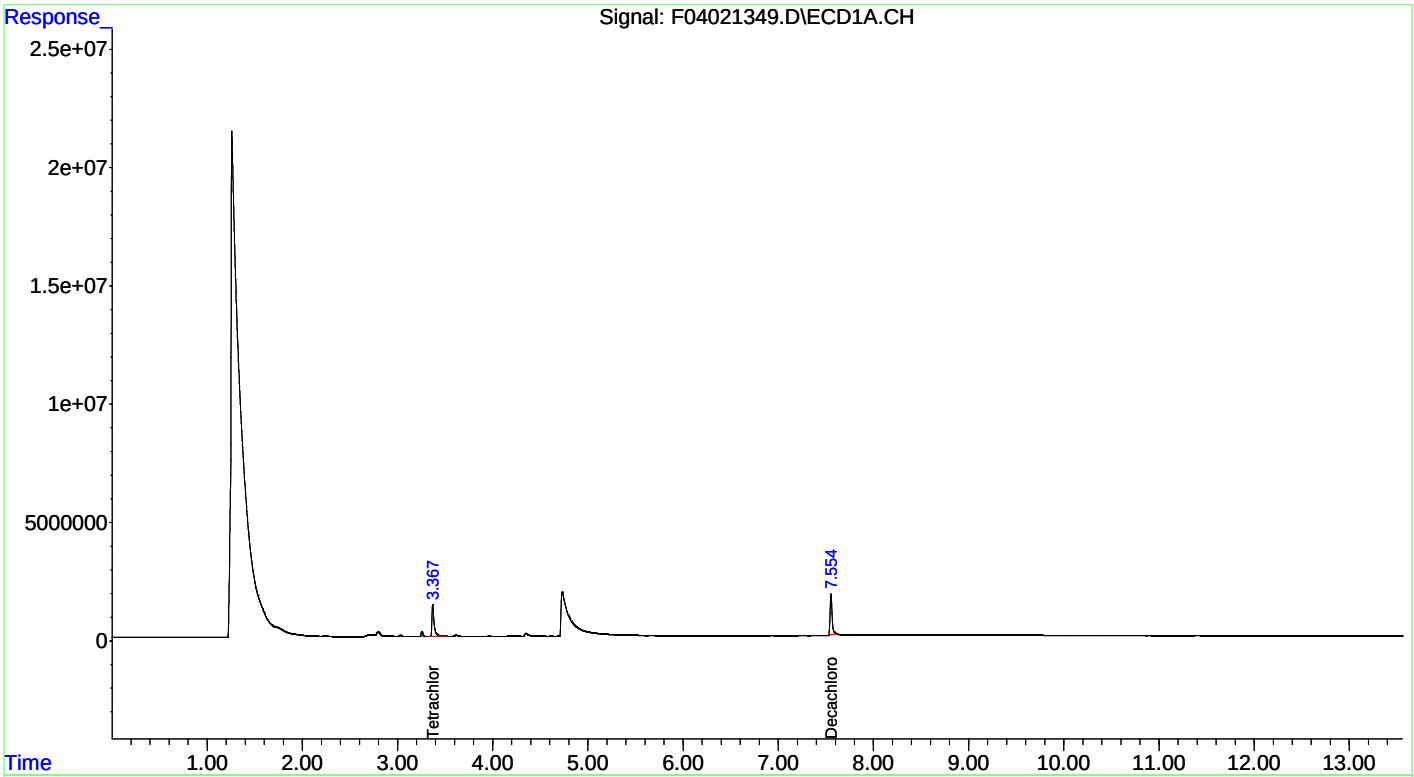
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

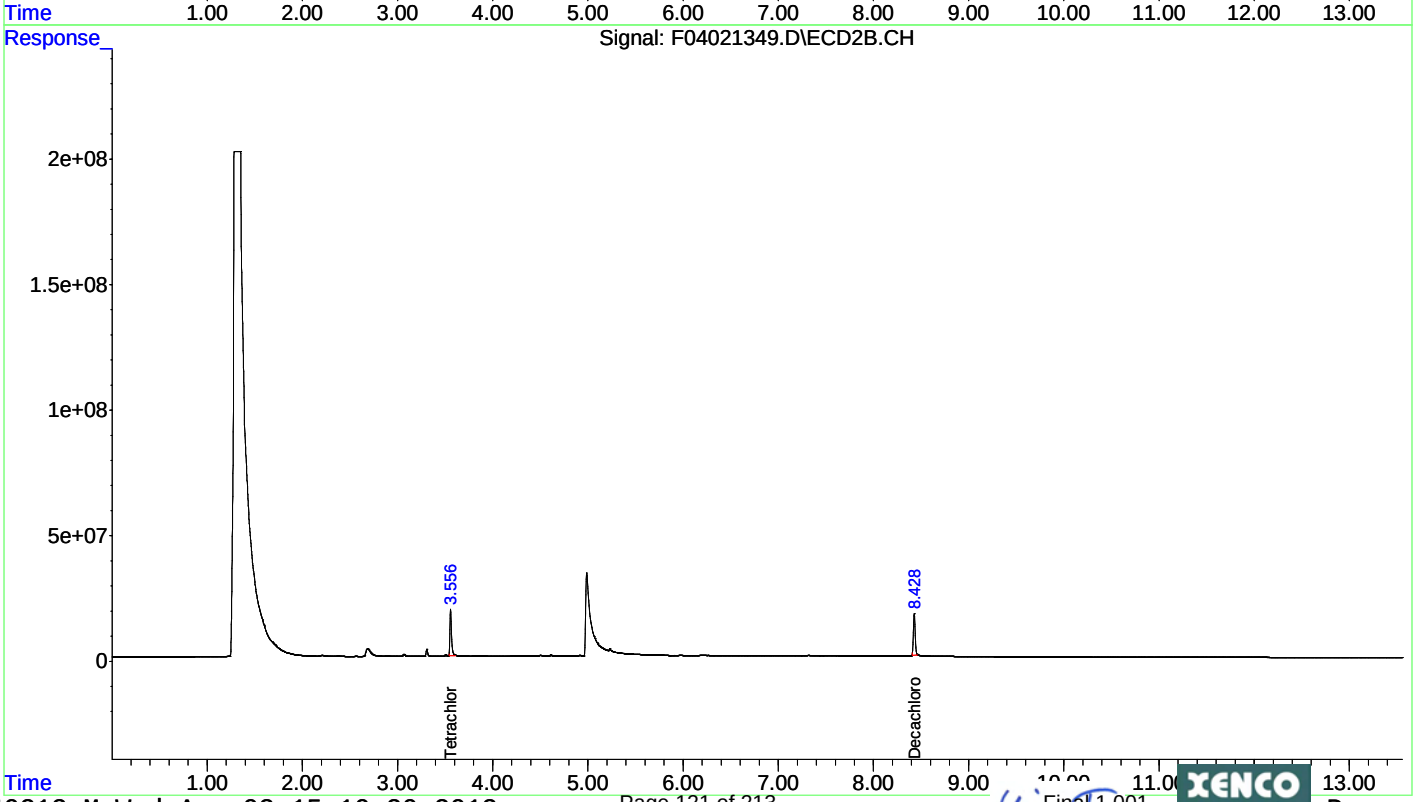
Quantitation Report (Not Reviewed)

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

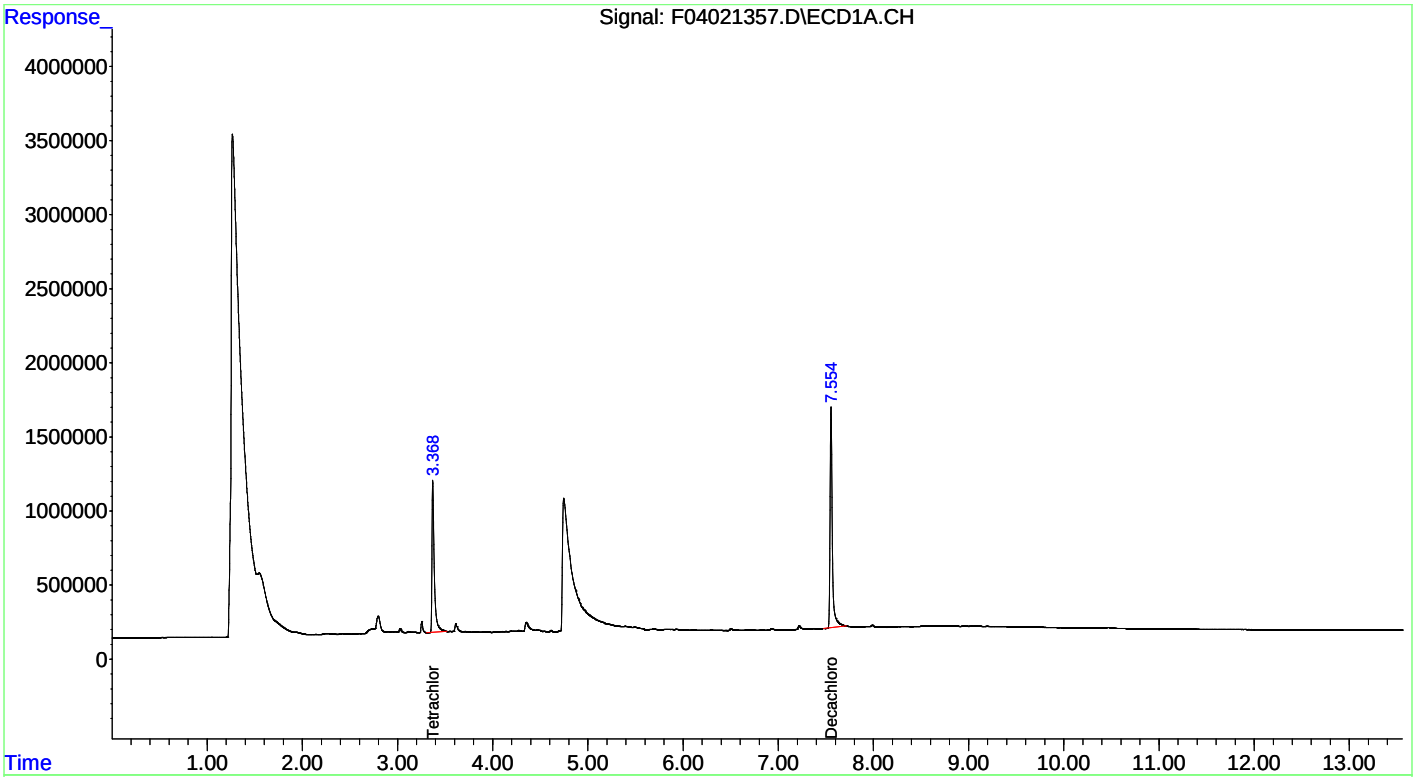
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

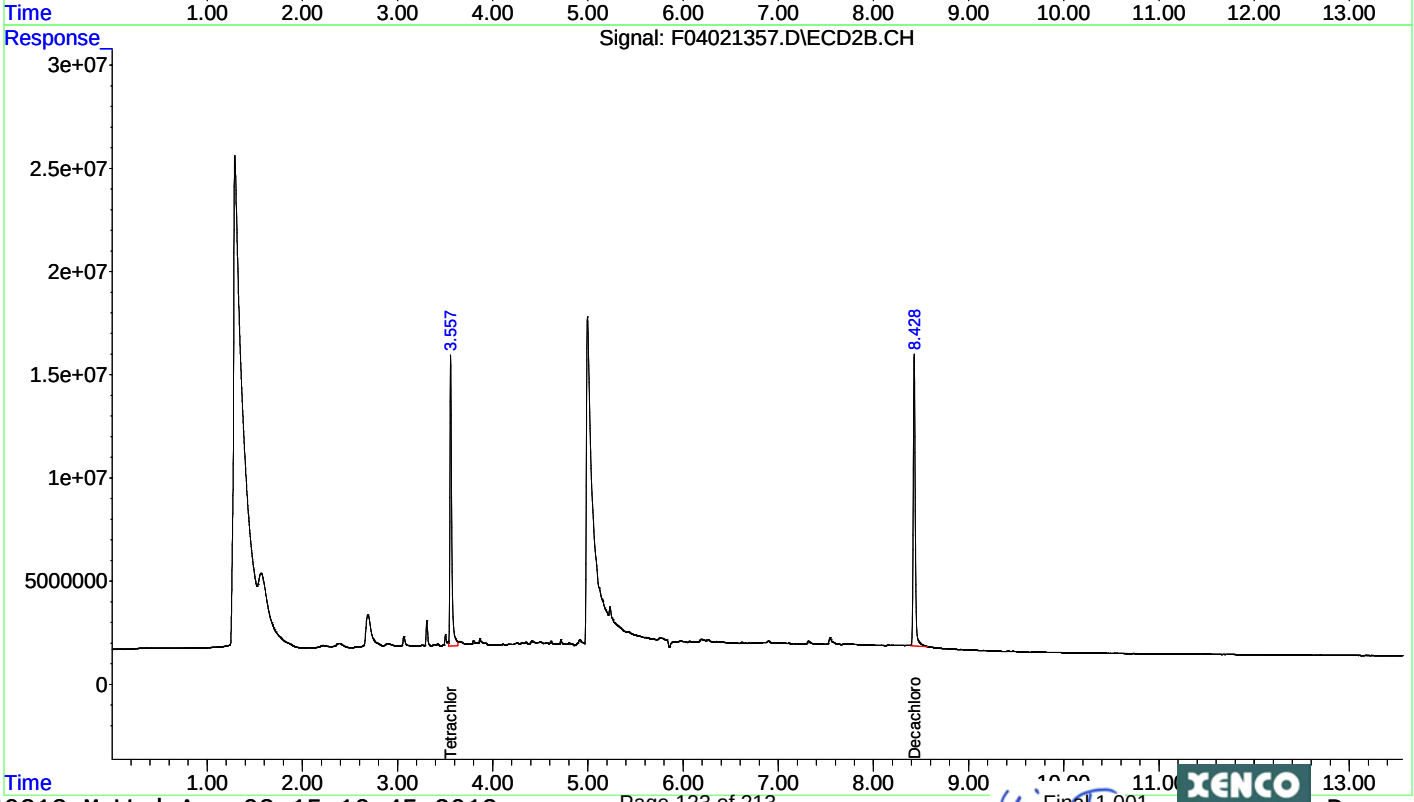
Quantitation Report (Not Reviewed)

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

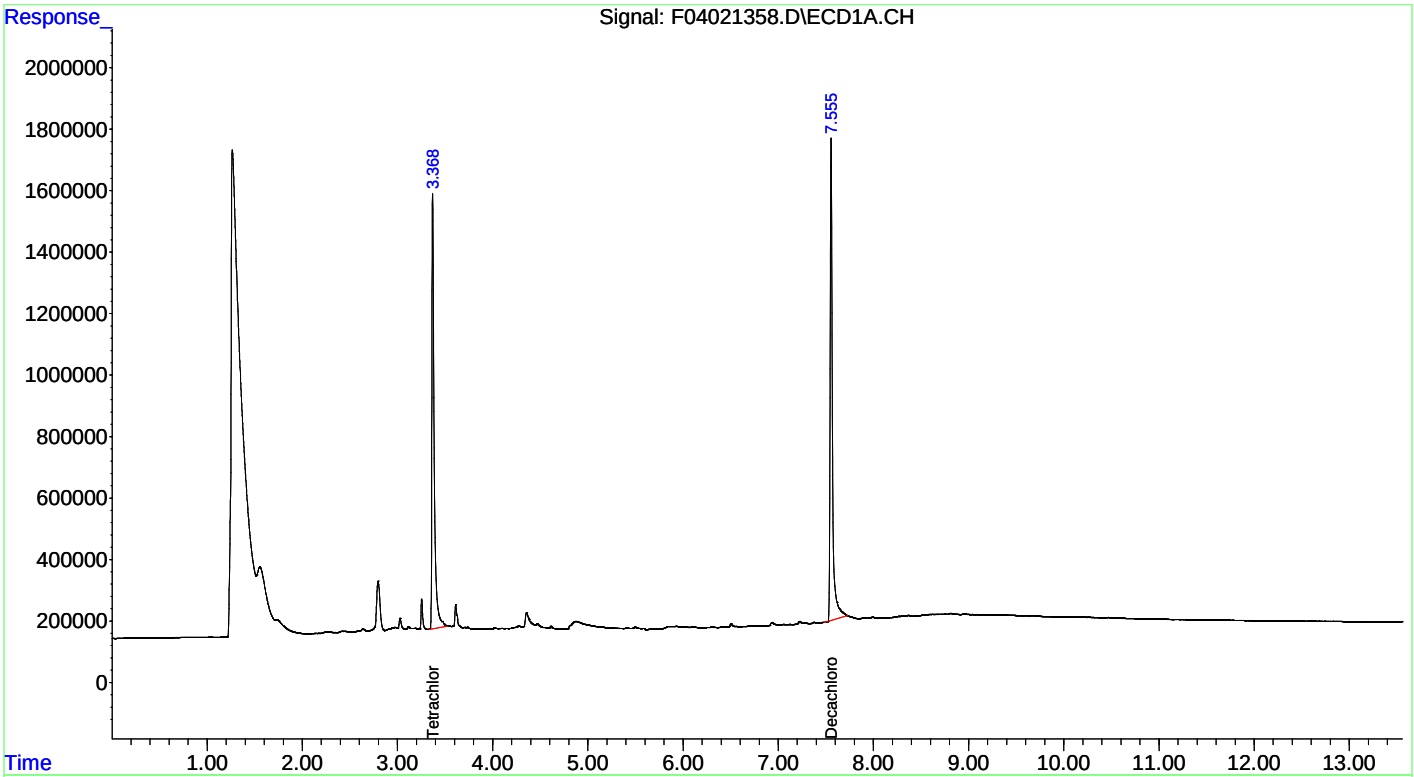
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

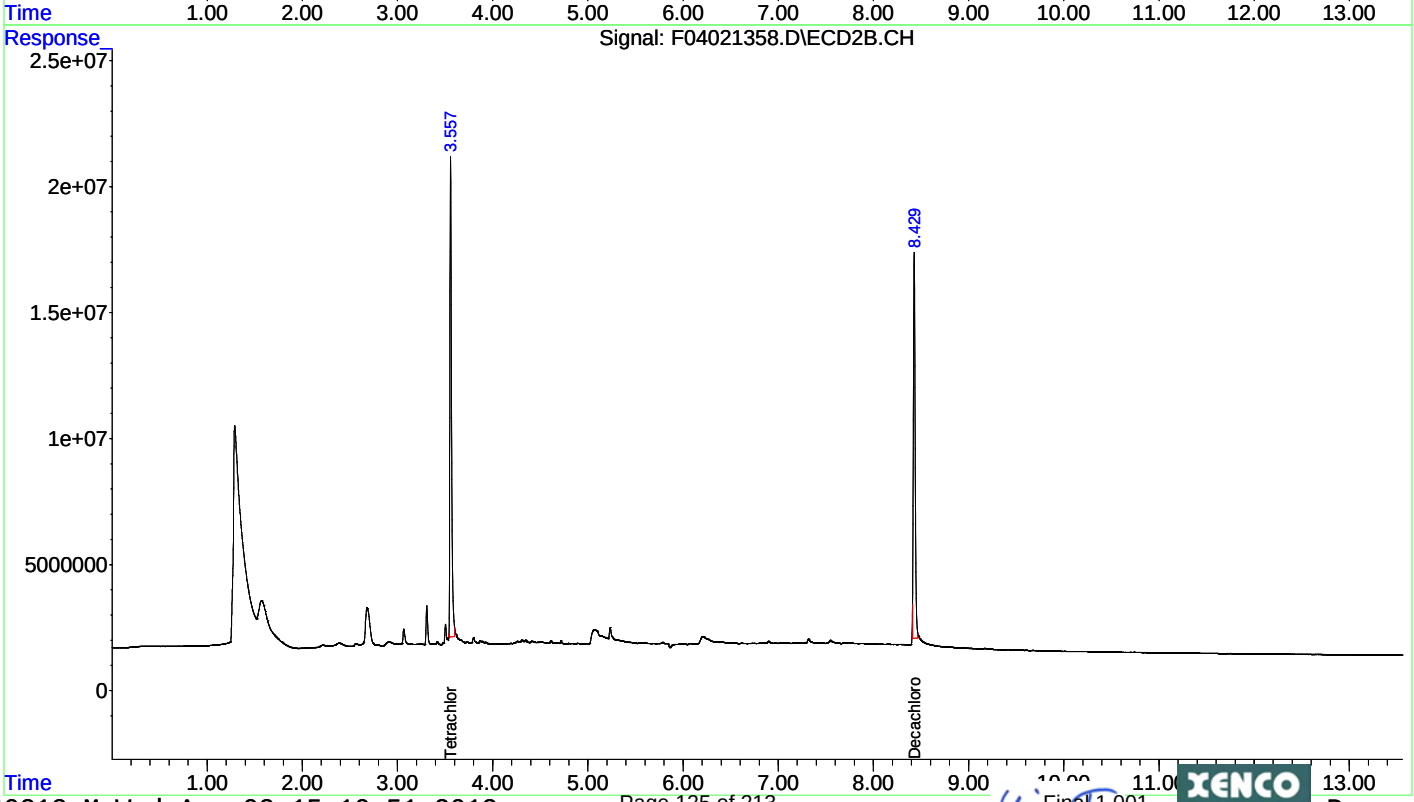
Quantitation Report (Not Reviewed)

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

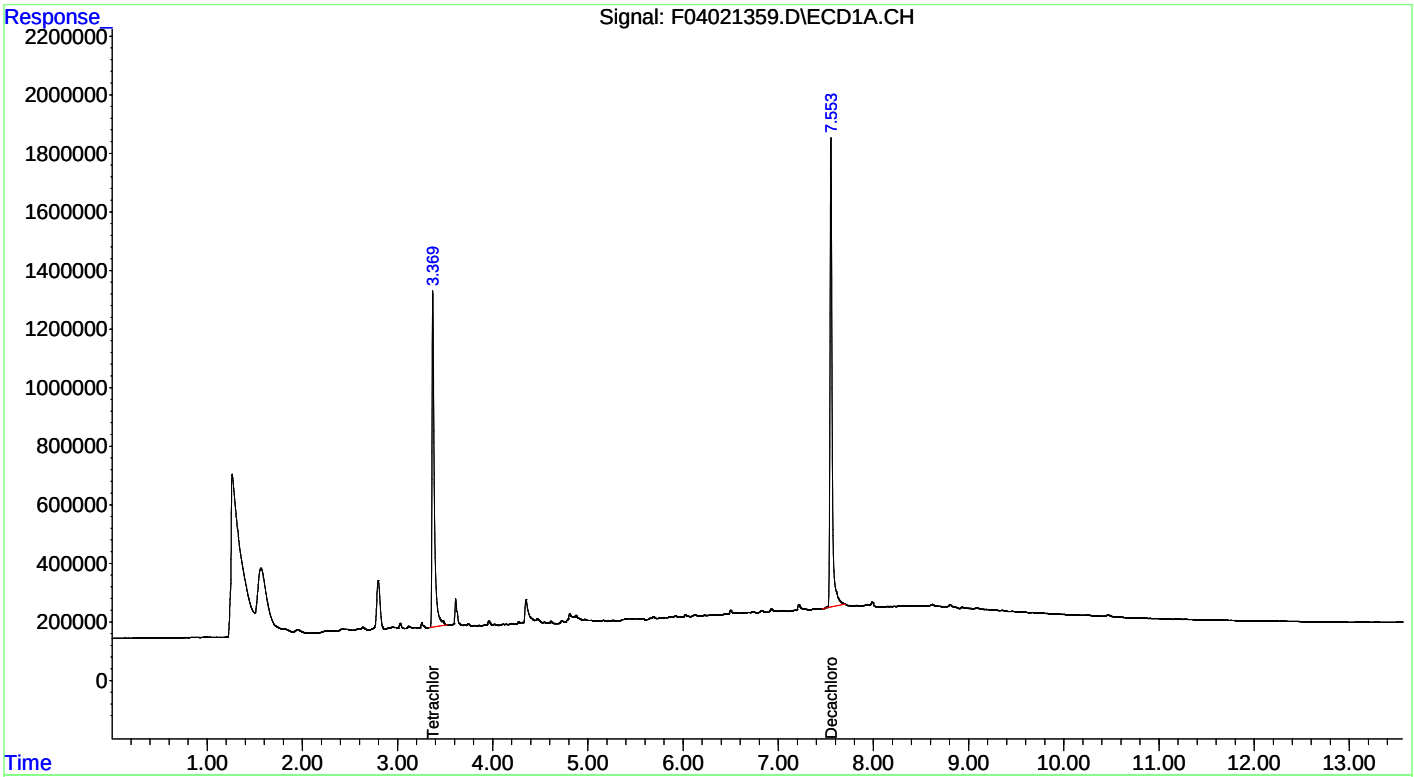
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

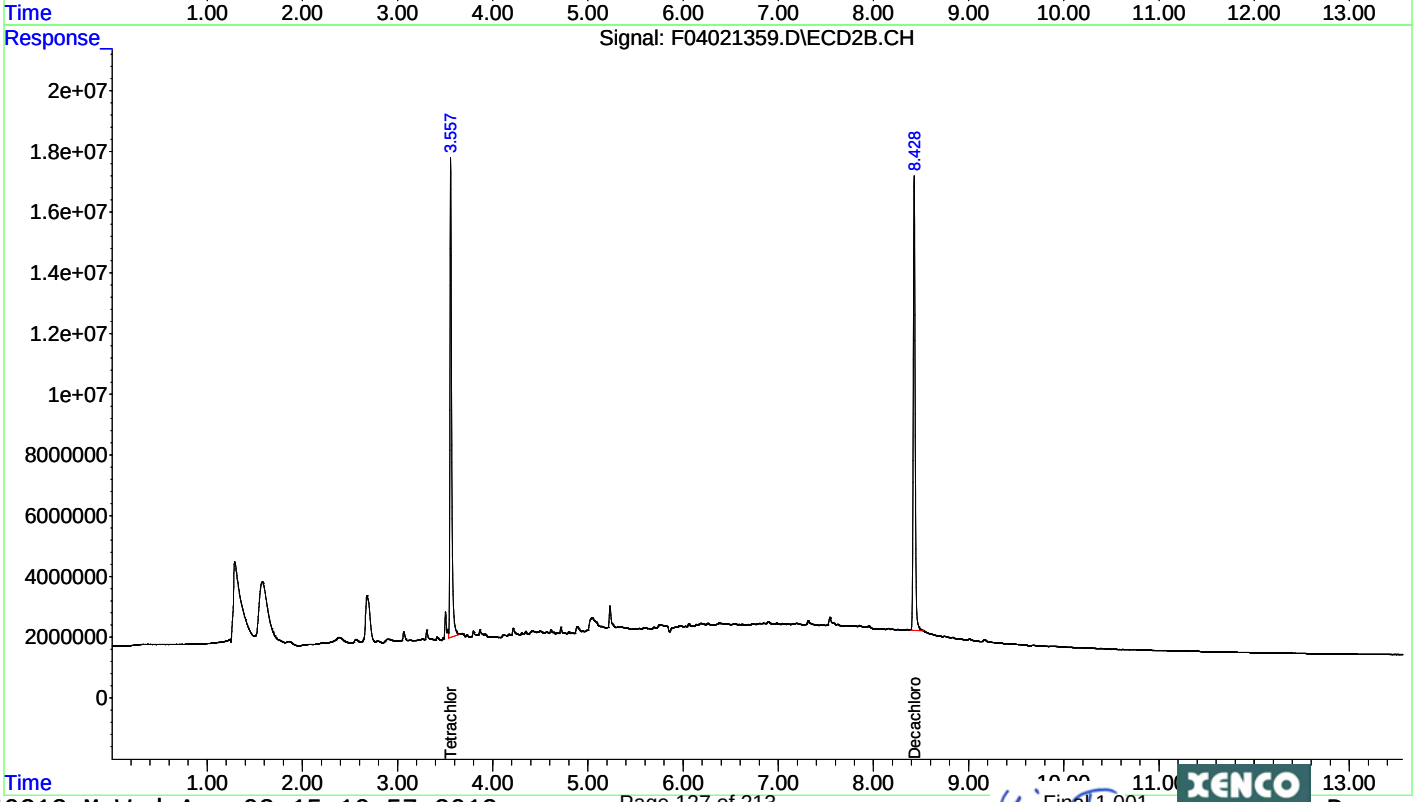
Quantitation Report (Not Reviewed)

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

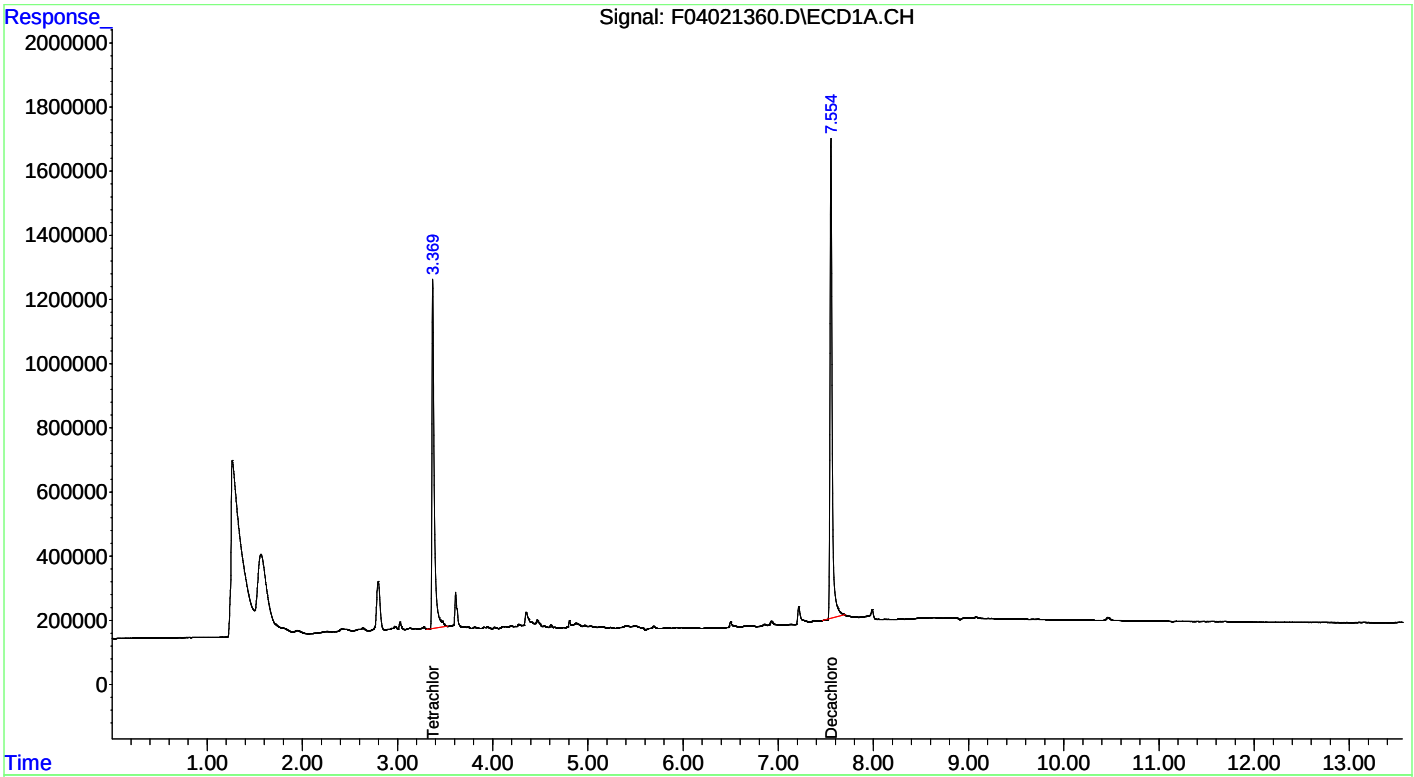
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

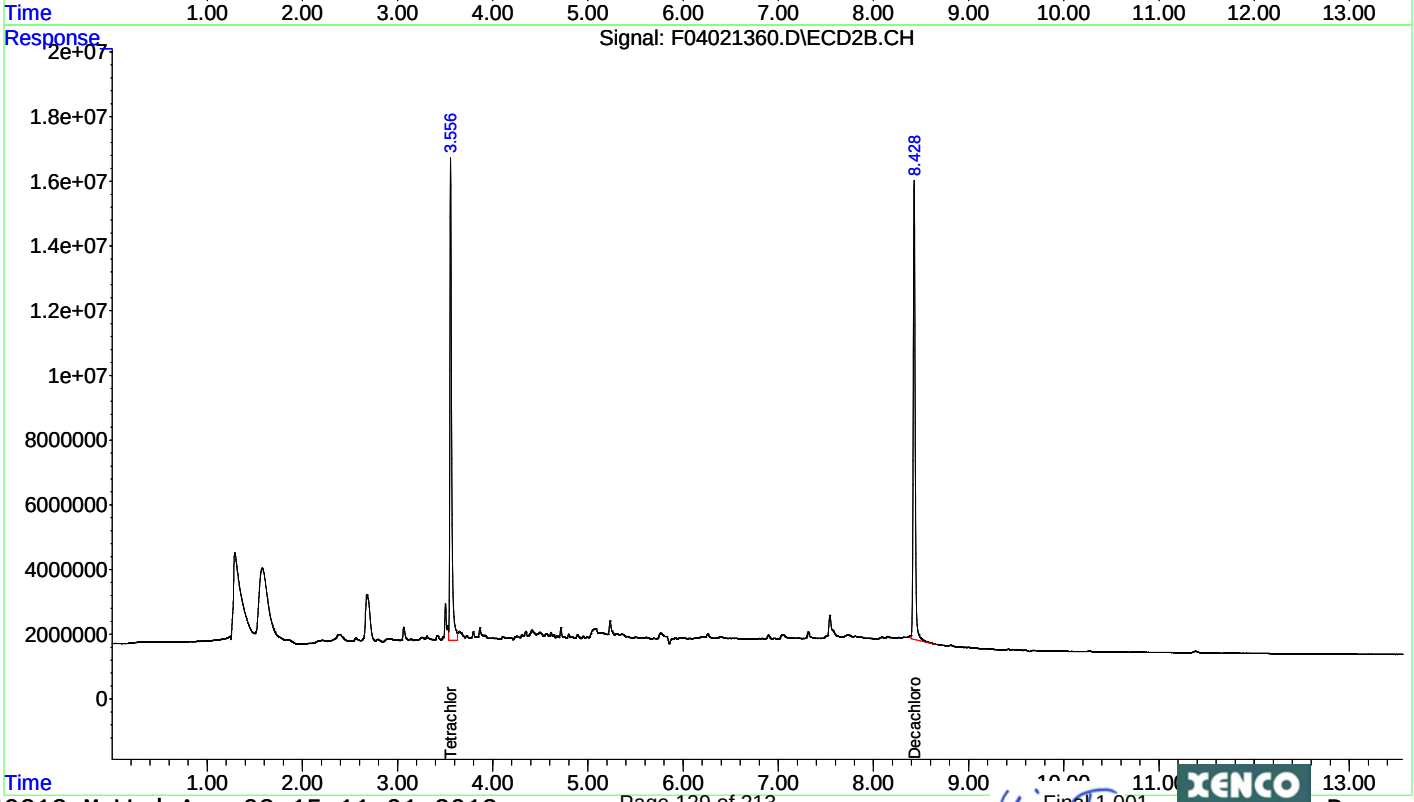
Quantitation Report (Not Reviewed)

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

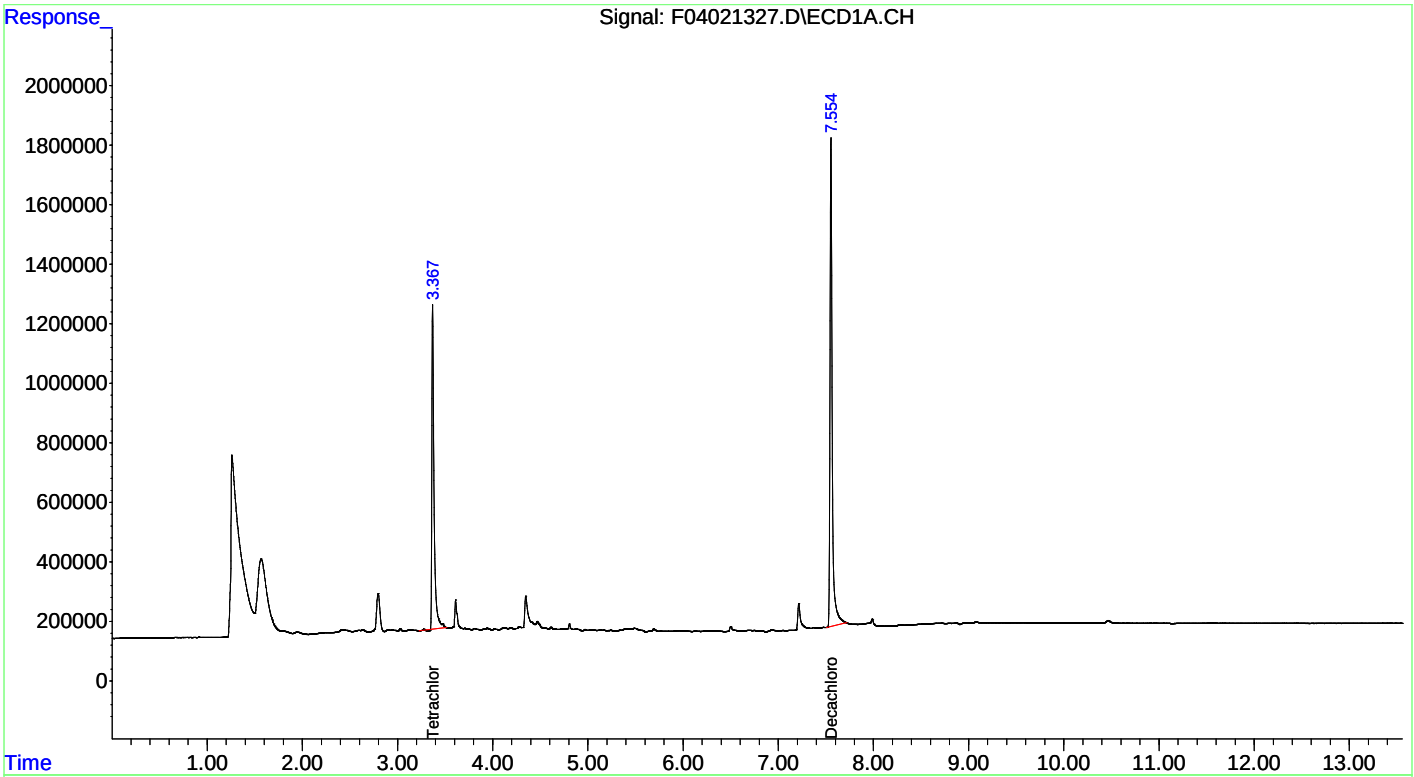
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

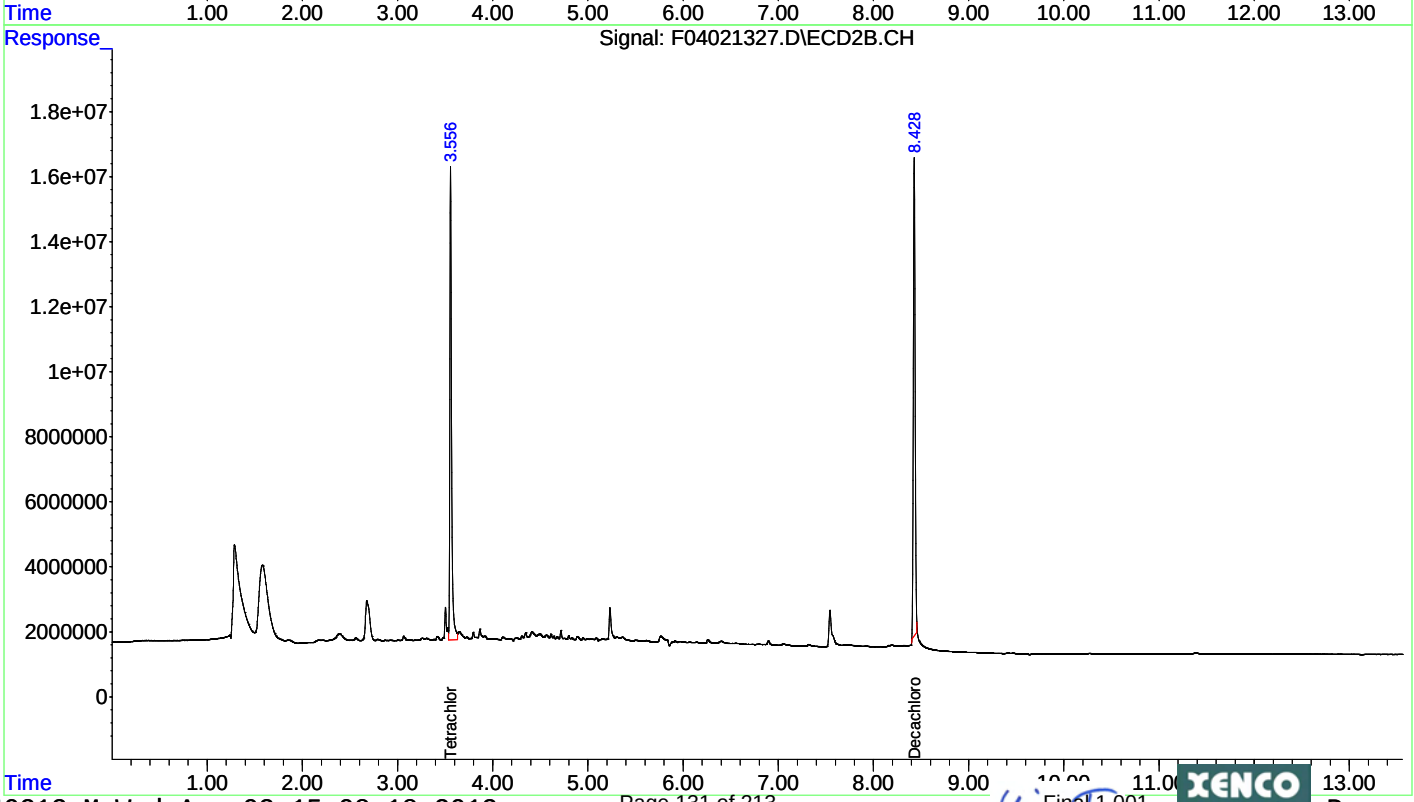
Quantitation Report (Not Reviewed)

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

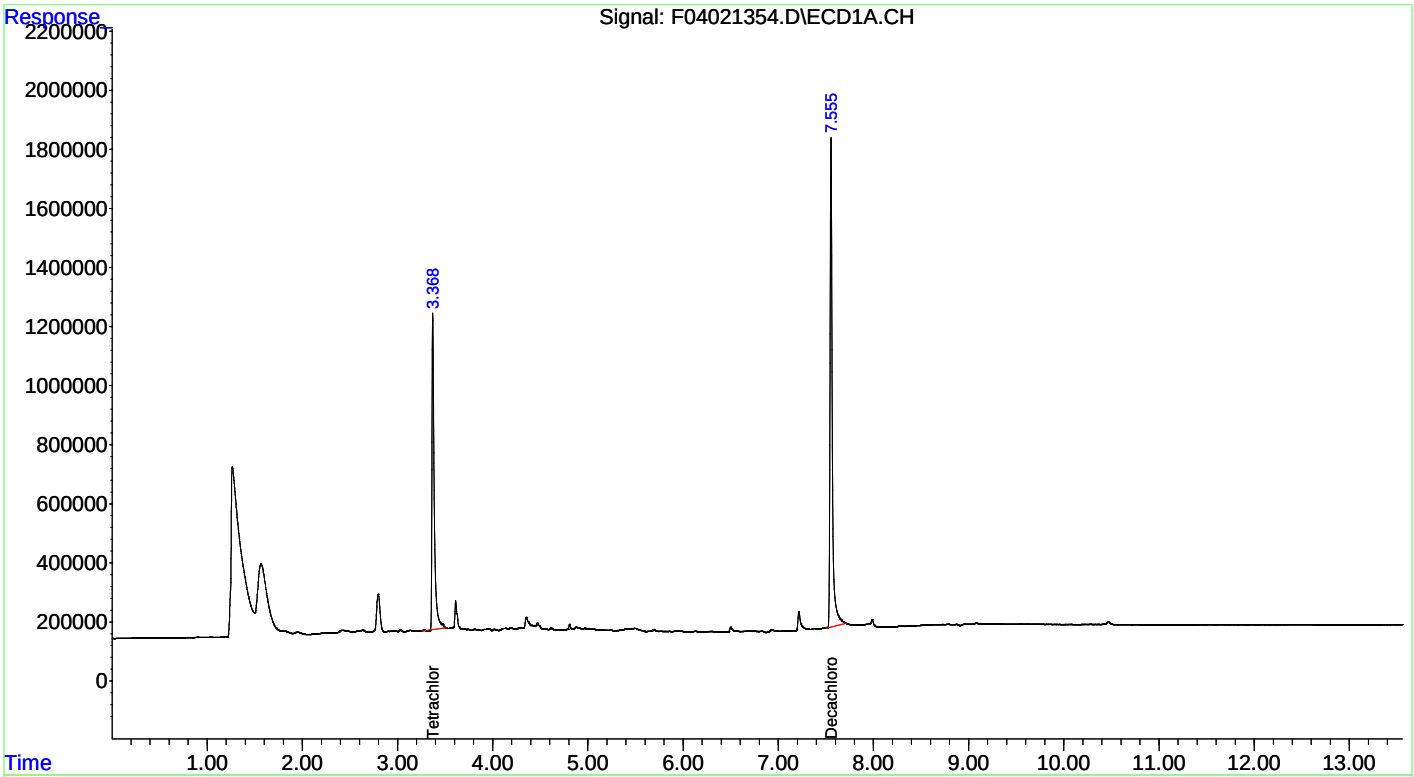
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

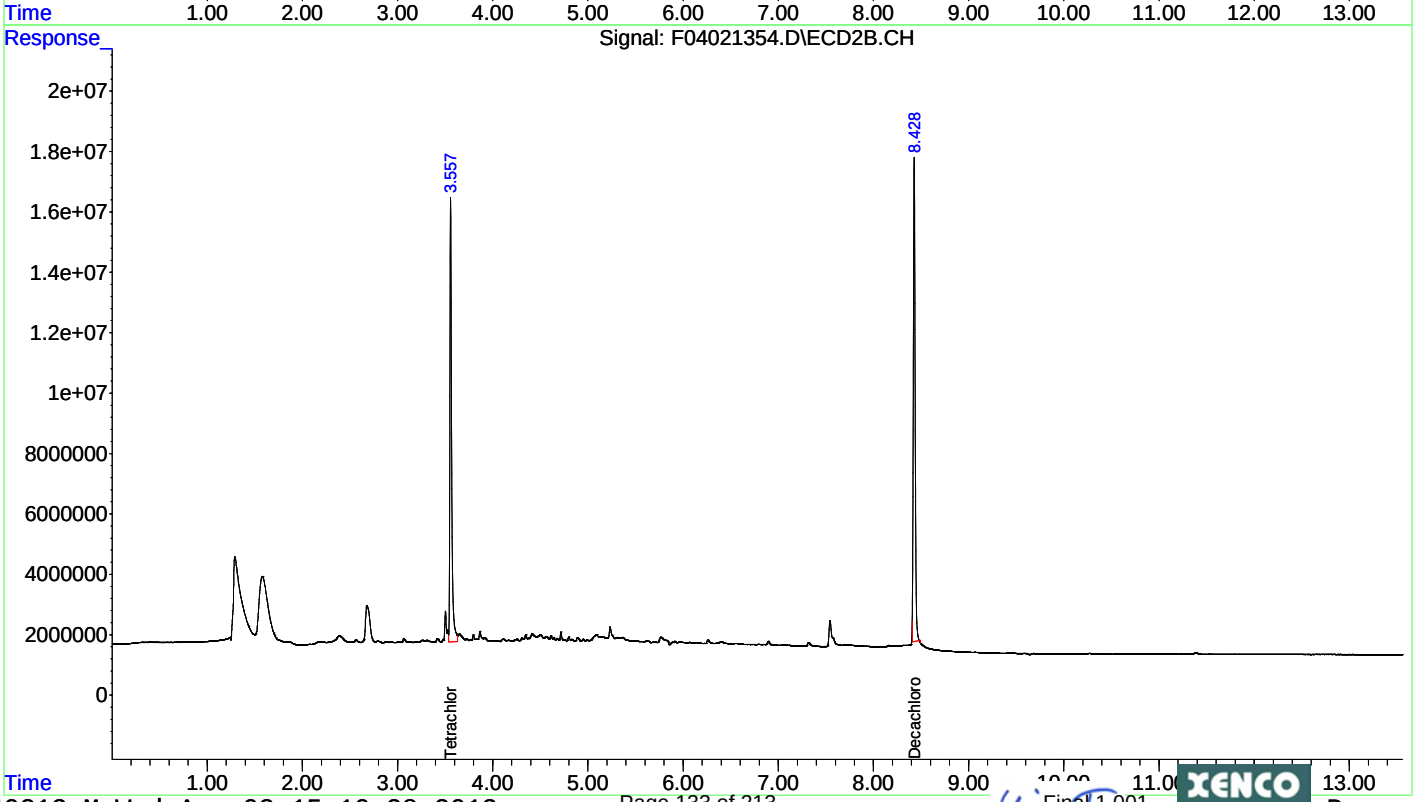
Quantitation Report (Not Reviewed)

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

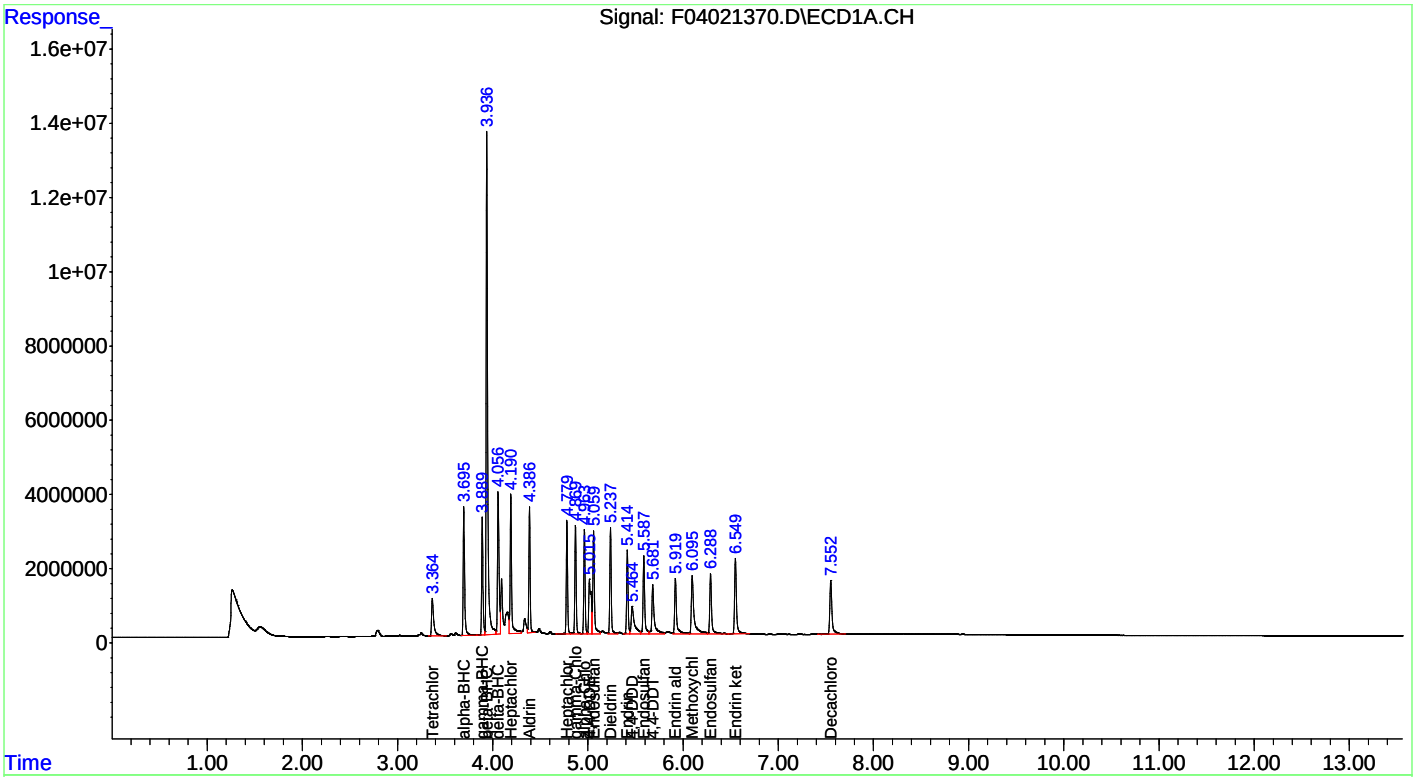
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

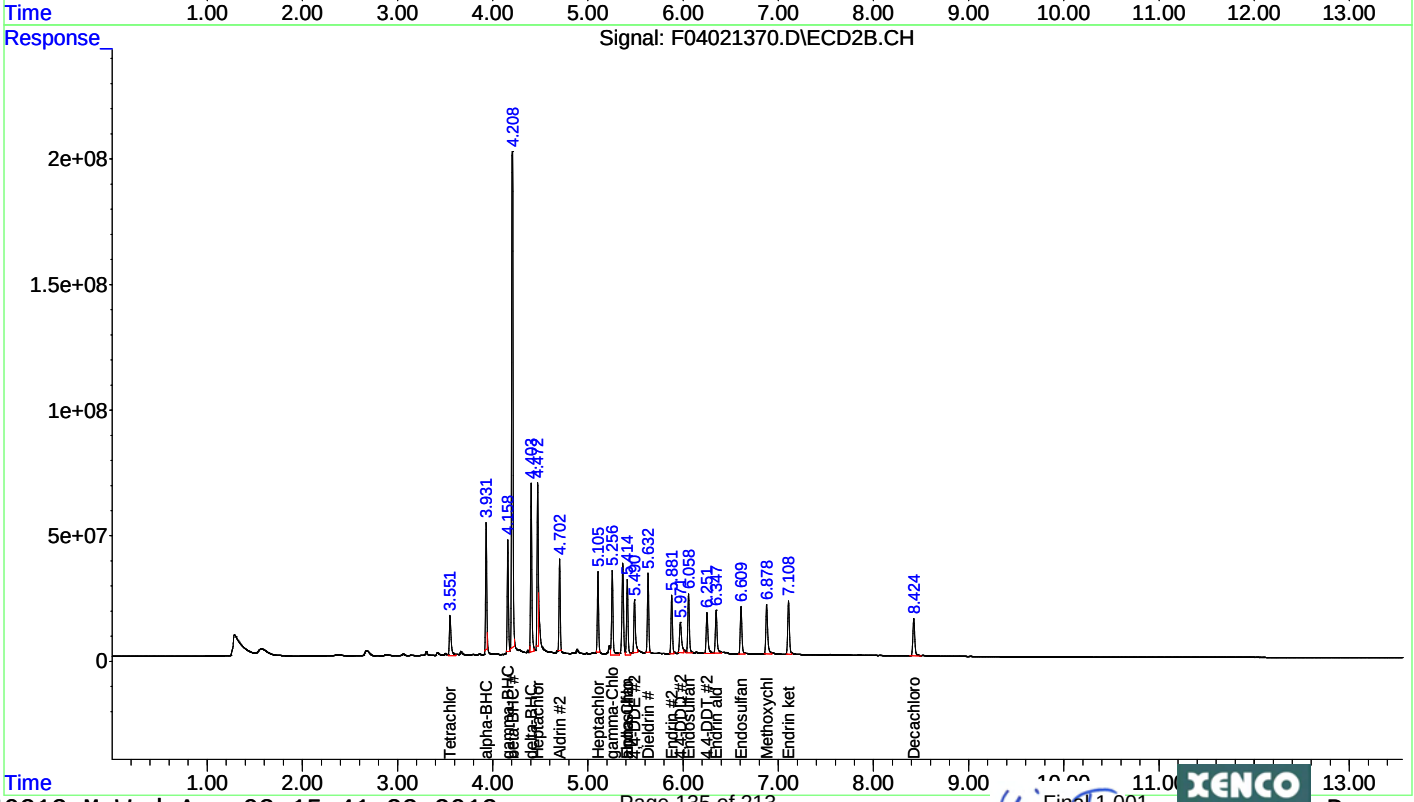
Quantitation Report (Not Reviewed)

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

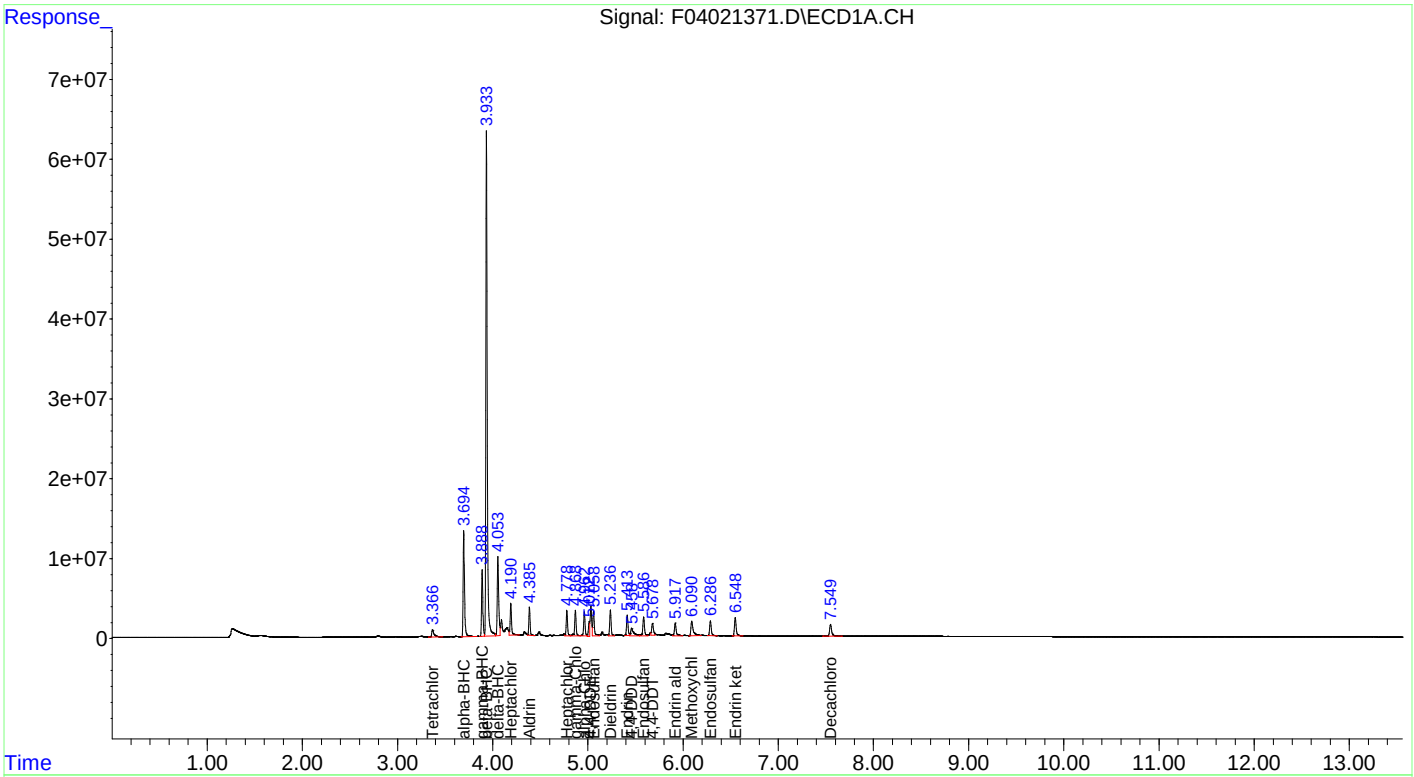
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

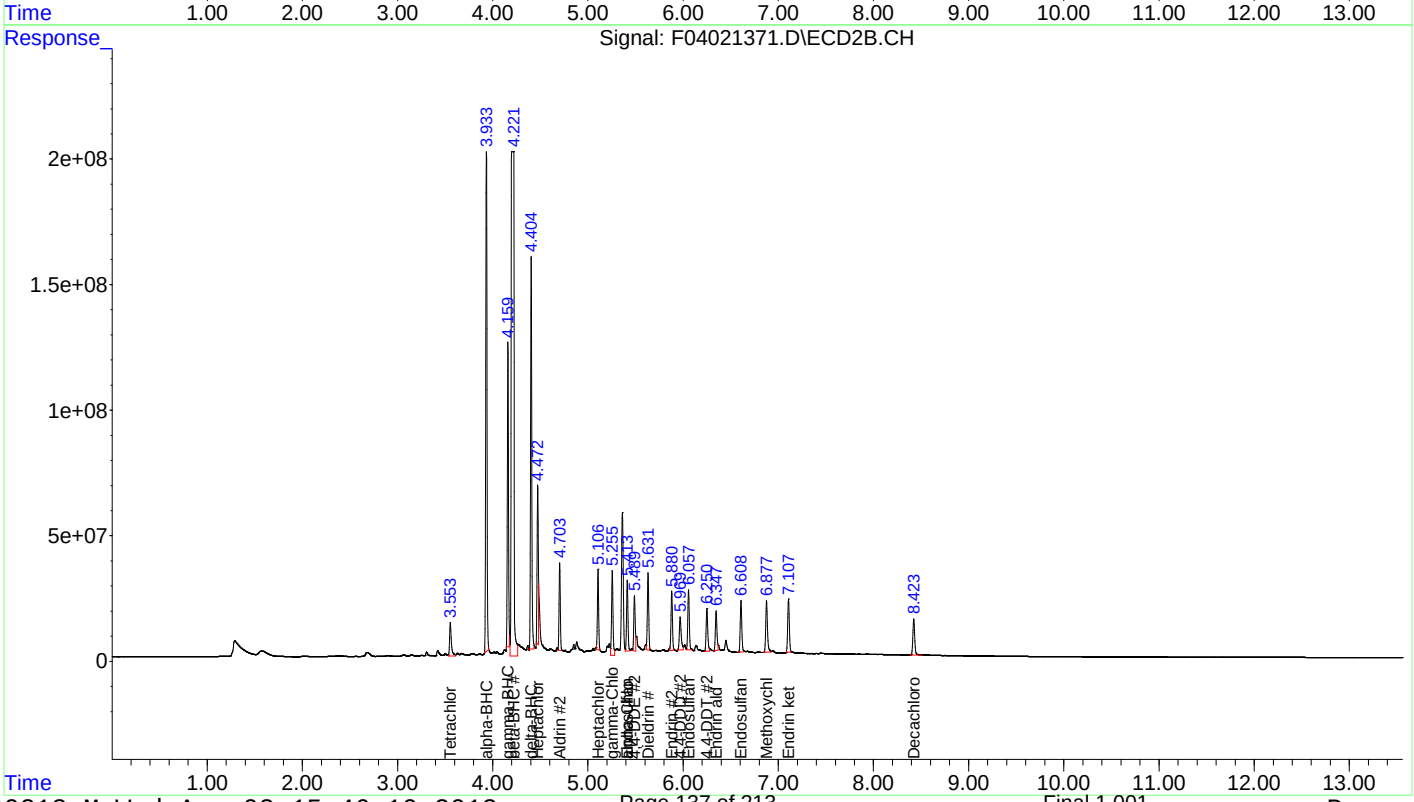
Quantitation Report (Not Reviewed)

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

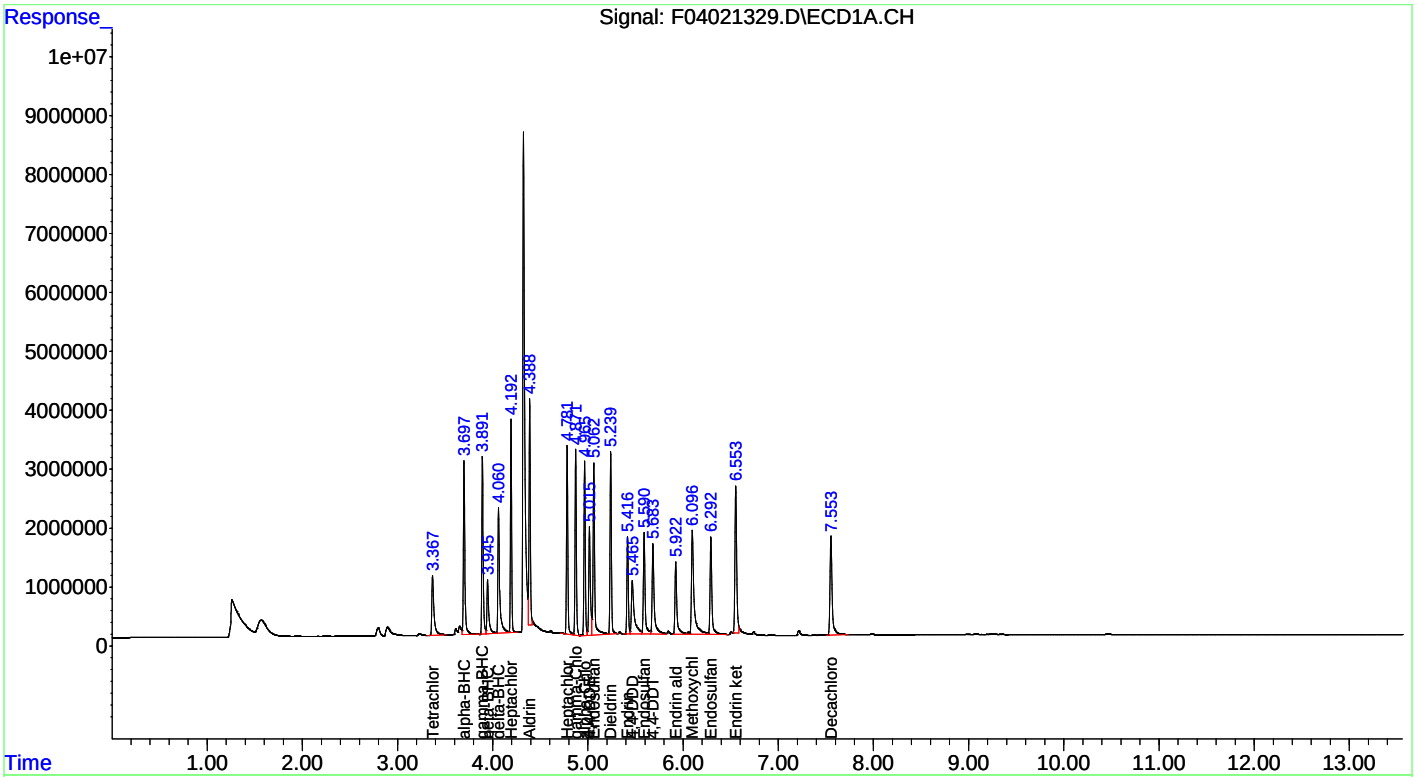
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

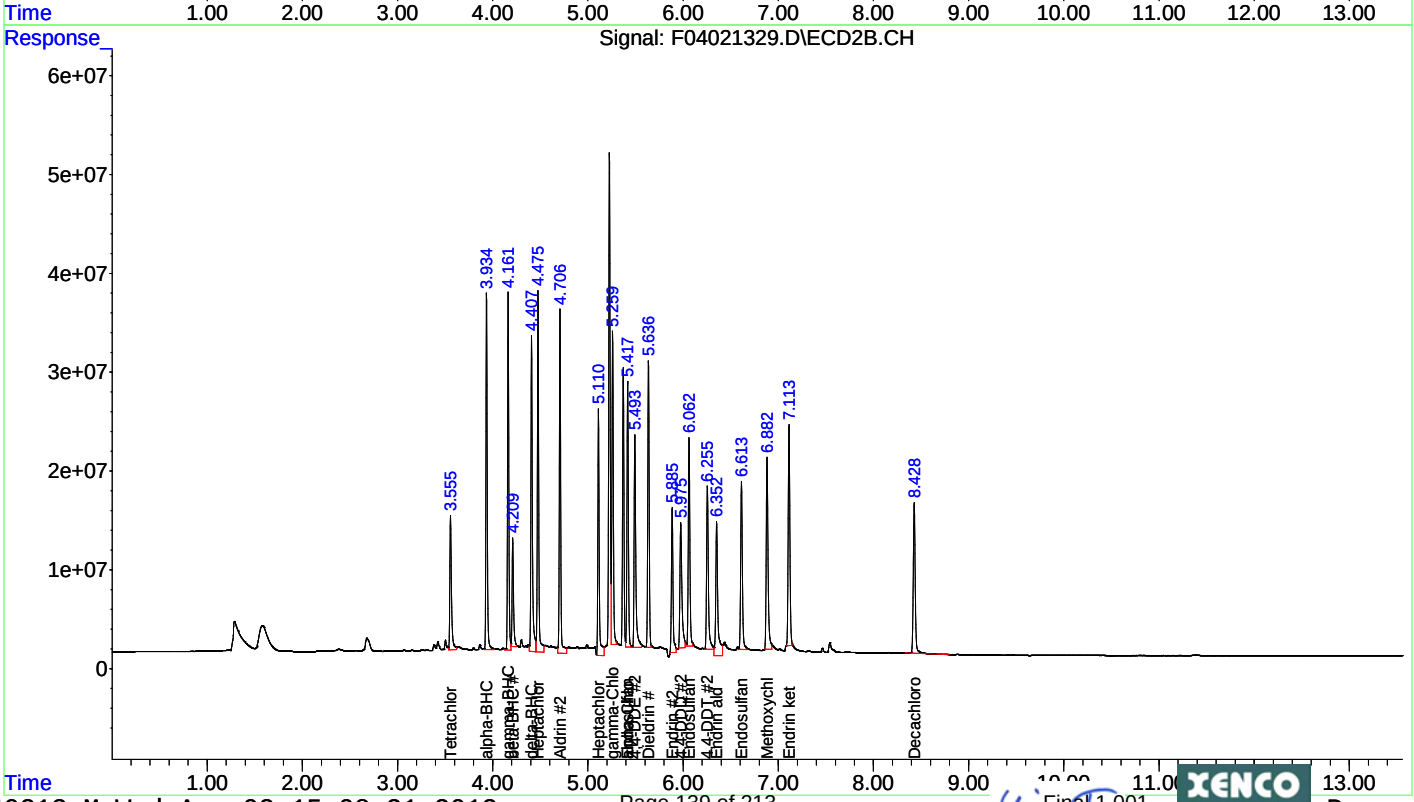
Quantitation Report (Not Reviewed)

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

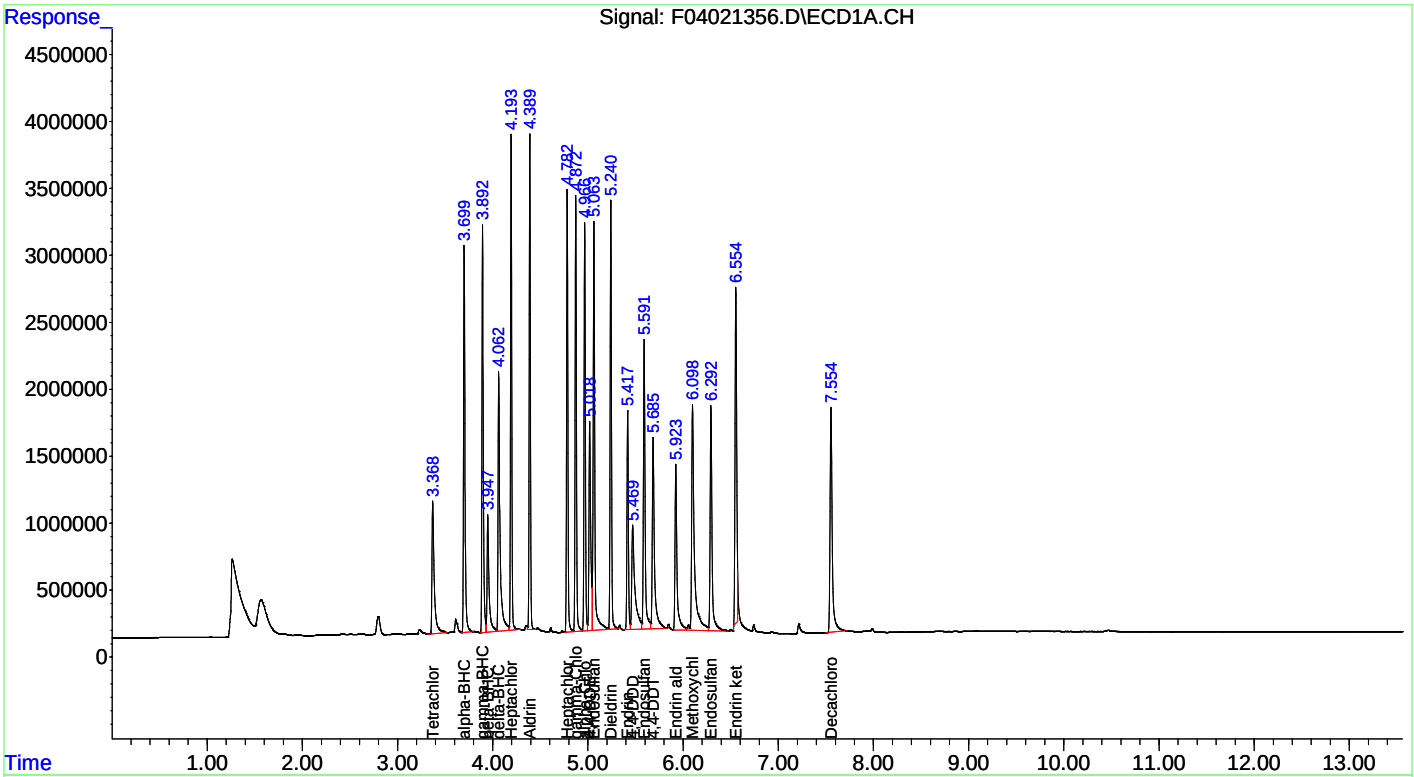
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

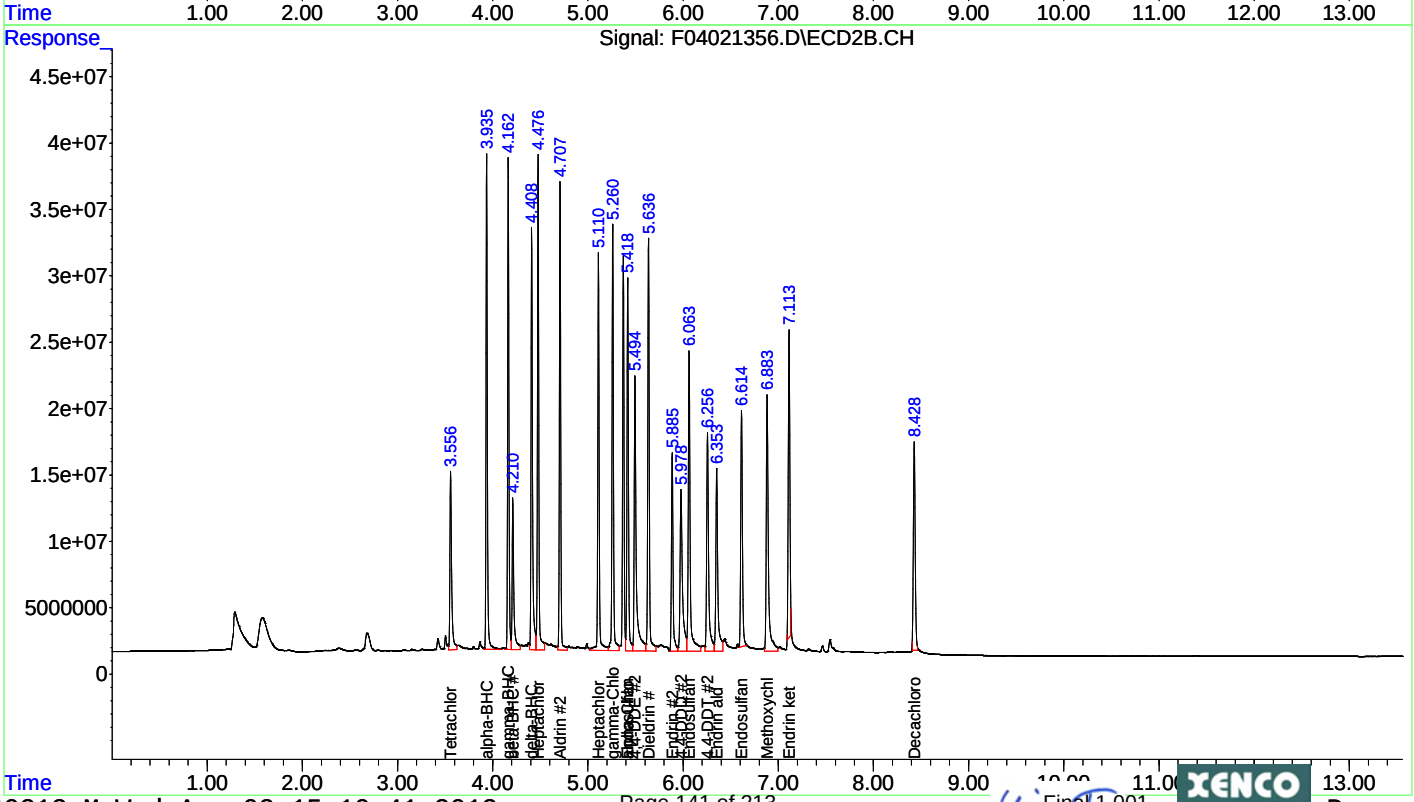
Quantitation Report (Not Reviewed)

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

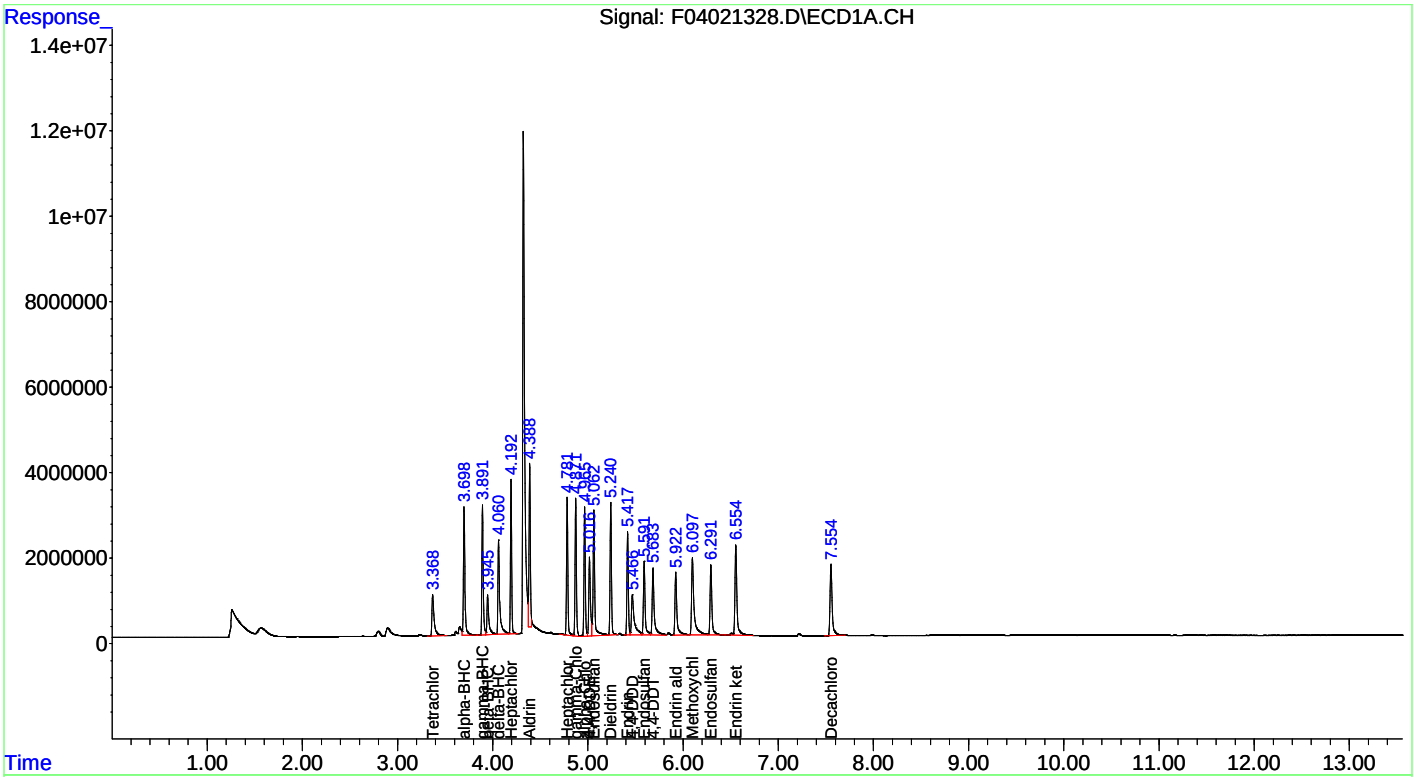
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

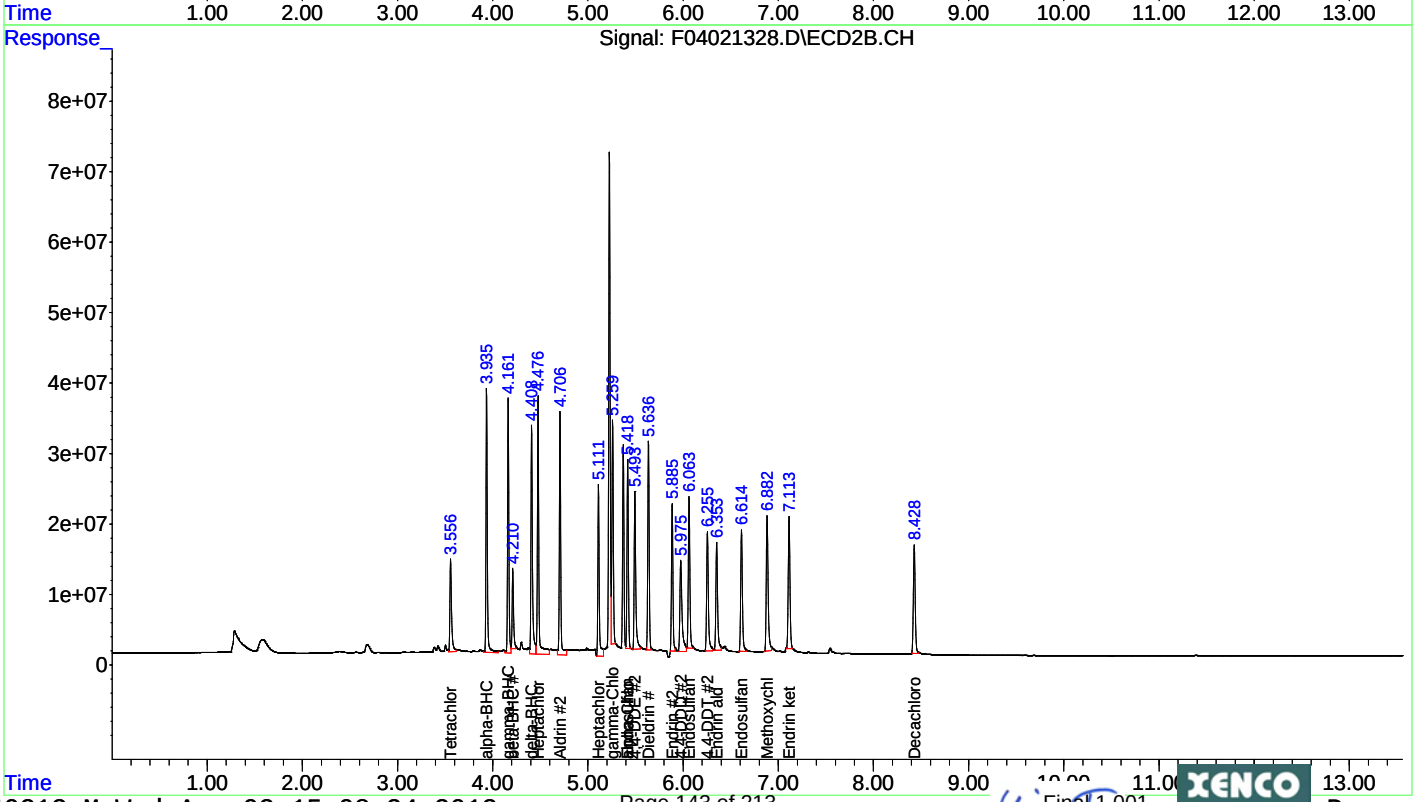
Quantitation Report (Not Reviewed)

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

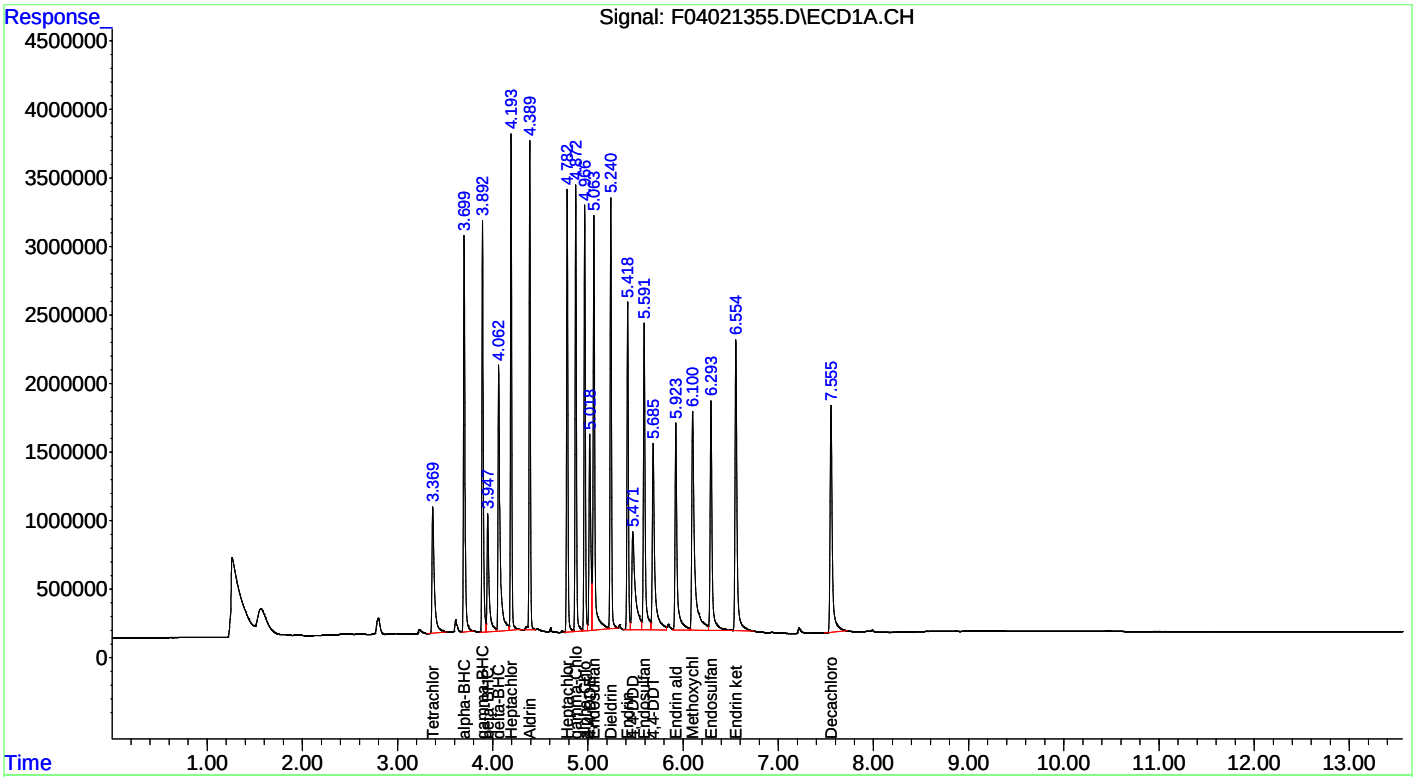
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

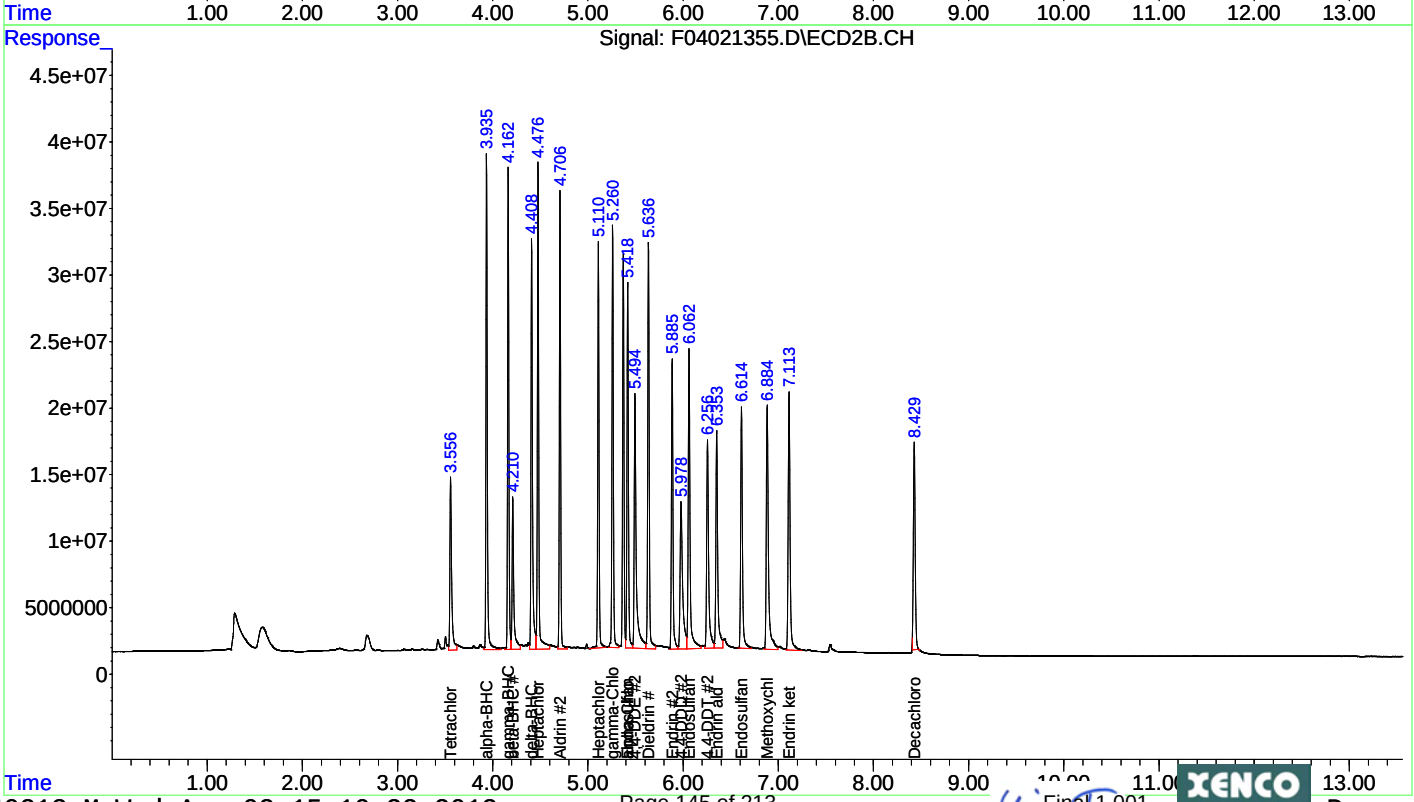
Quantitation Report (Not Reviewed)

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

$$\frac{\text{Endrin Aldehyde+Endrin Ketone}}{\text{Endrin+Endrin Aldehyde+Endrin Ketone}} \times 100 = \mathbf{4.70\%}$$

***DDT % Breakdown**
Col. 1- RtxCLPesticides

$$\frac{\text{4,4-DDE+4,4-DDD}}{\text{4,4-DDT+4,4-DDD+4,4-DDE}} \times 100 = \mathbf{3.93\%}$$

***Endrin % Breakdown**
Col. 1- RtxCLPesticidesII

$$\frac{\text{Endrin Aldehyde+Endrin Ketone}}{\text{Endrin+Endrin Aldehyde+Endrin Ketone}} \times 100 = \mathbf{5.49\%}$$

Col. 1- RtxCLPesticidesII

$$\frac{\text{4,4-DDE+4,4-DDD}}{\text{4,4-DDT+4,4-DDD+4,4-DDE}} \times 100 = \mathbf{6.04\%}$$

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

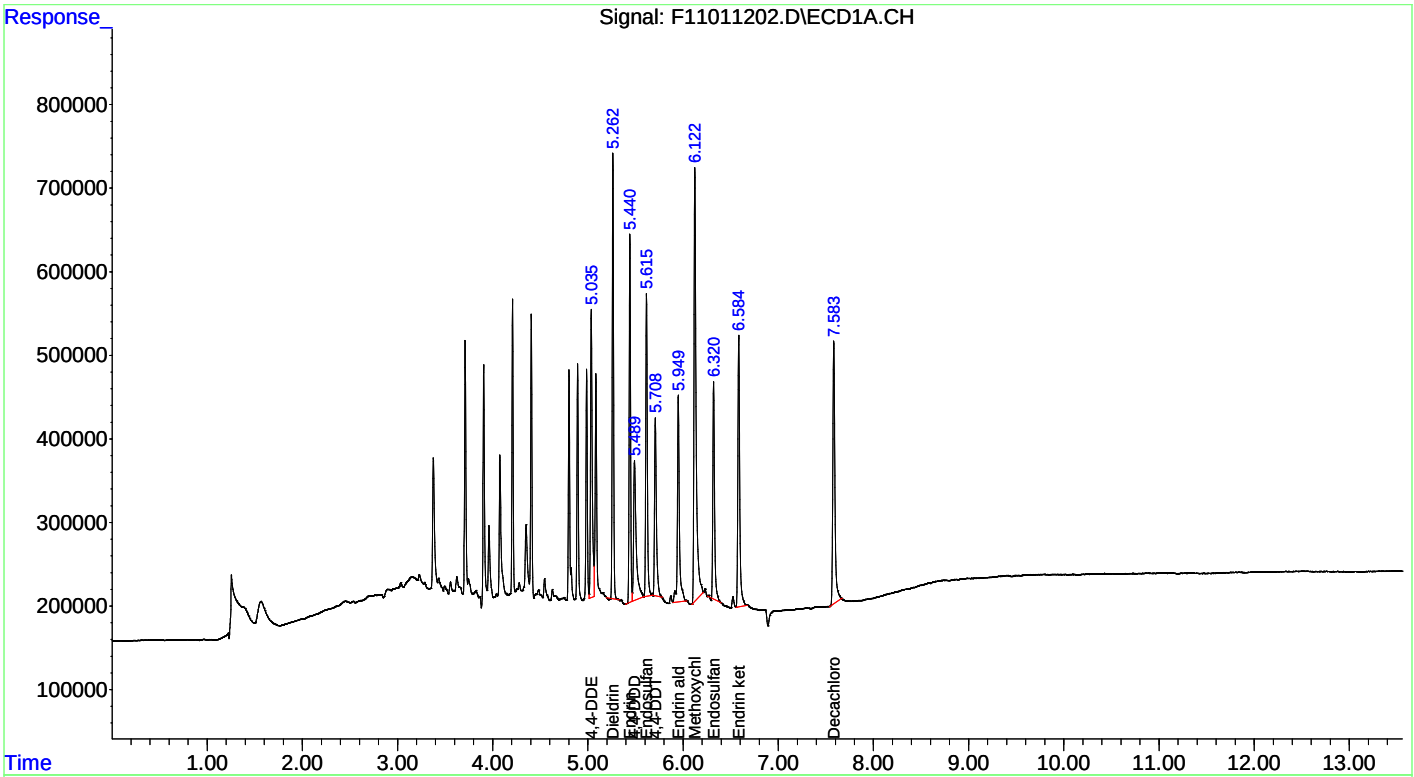
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

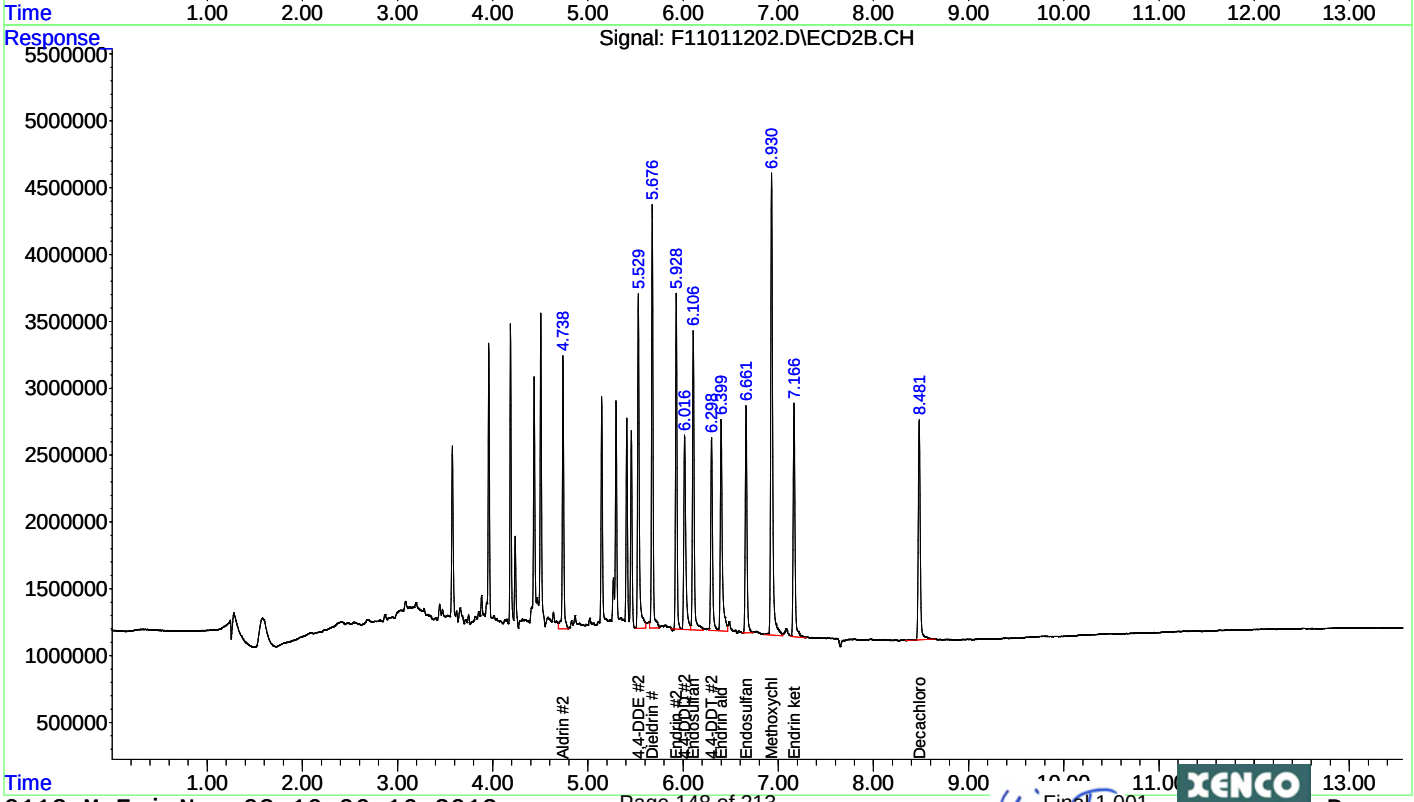
Quantitation Report (Not Reviewed)

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



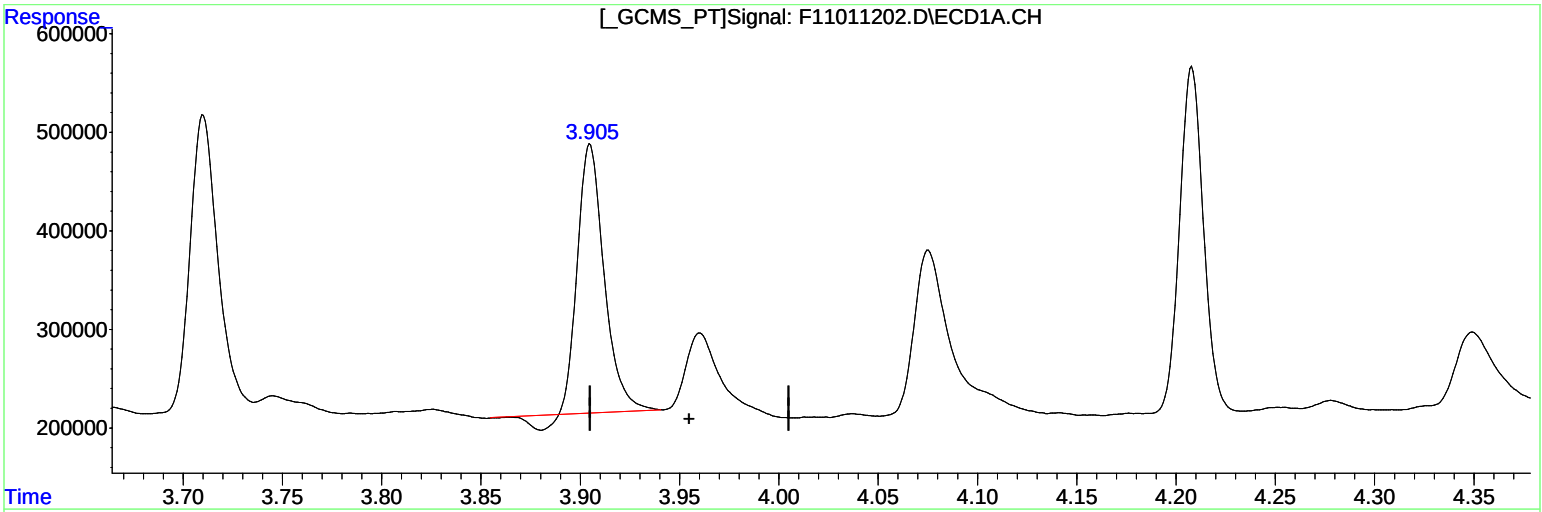


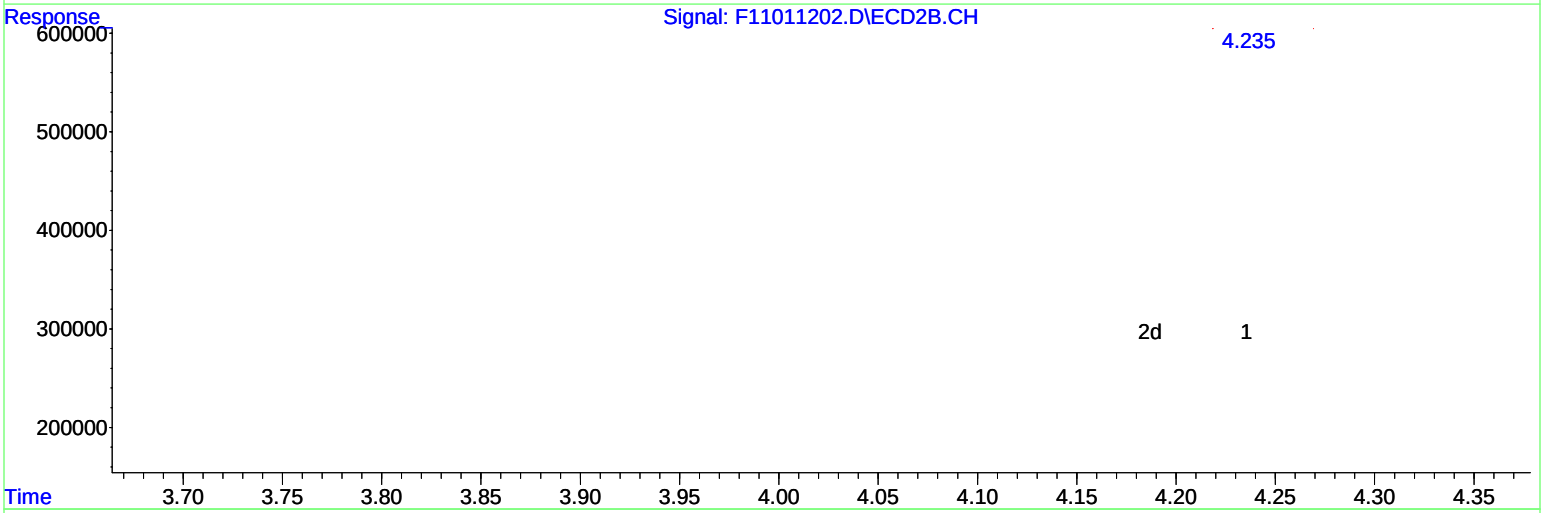
Quantitation Report (Qedit)

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





(3) beta-BHC (T)

3.905min 10.083ug/l

response 2468816

(3) beta-BHC #2 (T)

4.236min 4.581ug/l

response 7264350

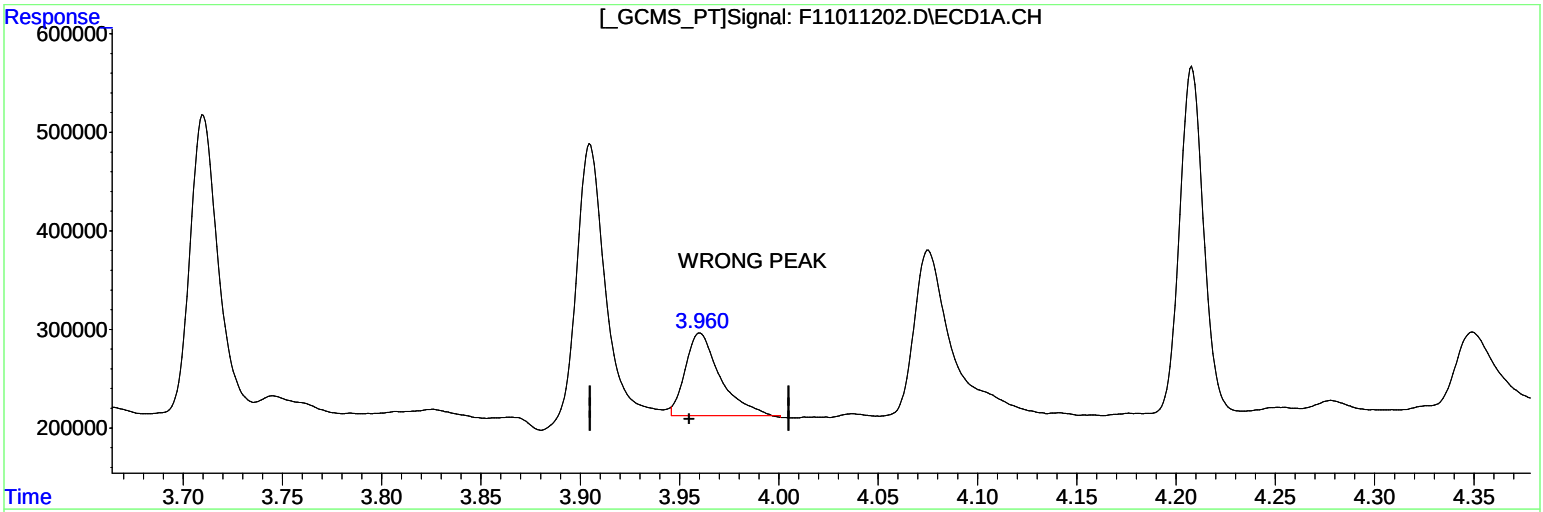
(+) = Expected Retention Time

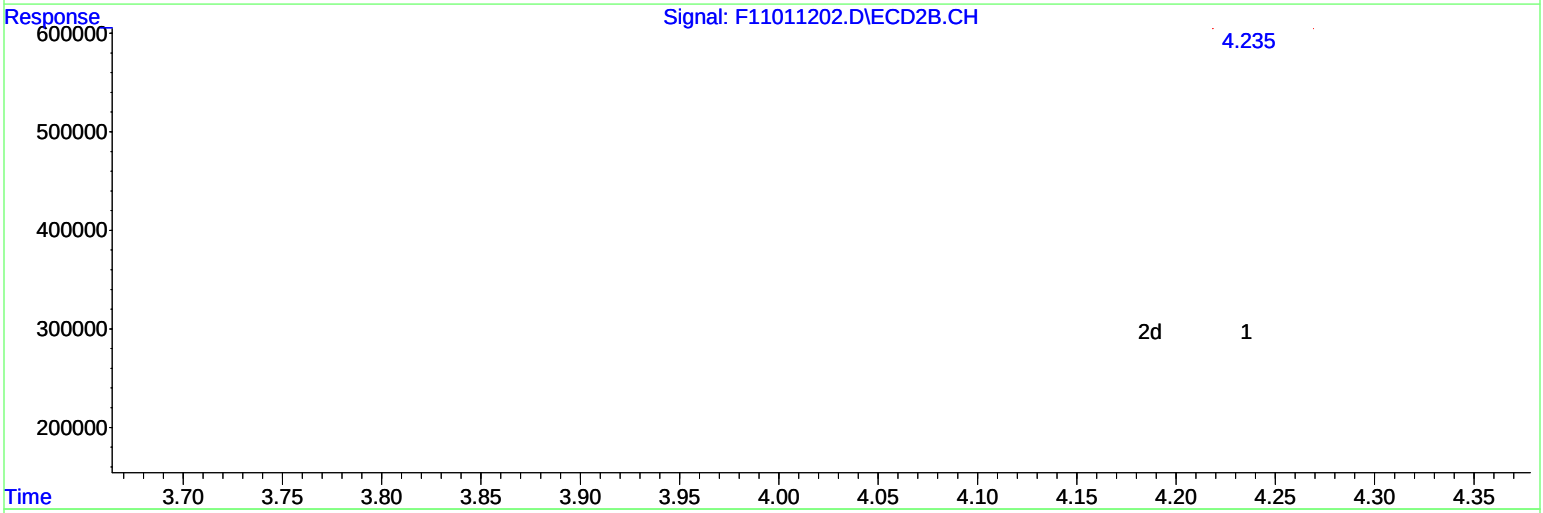
Quantitation Report (Qedit)

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





(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

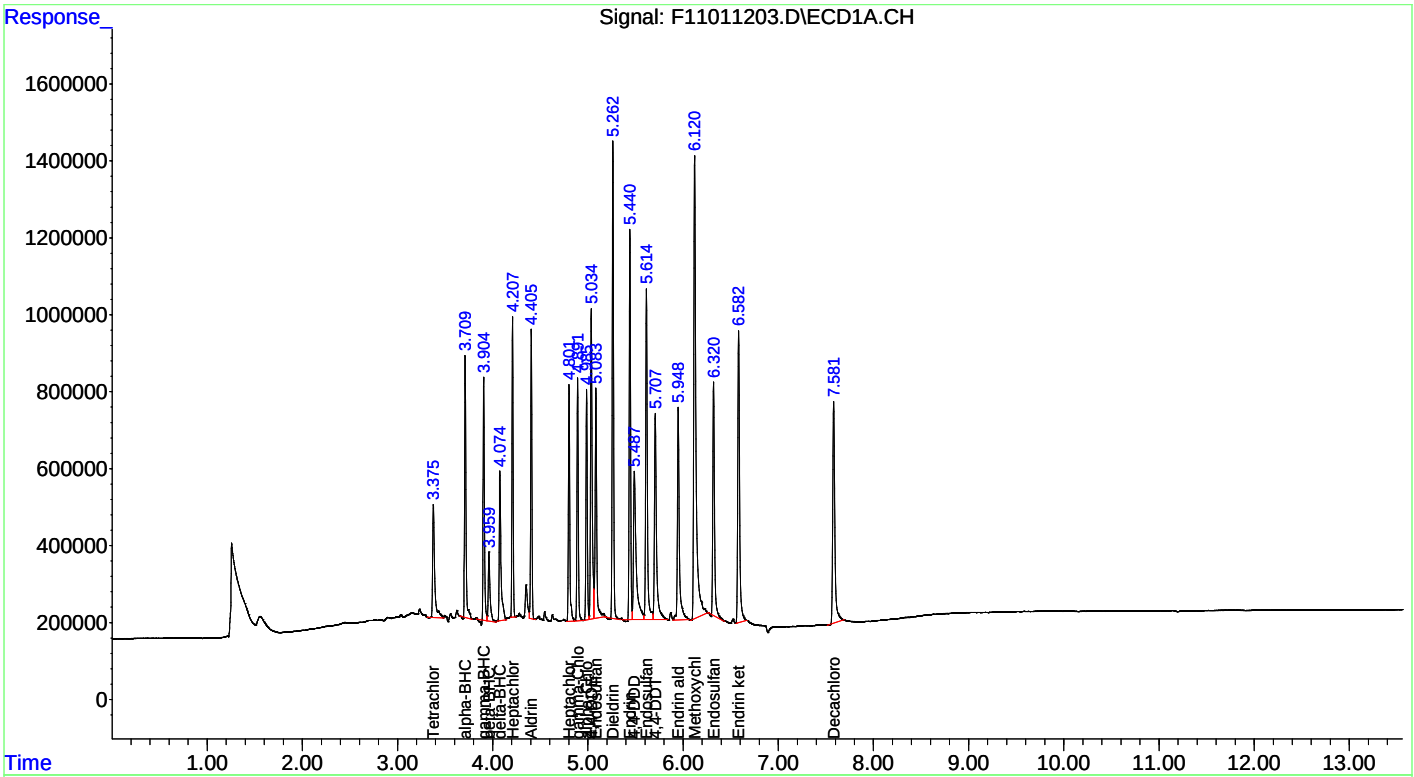
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

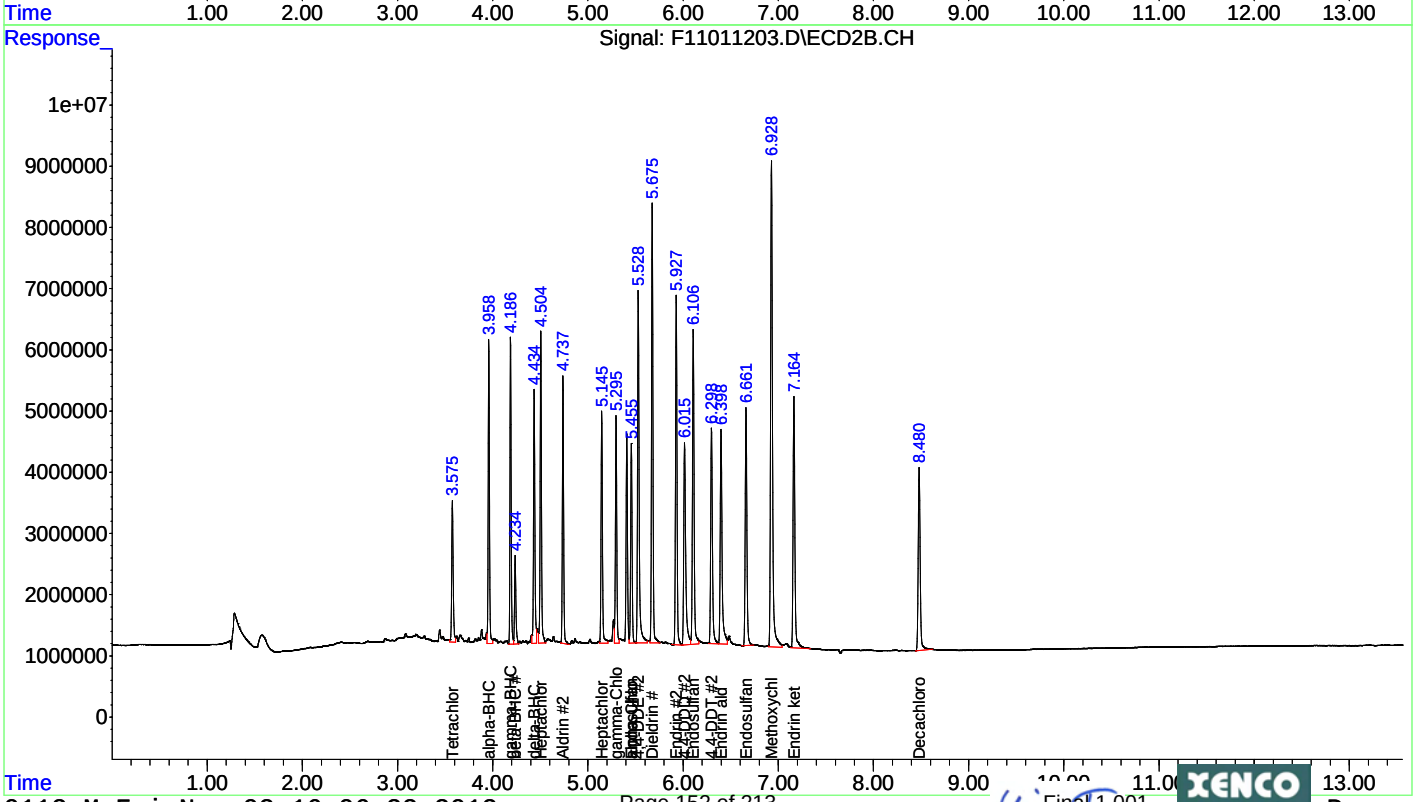
Quantitation Report (Not Reviewed)

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

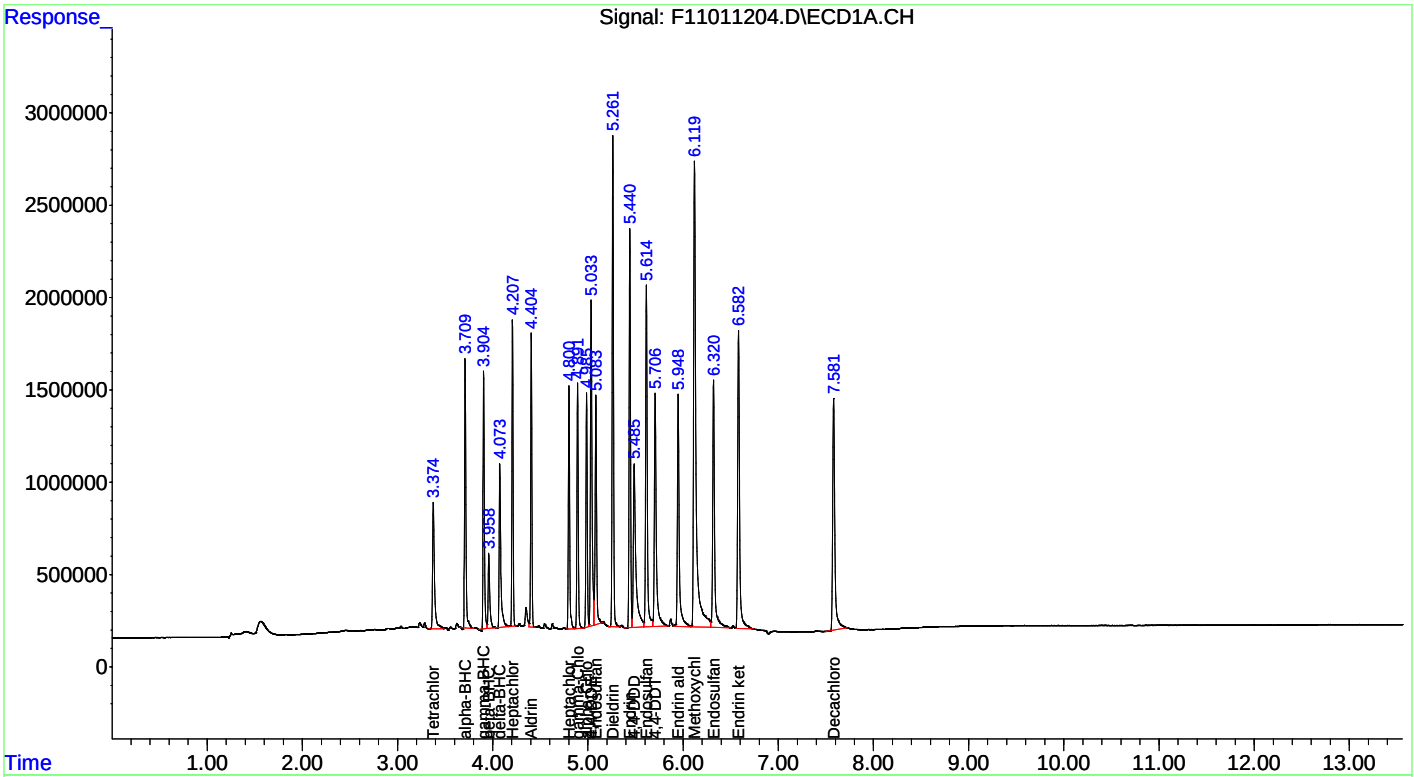
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

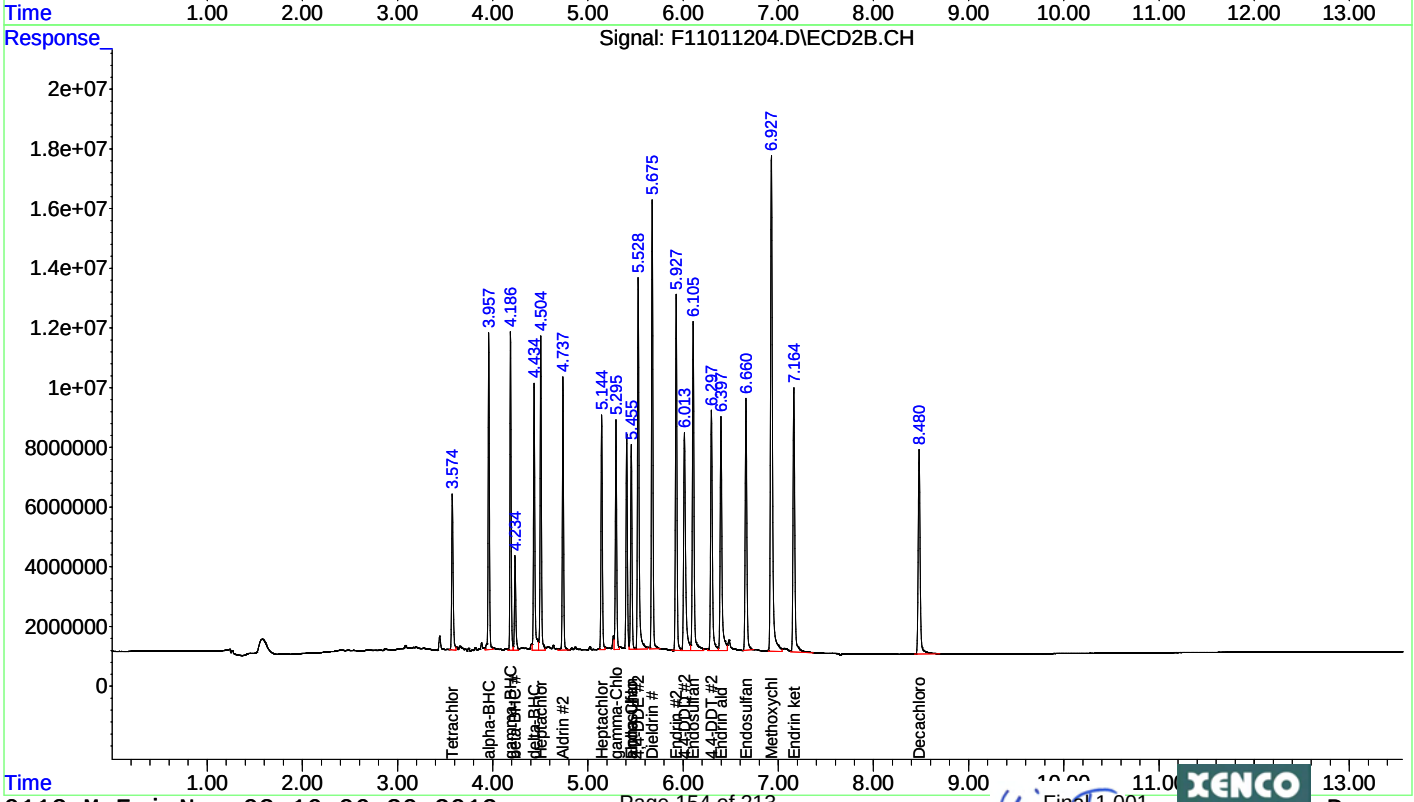
Quantitation Report (Not Reviewed)

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

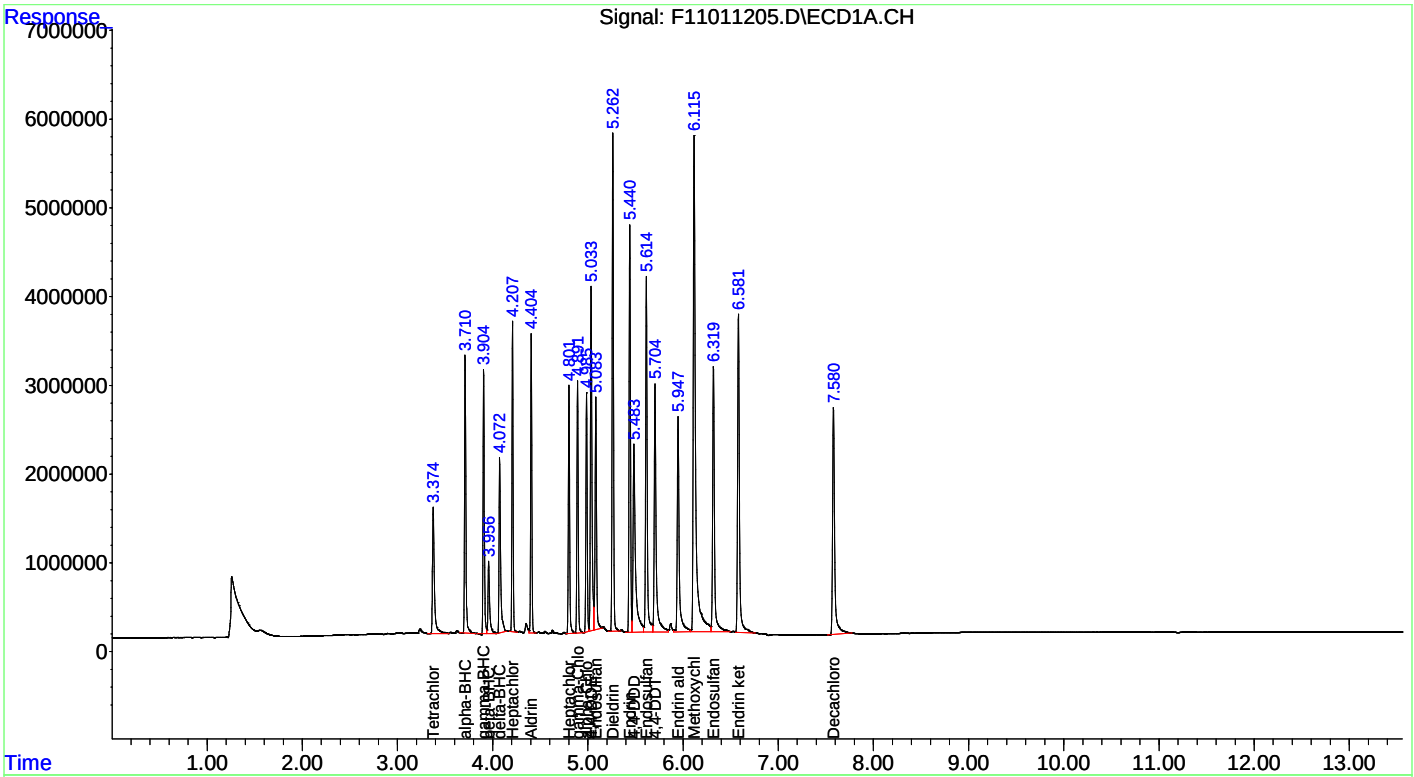
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

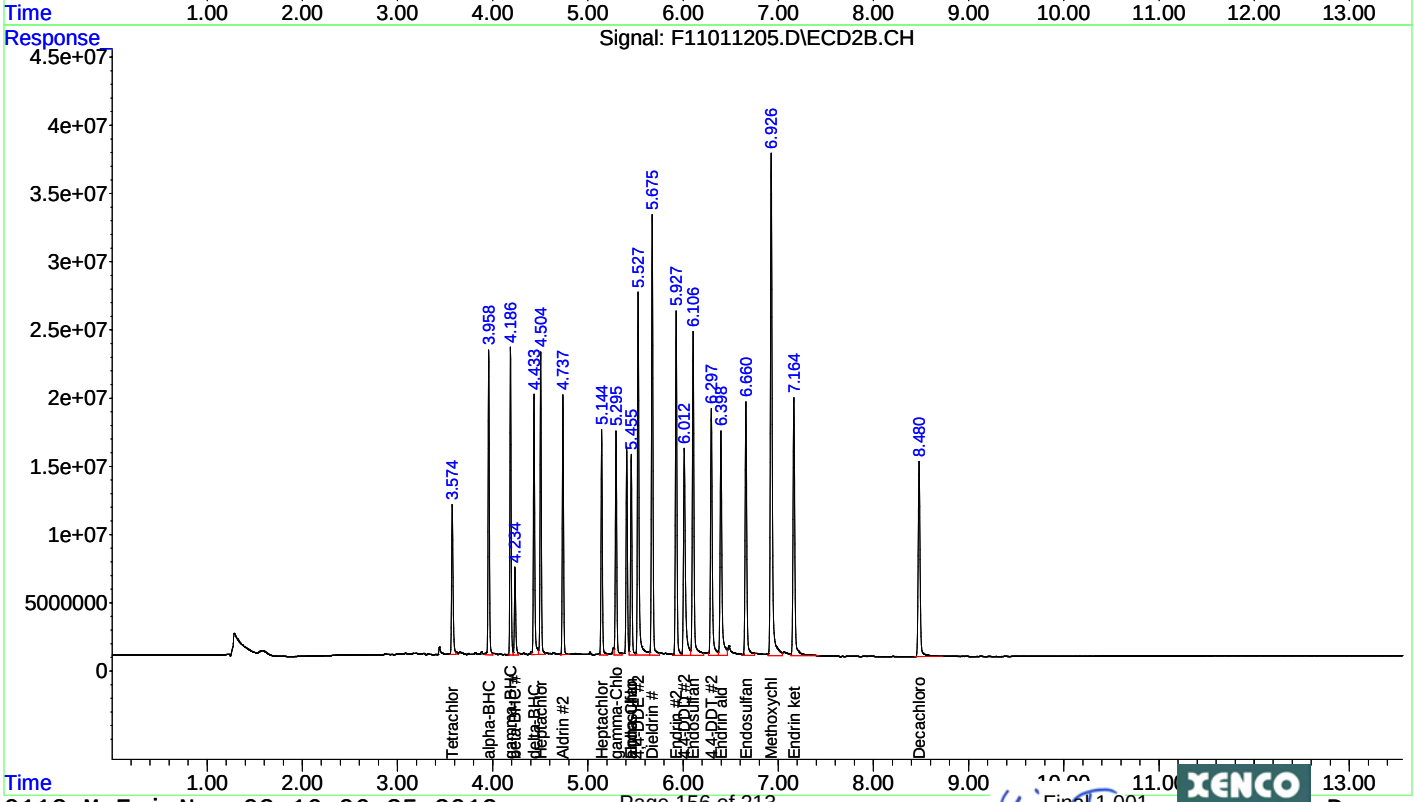
Quantitation Report (Not Reviewed)

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

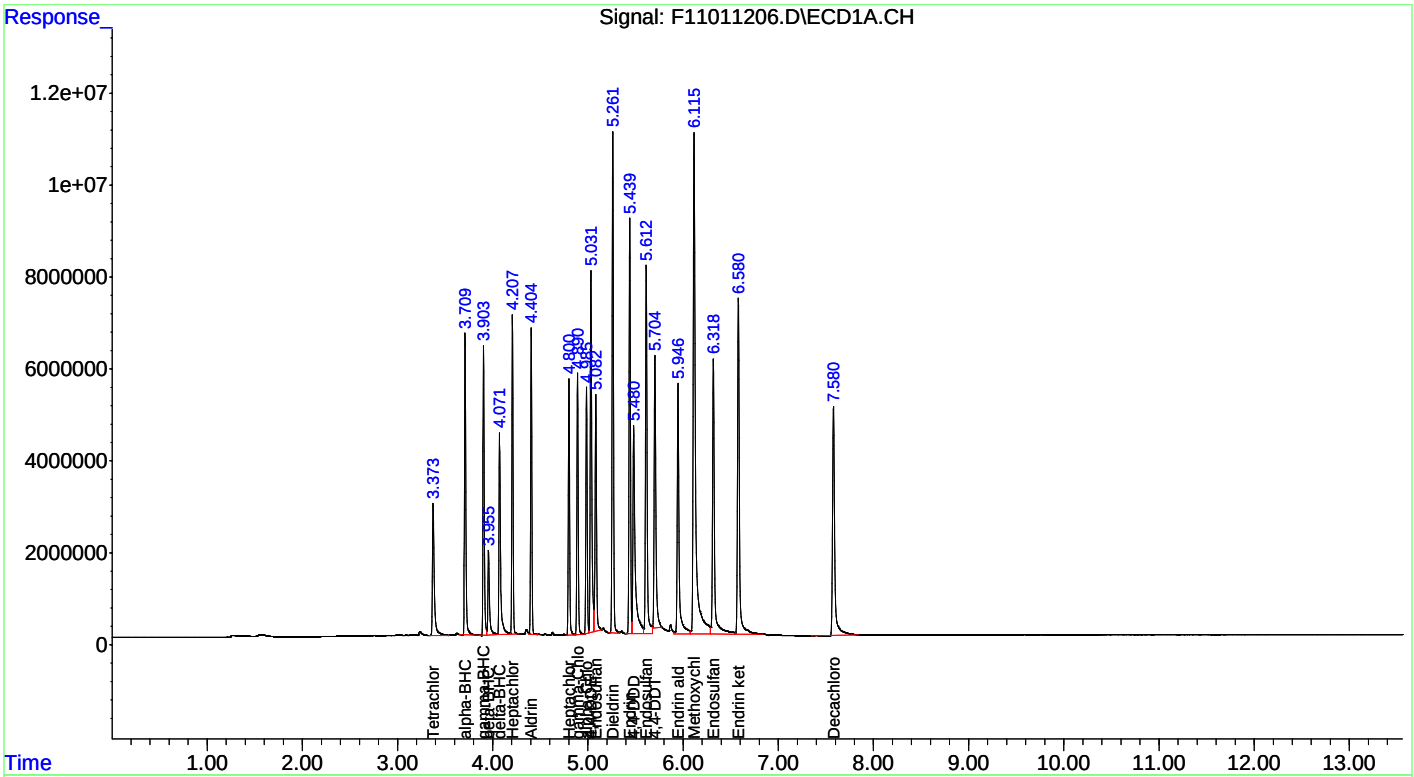
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

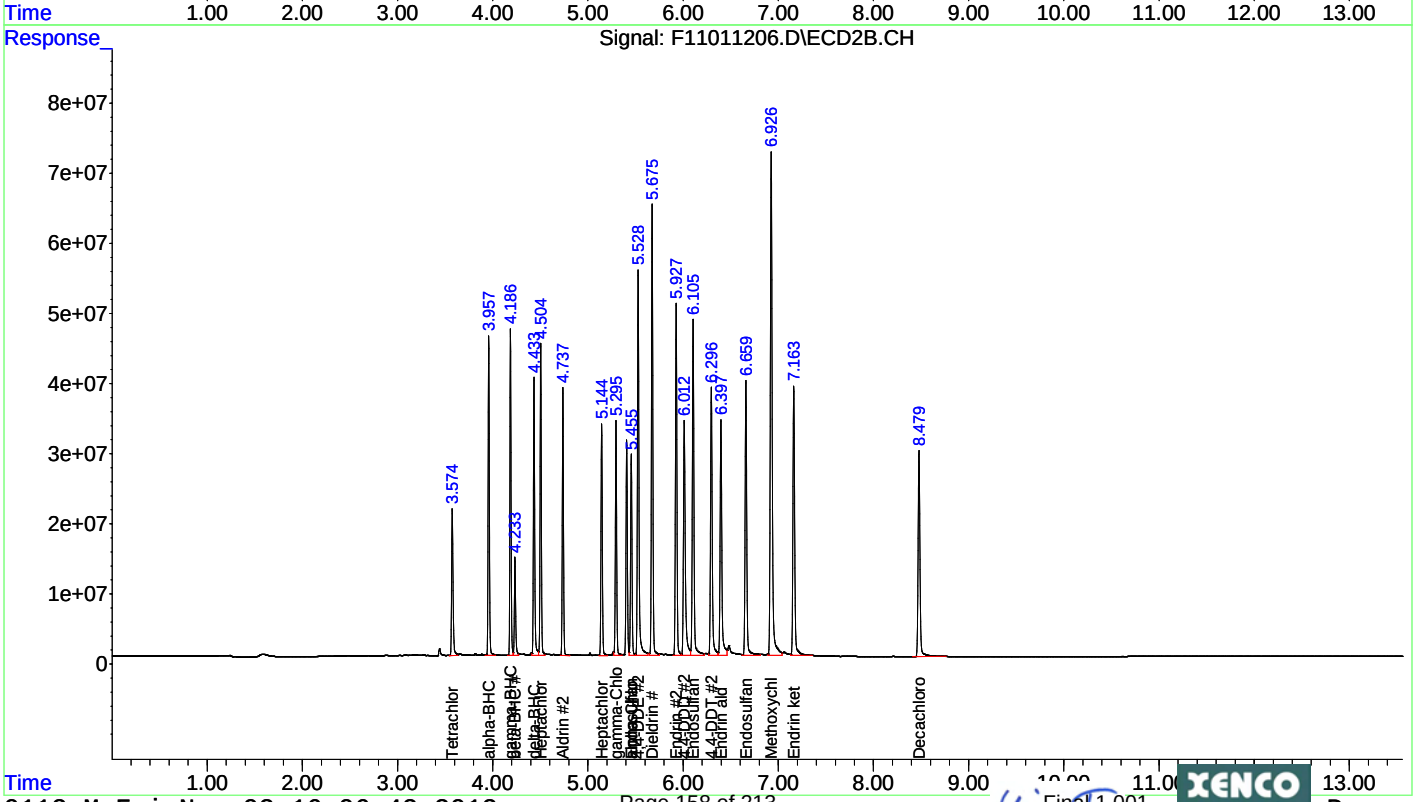
Quantitation Report (Not Reviewed)

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



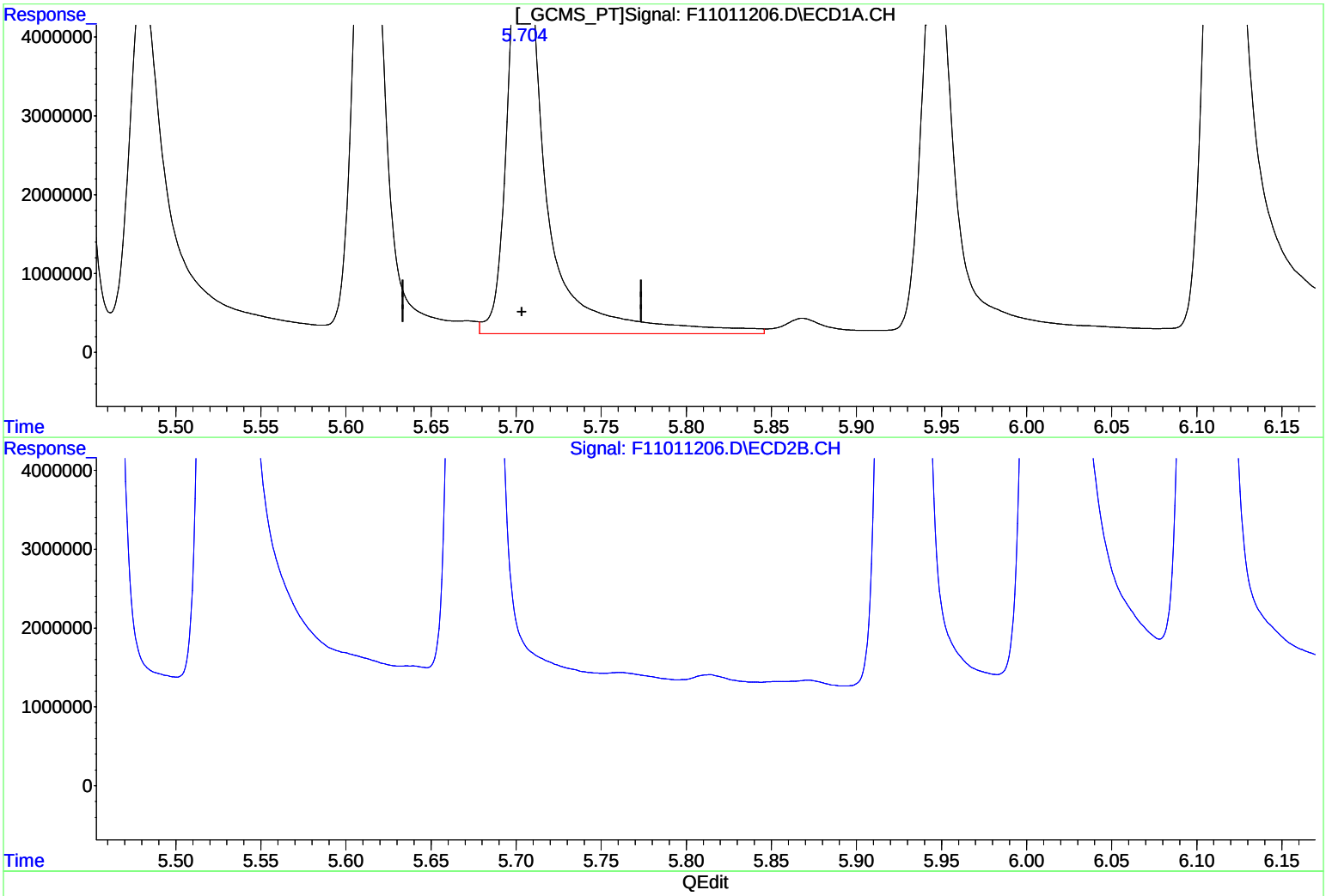


Quantitation Report (Qedit)

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



(18) 4,4-DDT (T)

5.704min 176.369ug/l

response 85286450

(18) 4,4-DDT #2 (T)

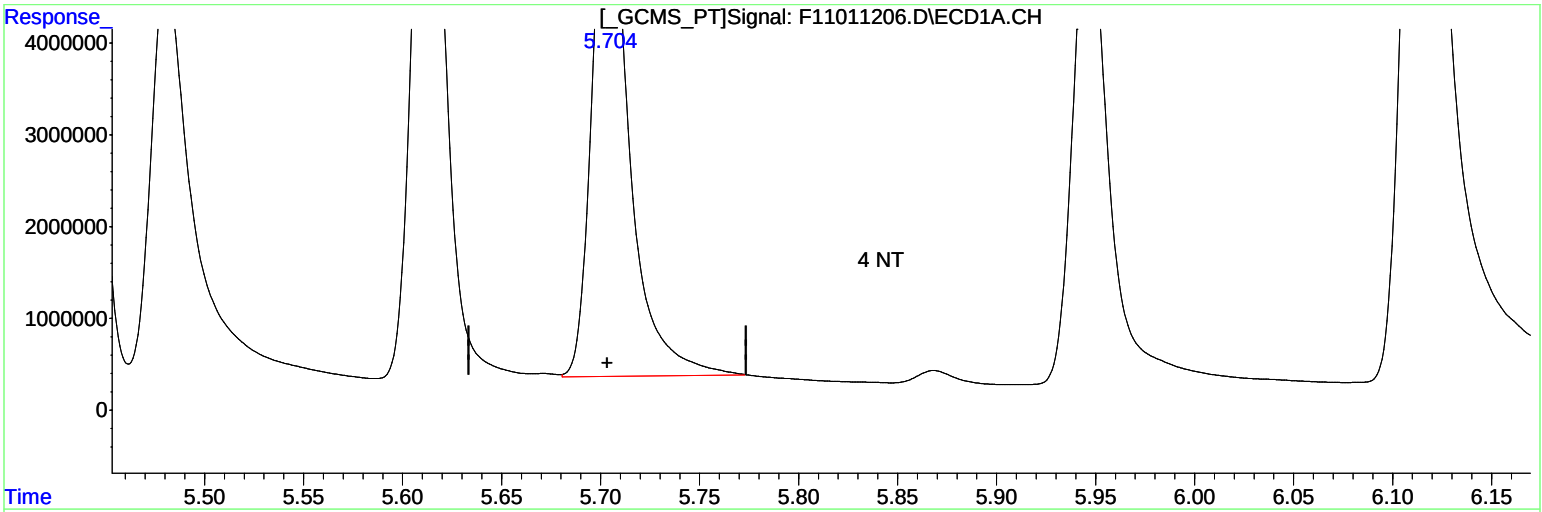
6.297min 155.460ug/l

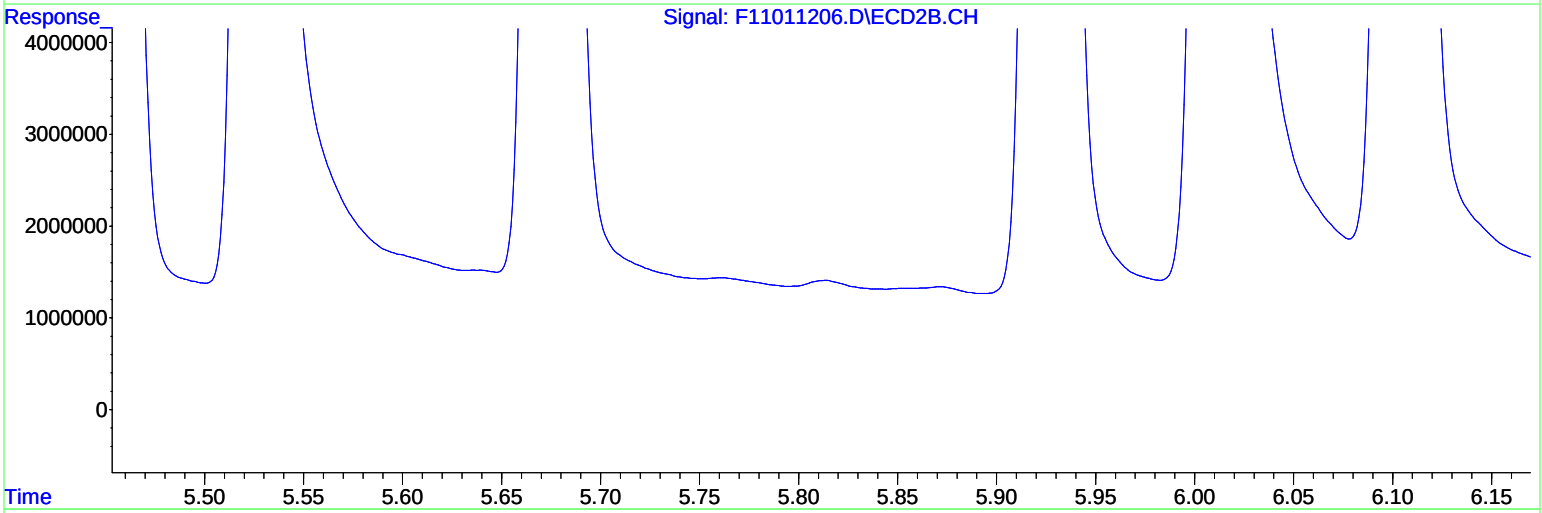
response 466147624

(+) = 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

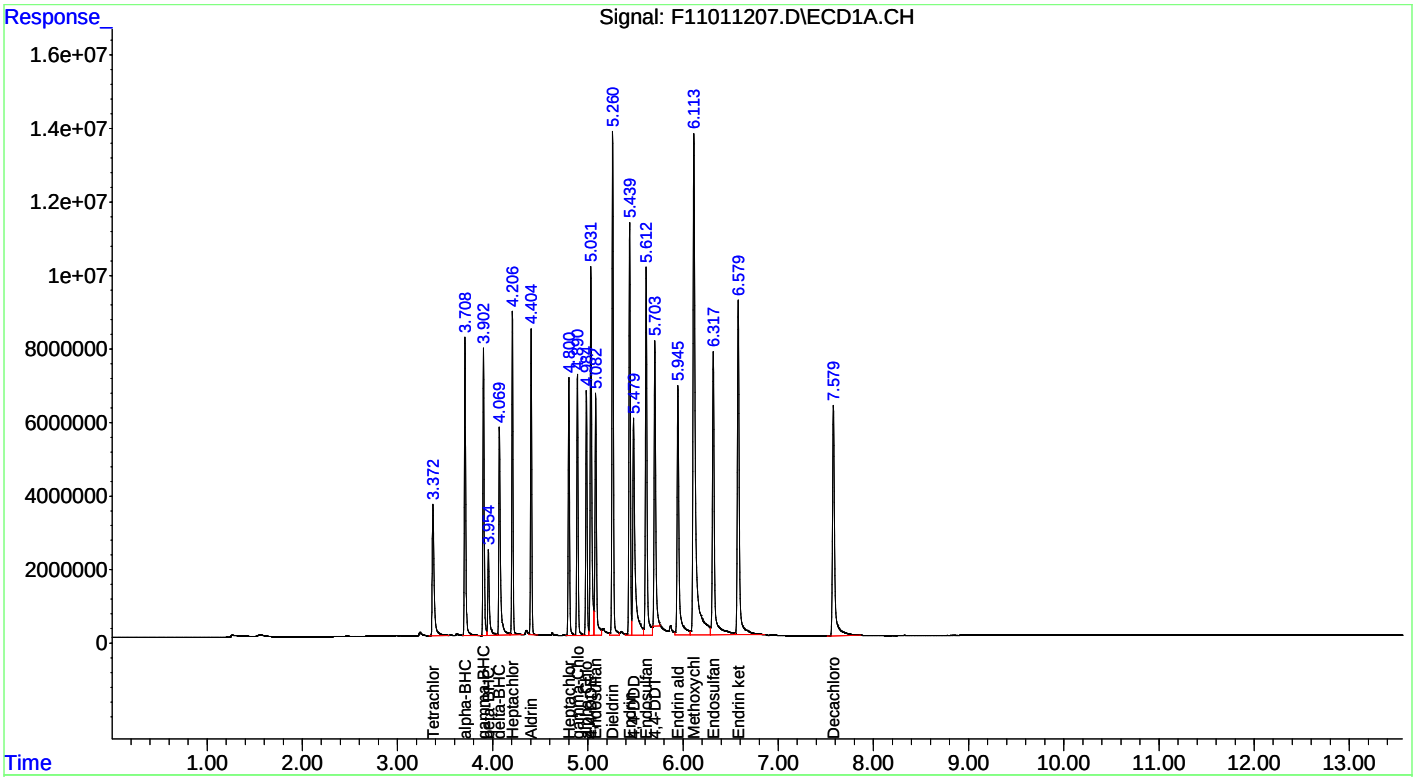
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

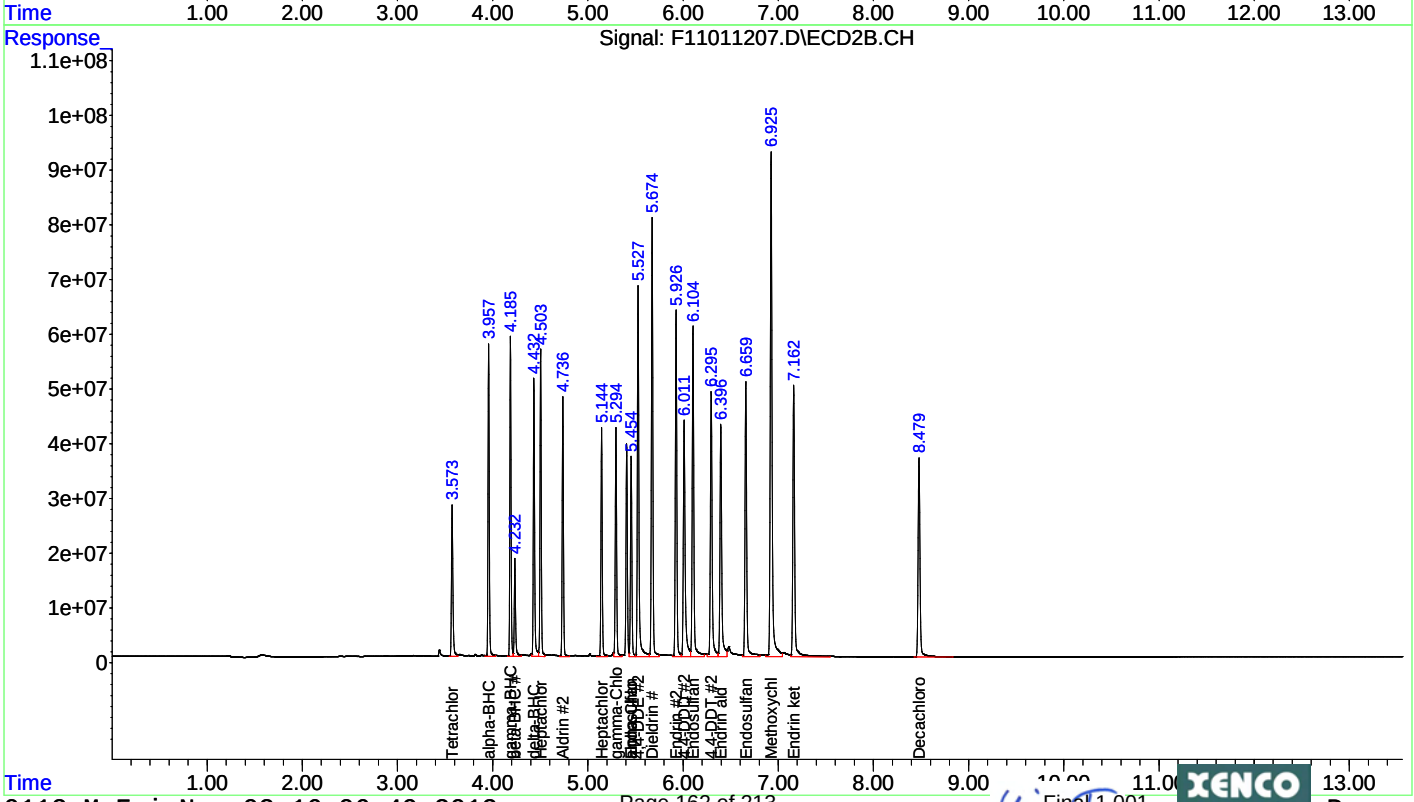
Quantitation Report (Not Reviewed)

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



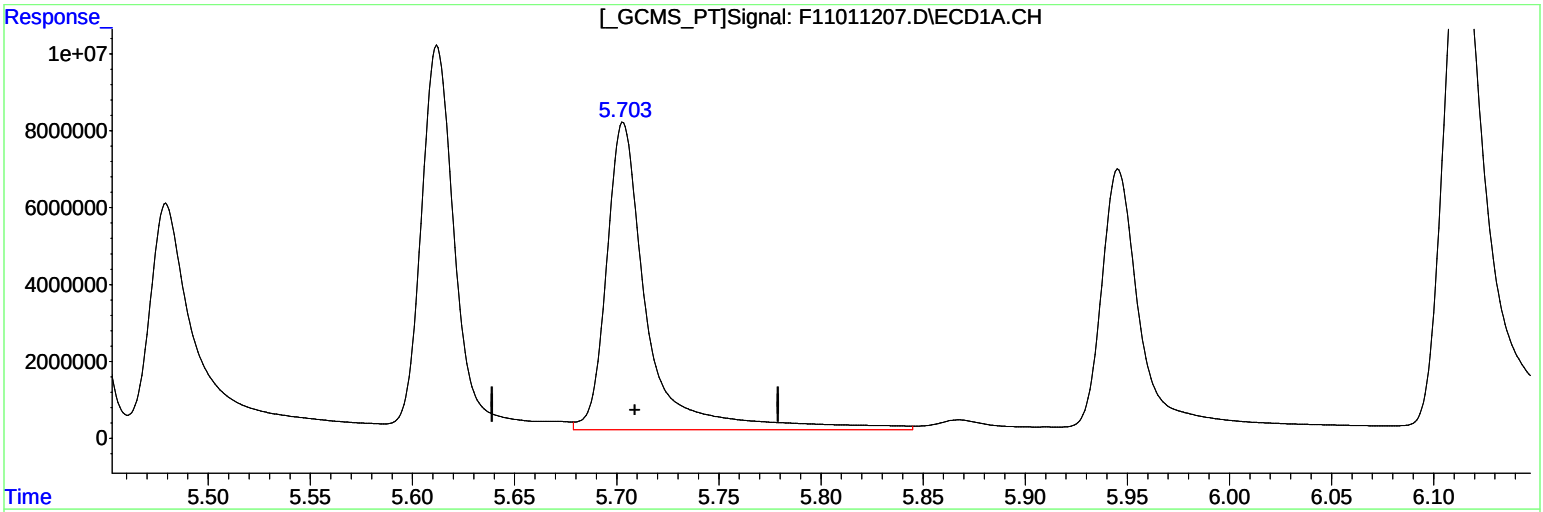


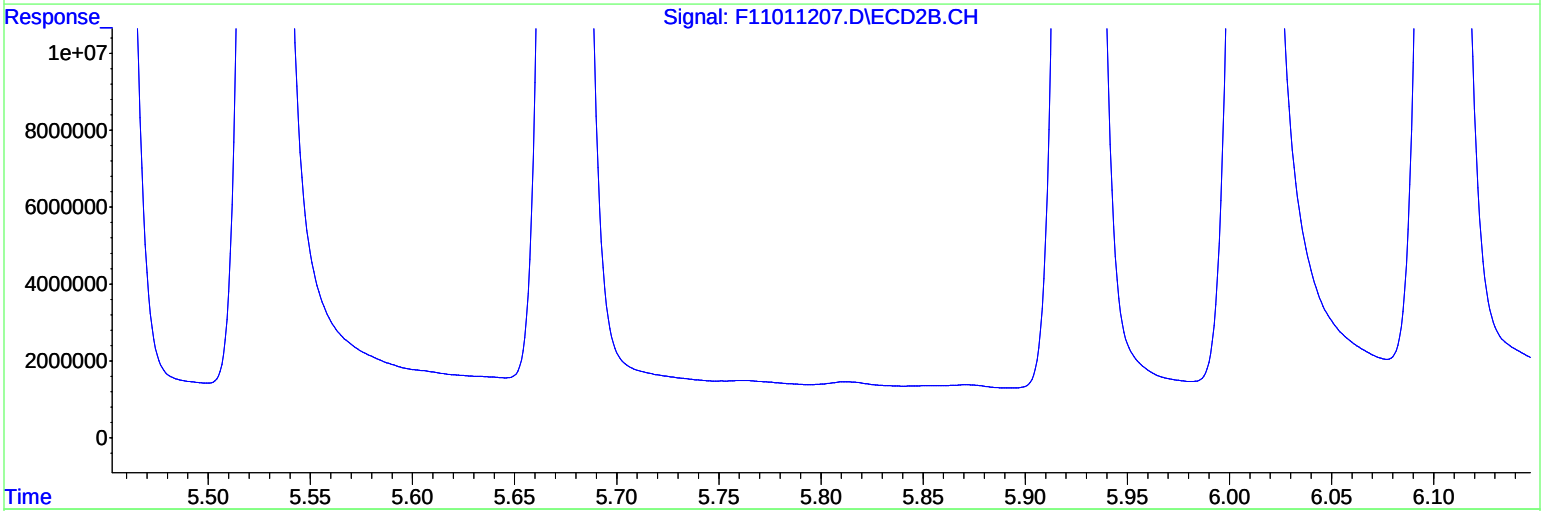
Quantitation Report (Qedit)

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





(18) 4,4-DDT (T)

5.703min 229.479ug/l

response 111519892

(18) 4,4-DDT #2 (T)

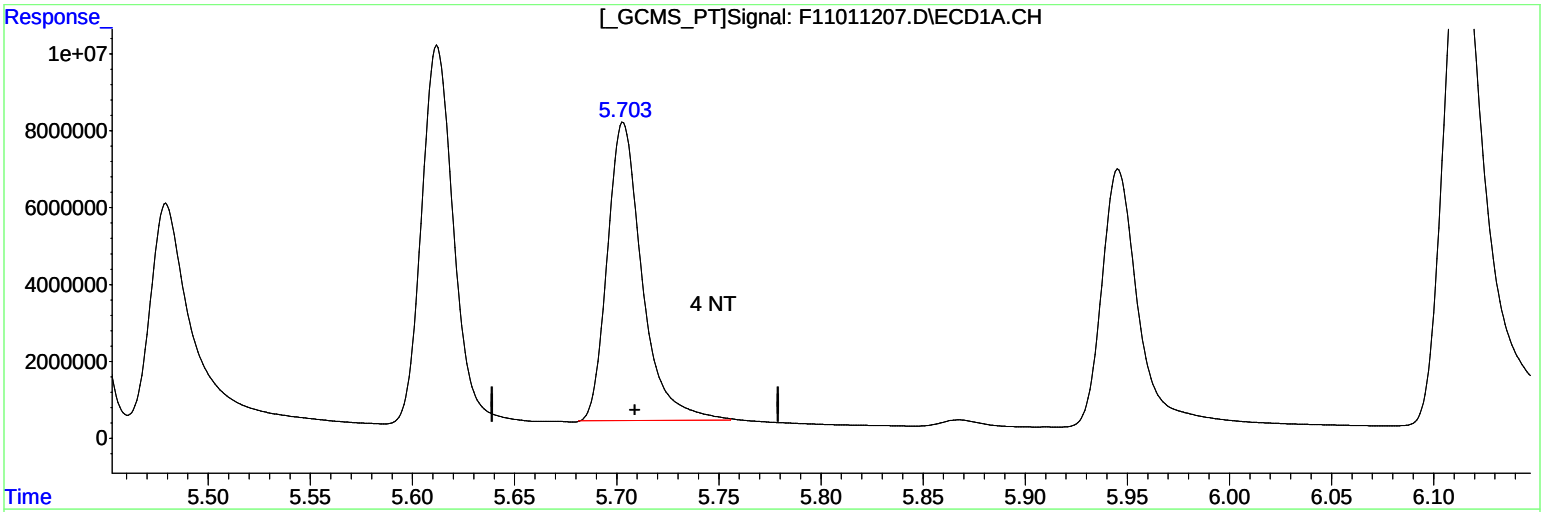
6.296min 196.508ug/l

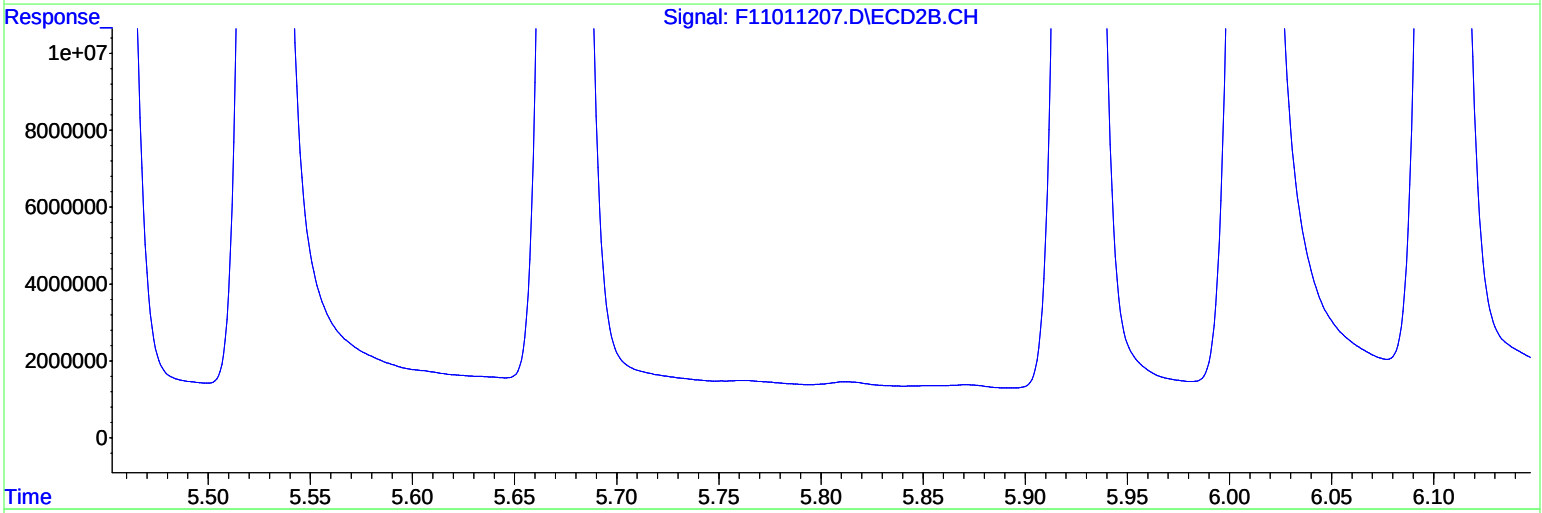
response 604627504

(+) = 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
```





(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

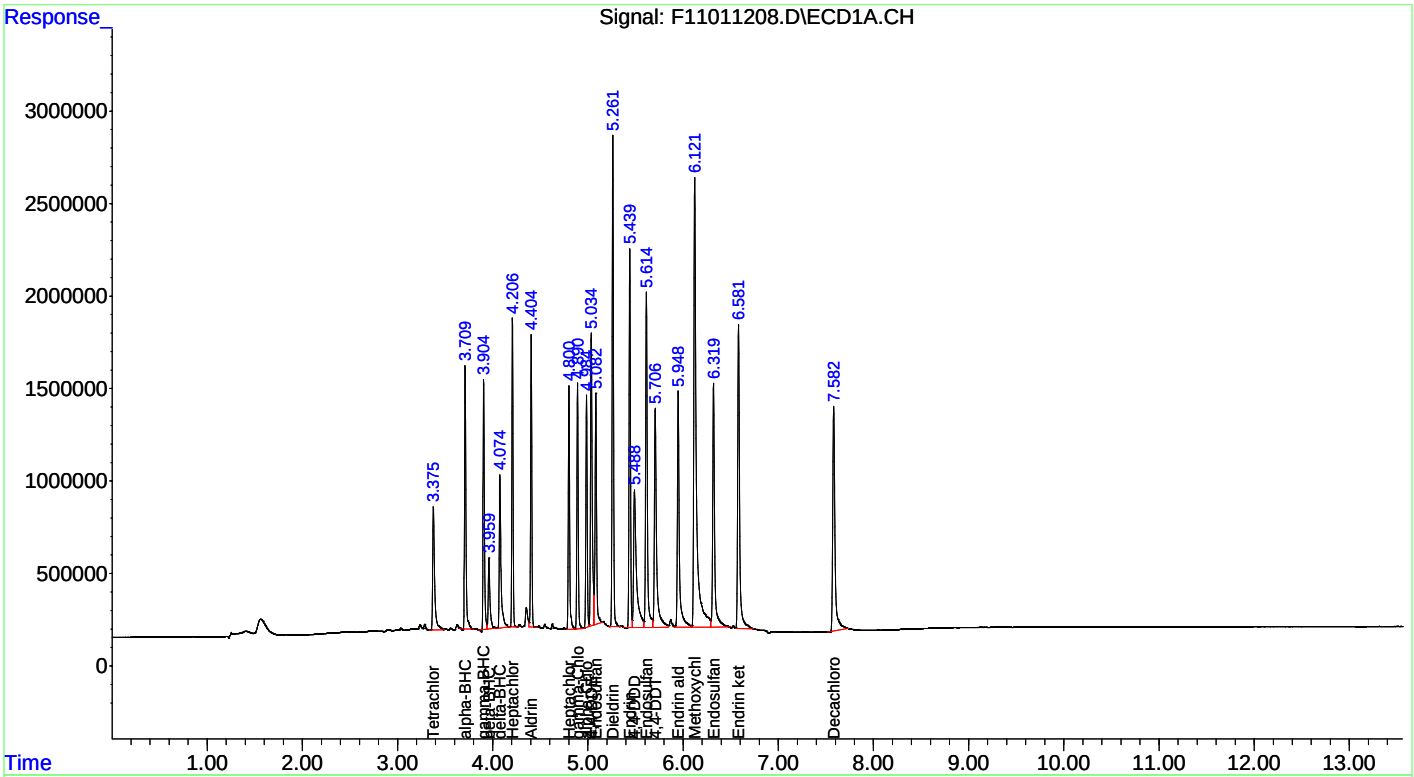
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

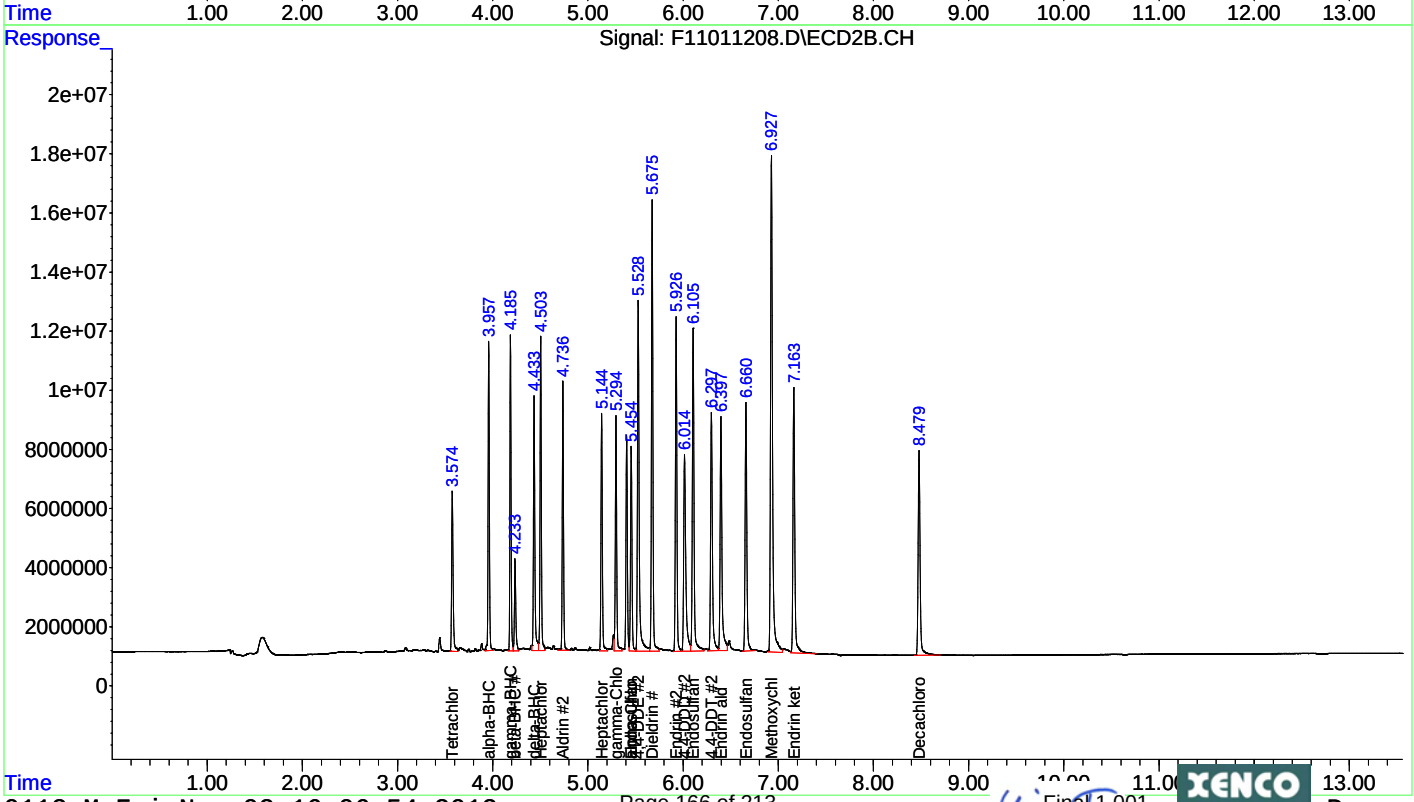
Quantitation Report (Not Reviewed)

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

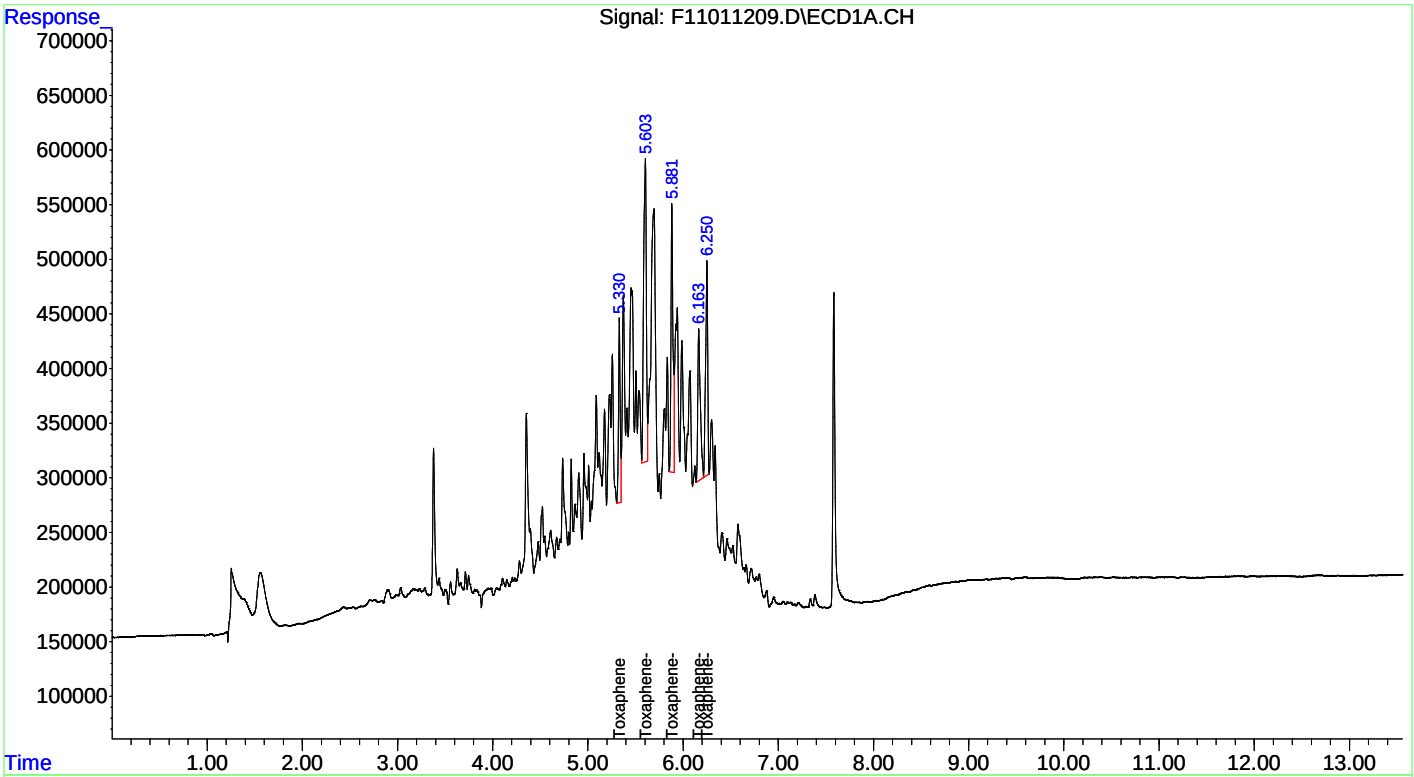
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

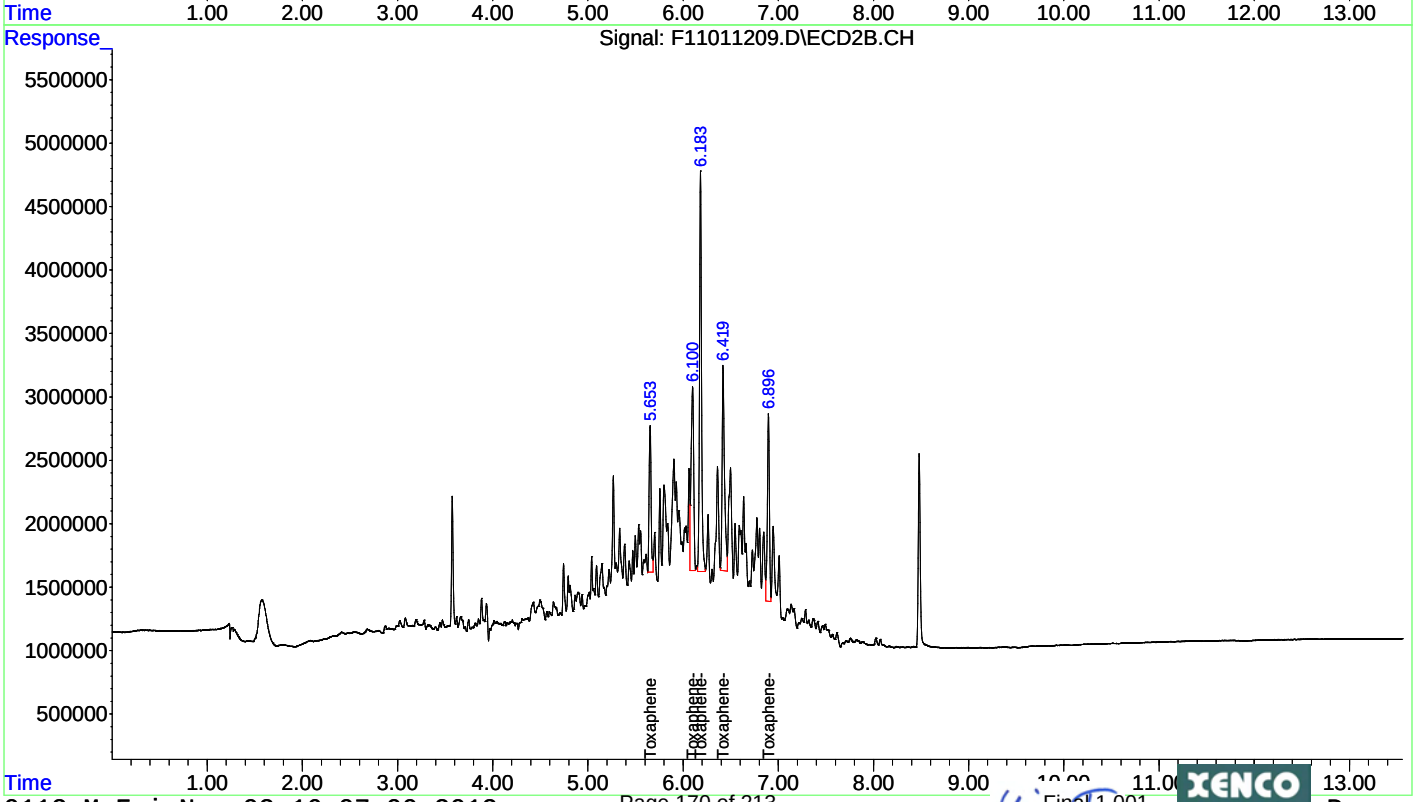
Quantitation Report (Not Reviewed)

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



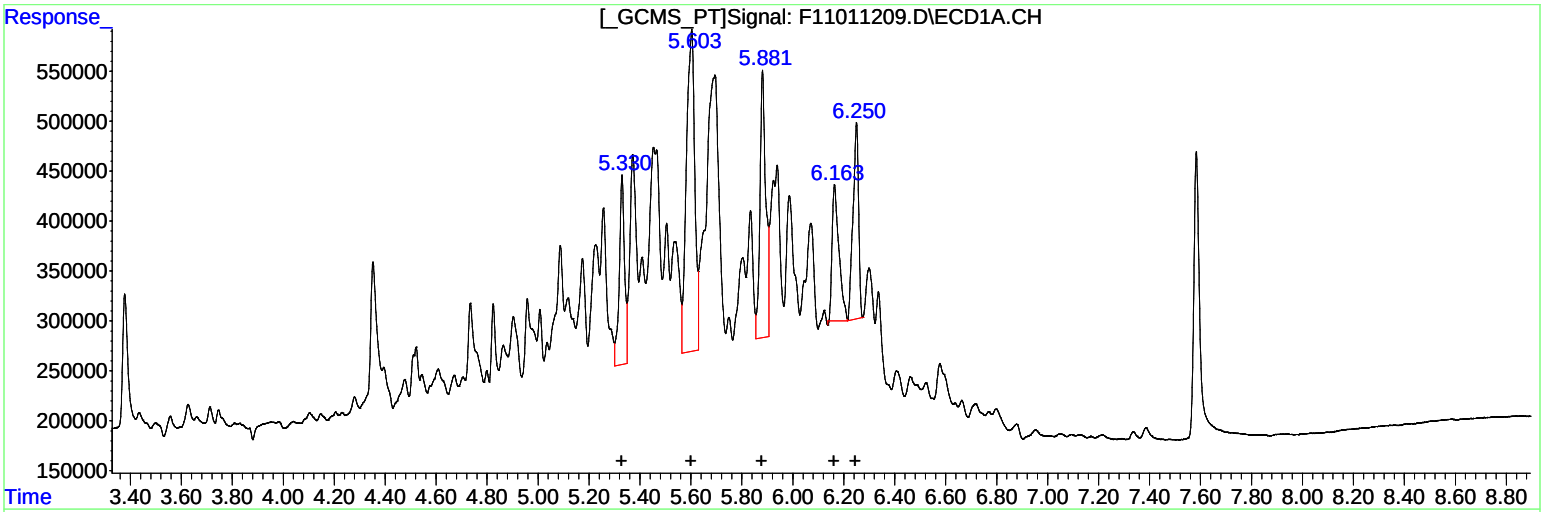


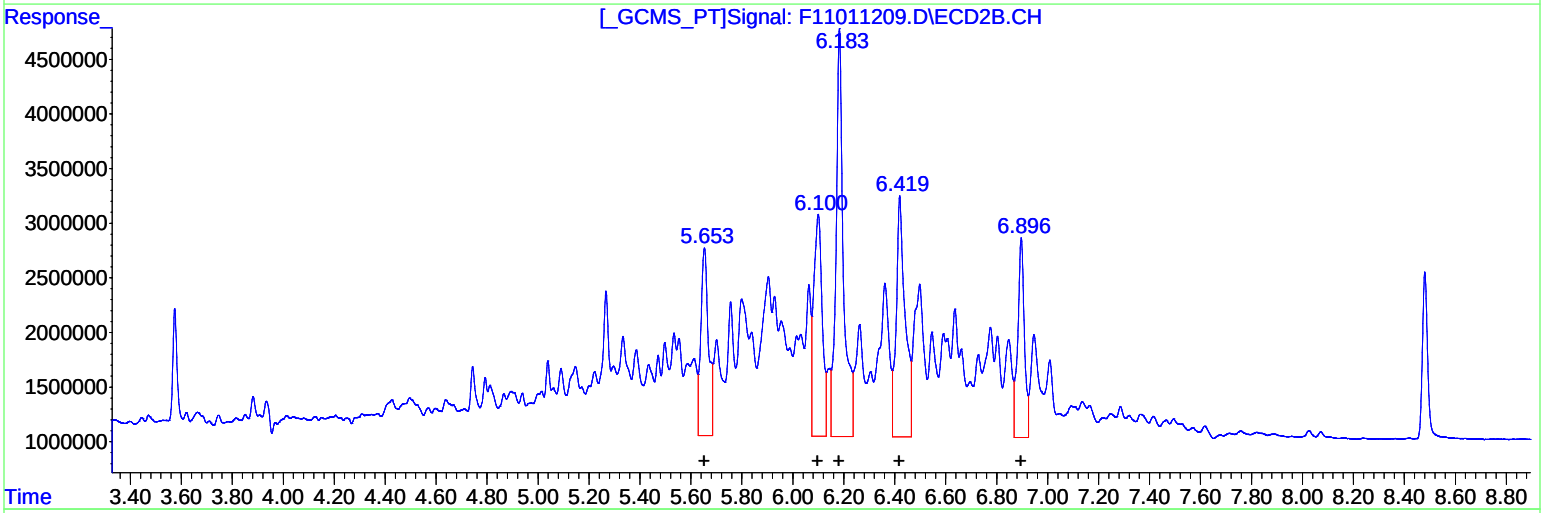
Quantitation Report (Qedit)

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

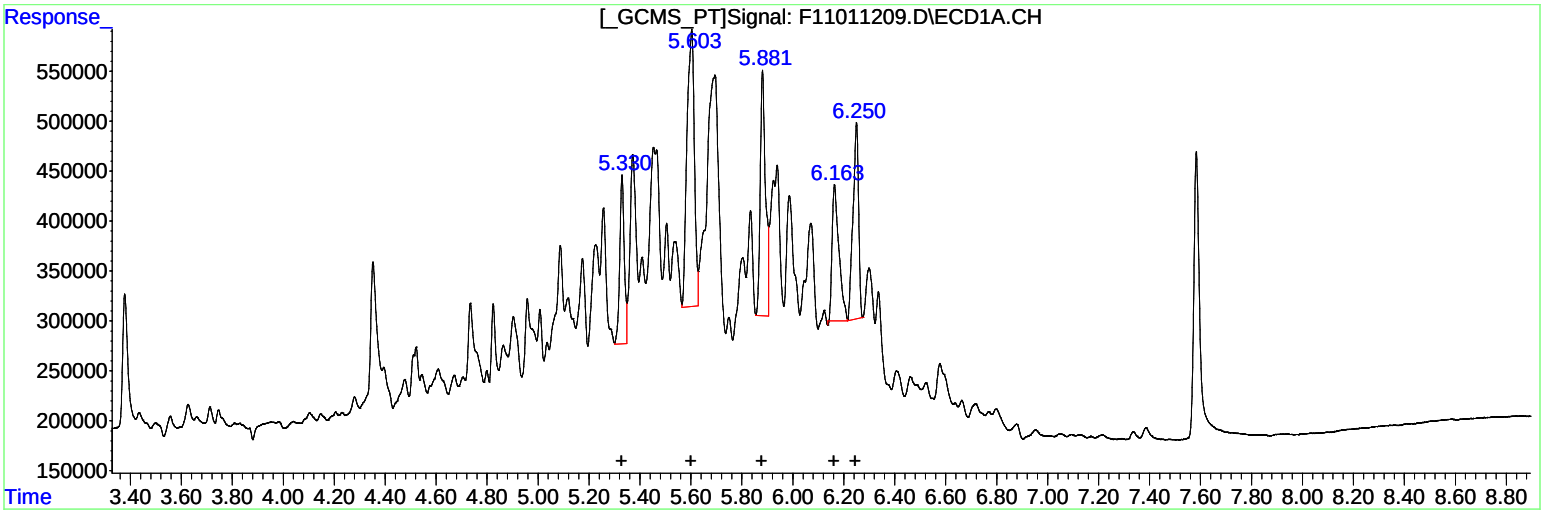
(+) = Expected Retention Time

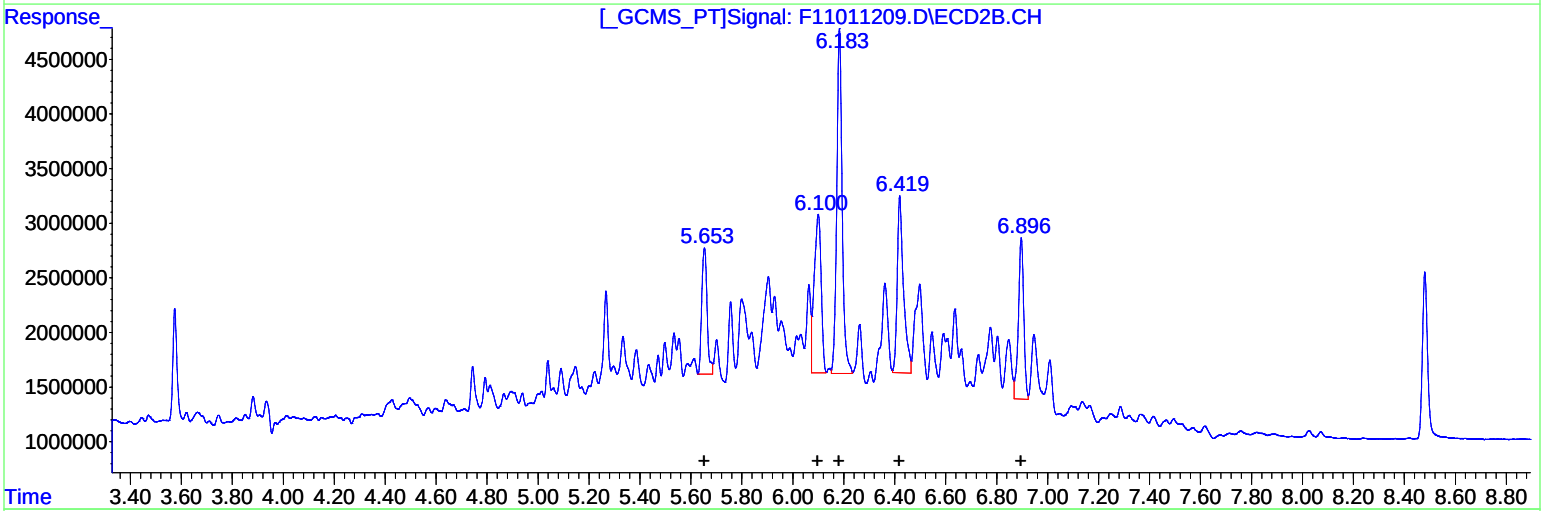
Quantitation Report (Qedit)

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





(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

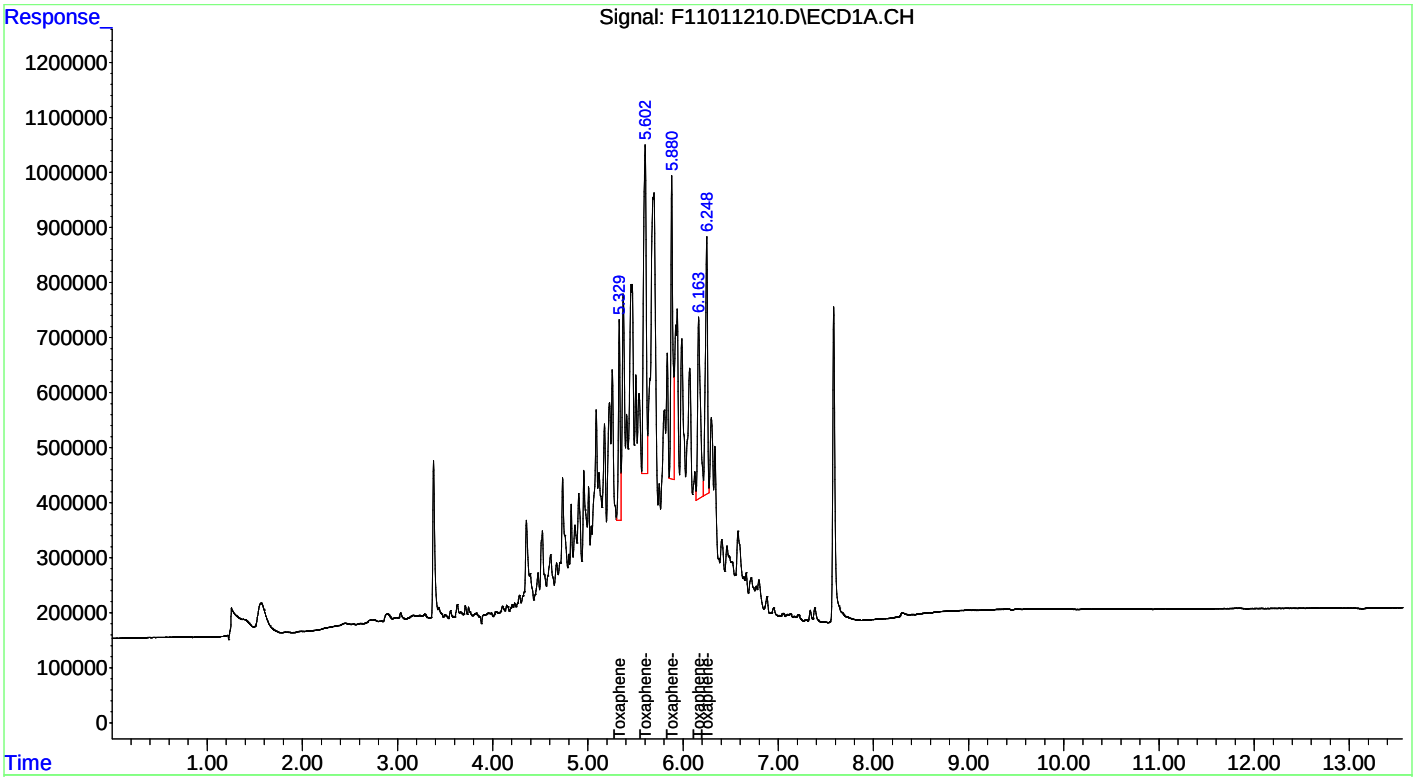
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

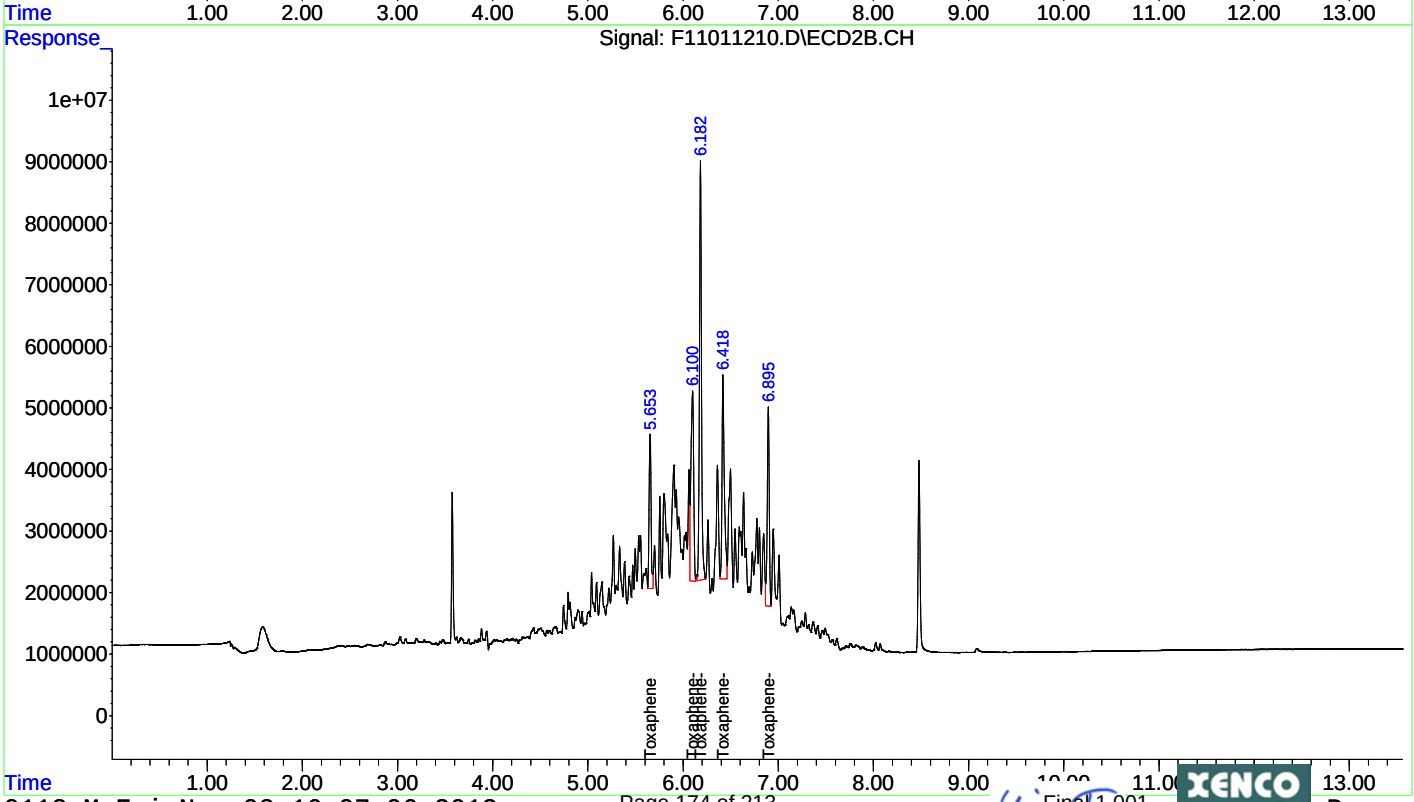
Quantitation Report (Not Reviewed)

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



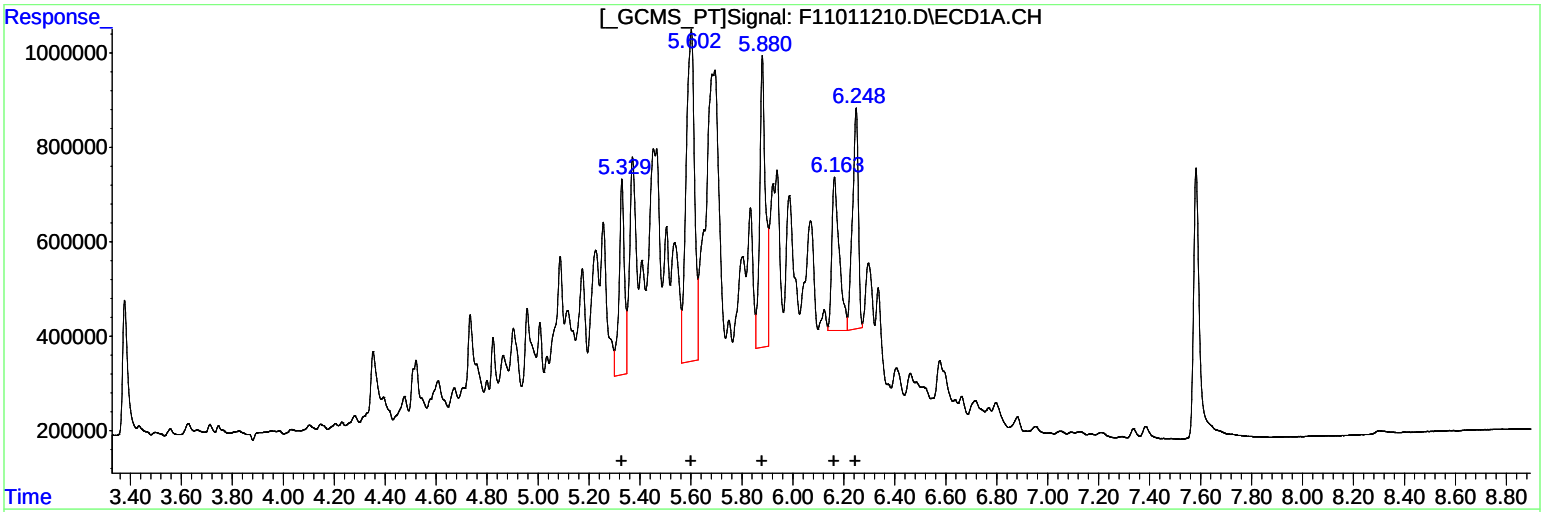


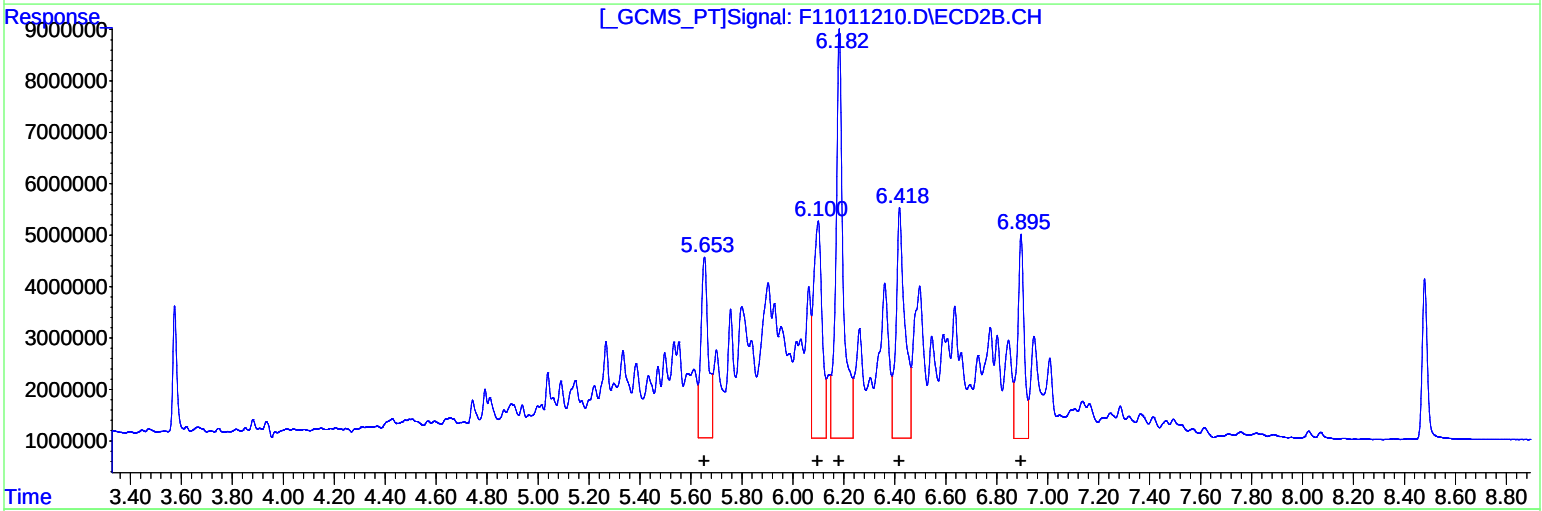
Quantitation Report (Qedit)

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





(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

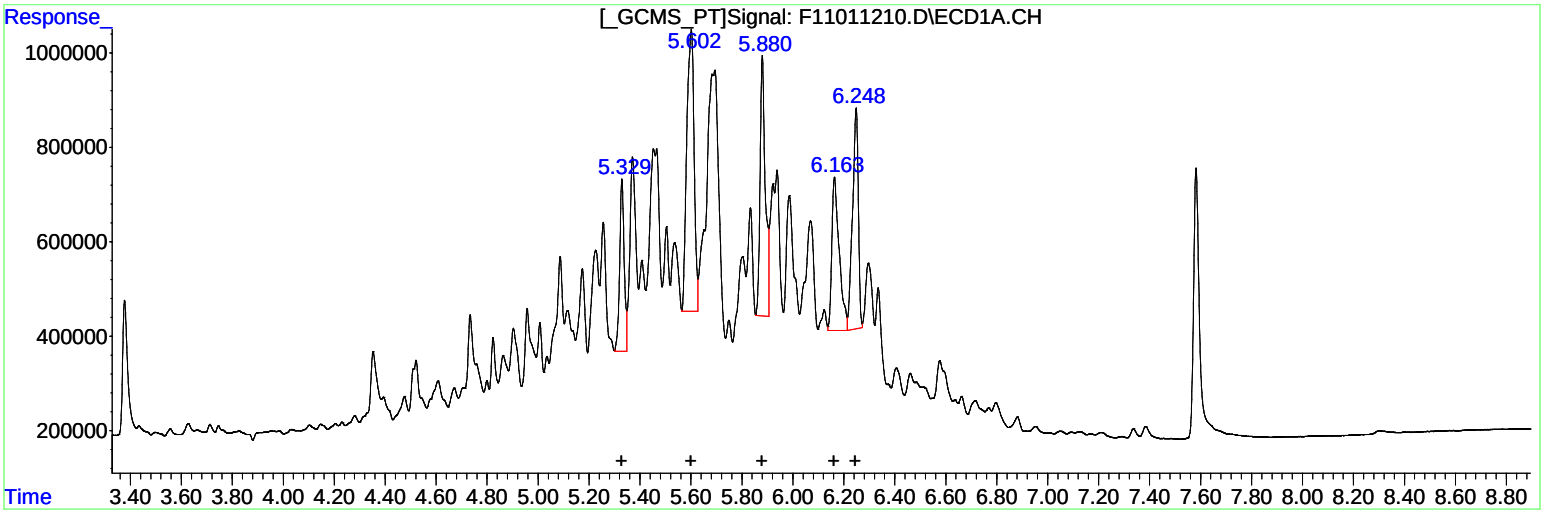
(+) = Expected Retention Time

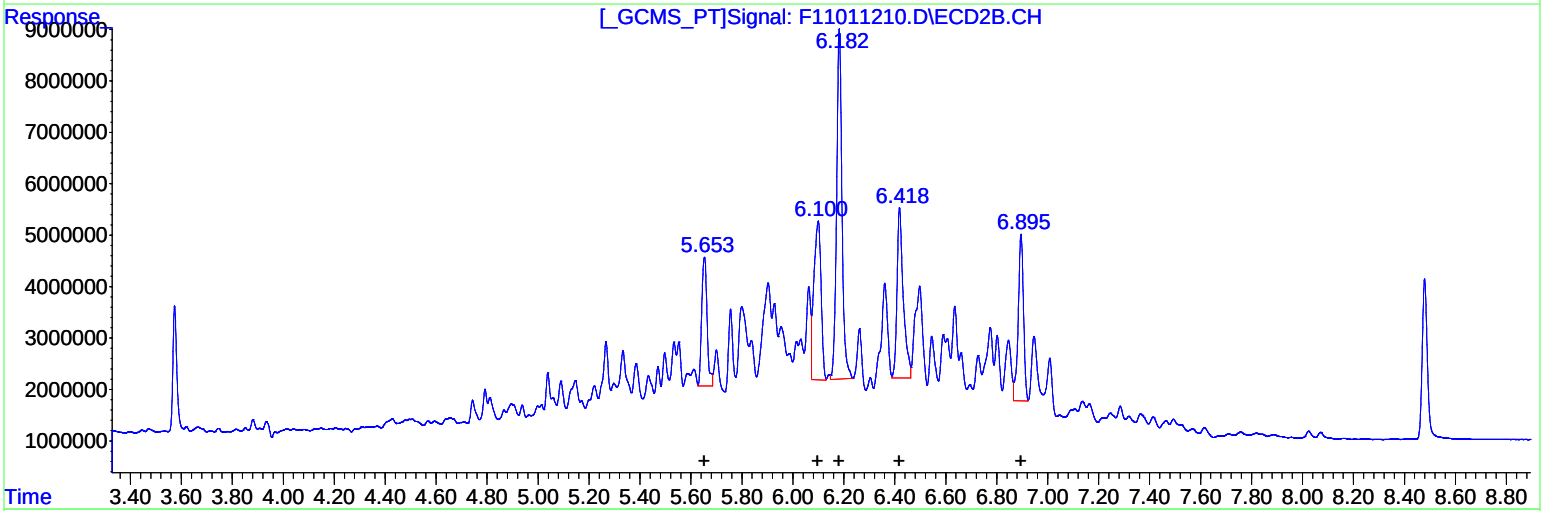
Quantitation Report (Qedit)

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

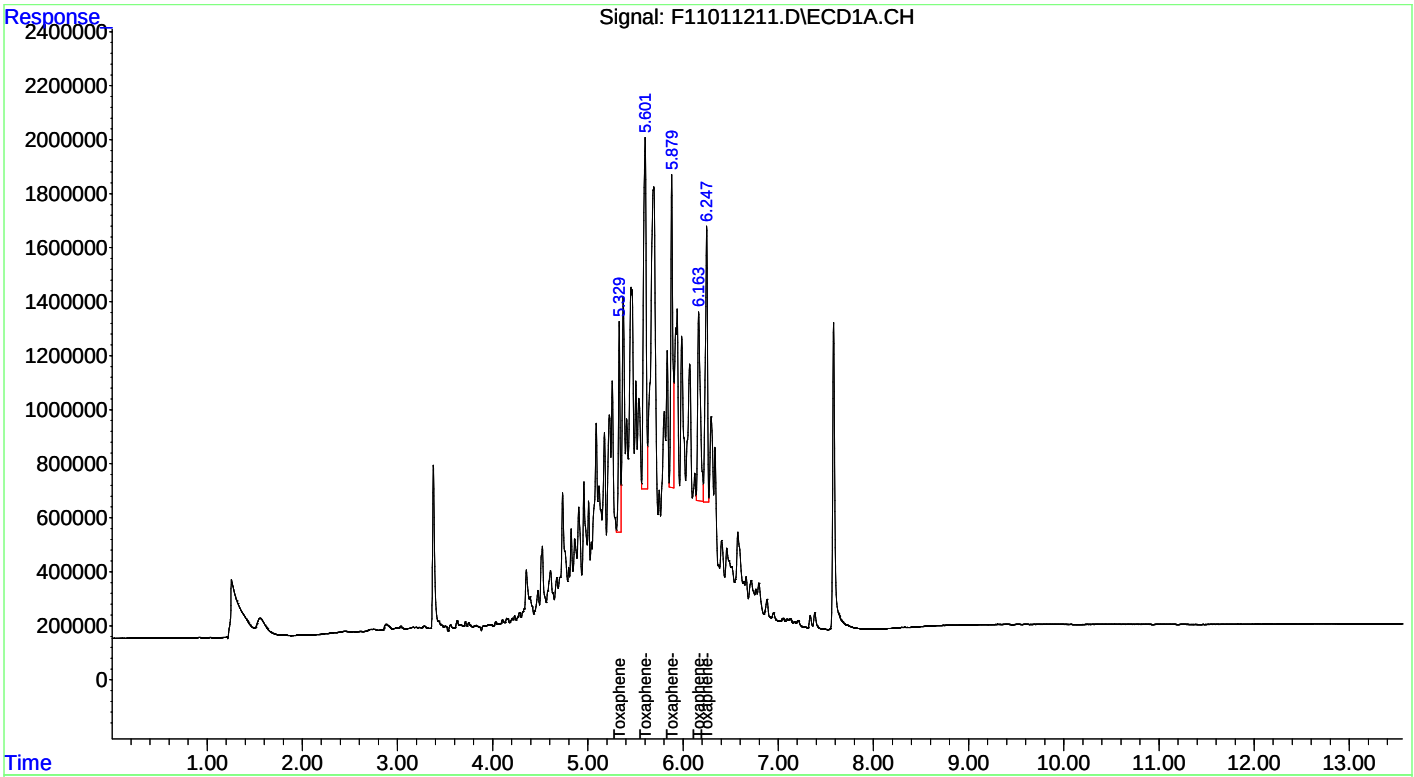
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

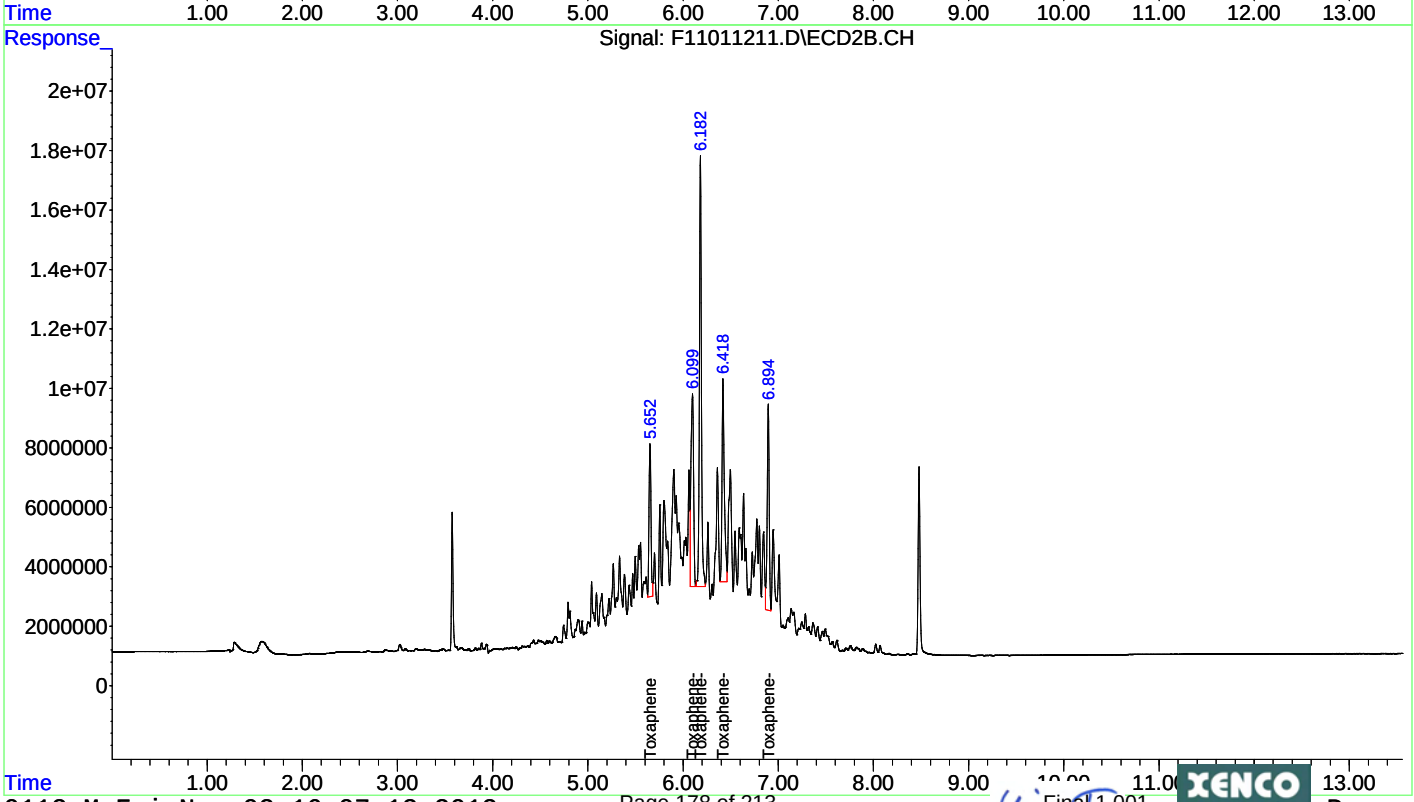
Quantitation Report (Not Reviewed)

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



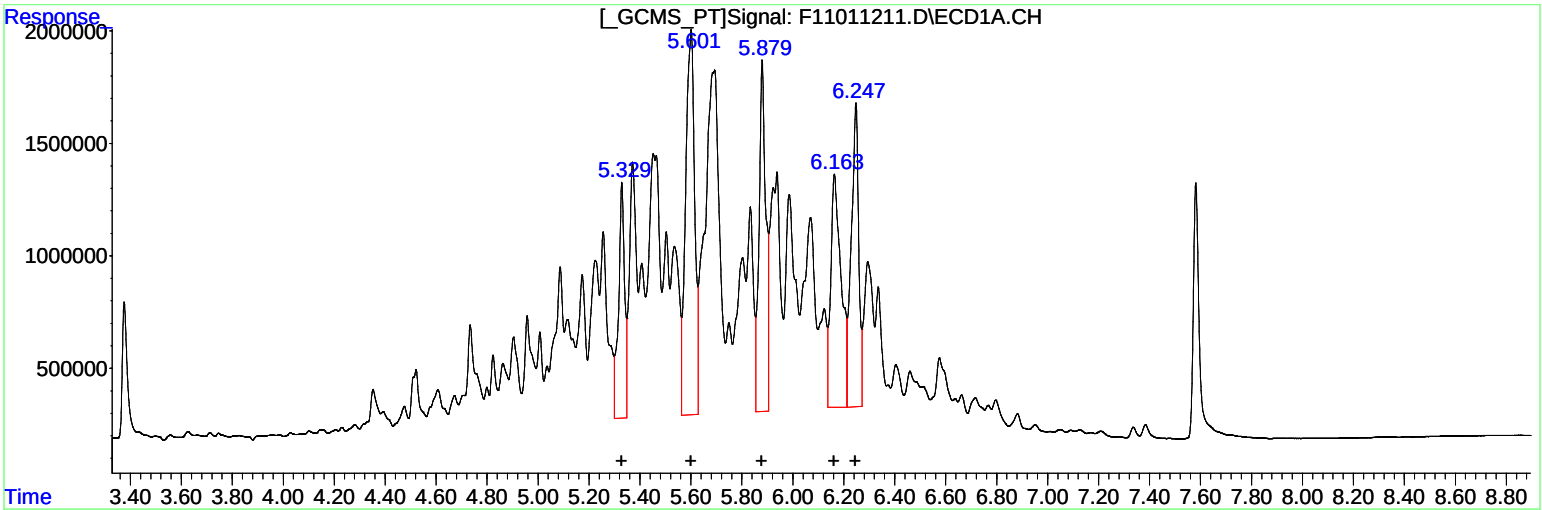


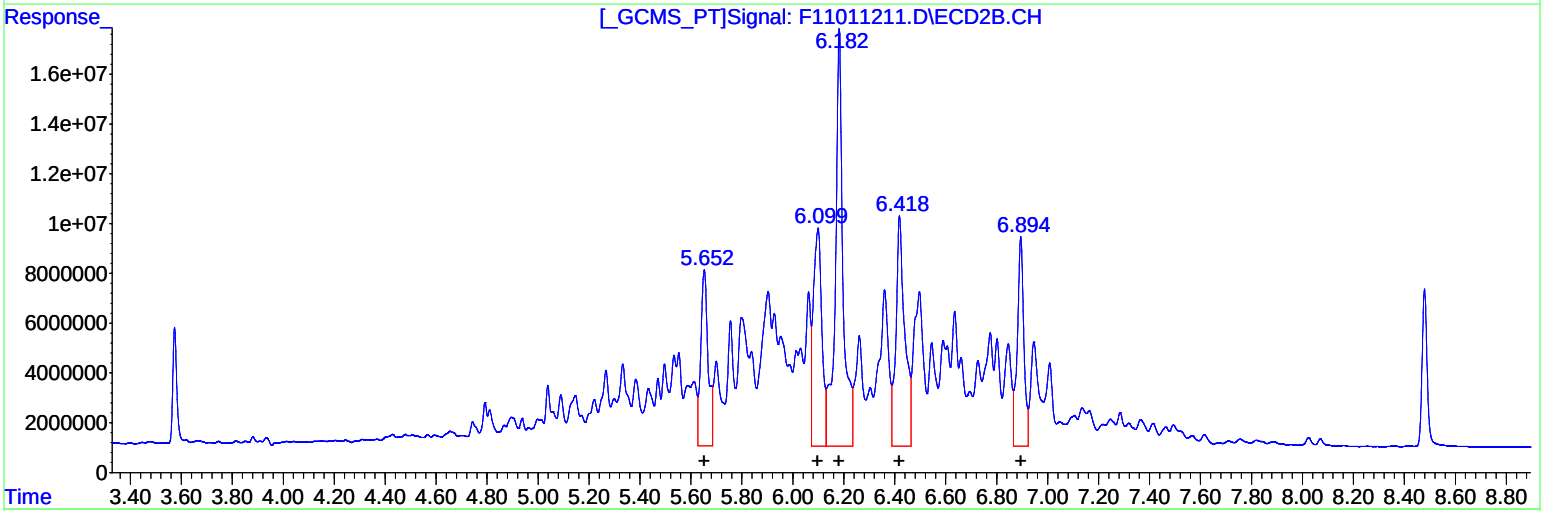
Quantitation Report (Qedit)

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





(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

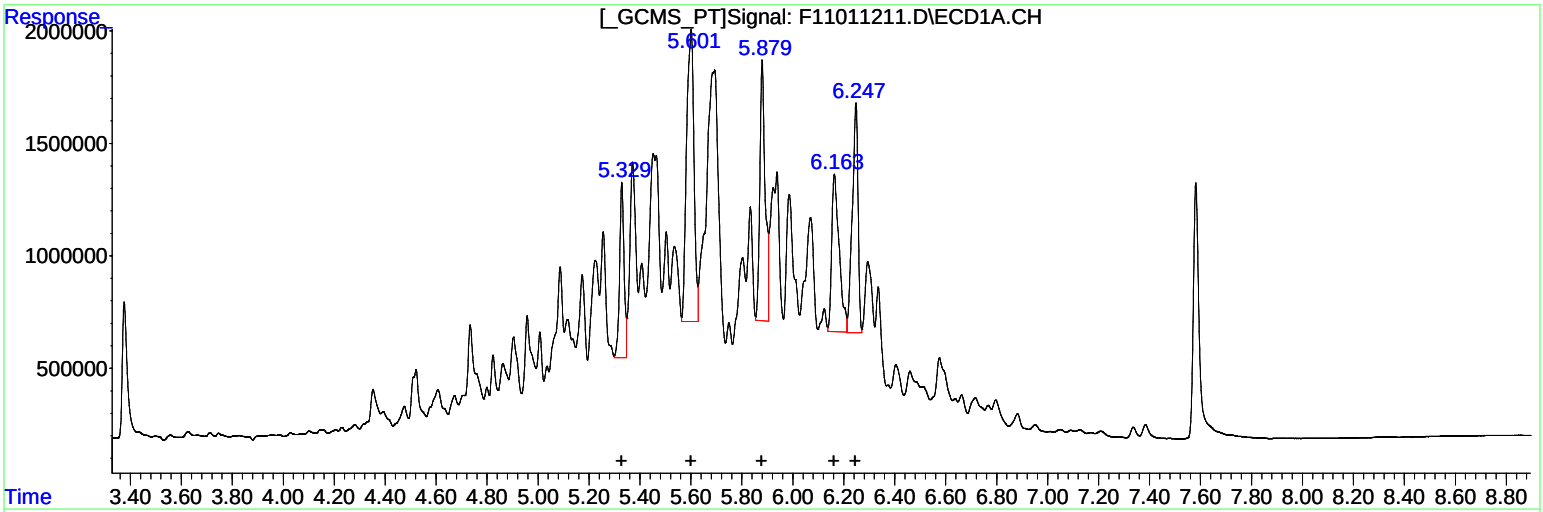
(+) = Expected Retention Time

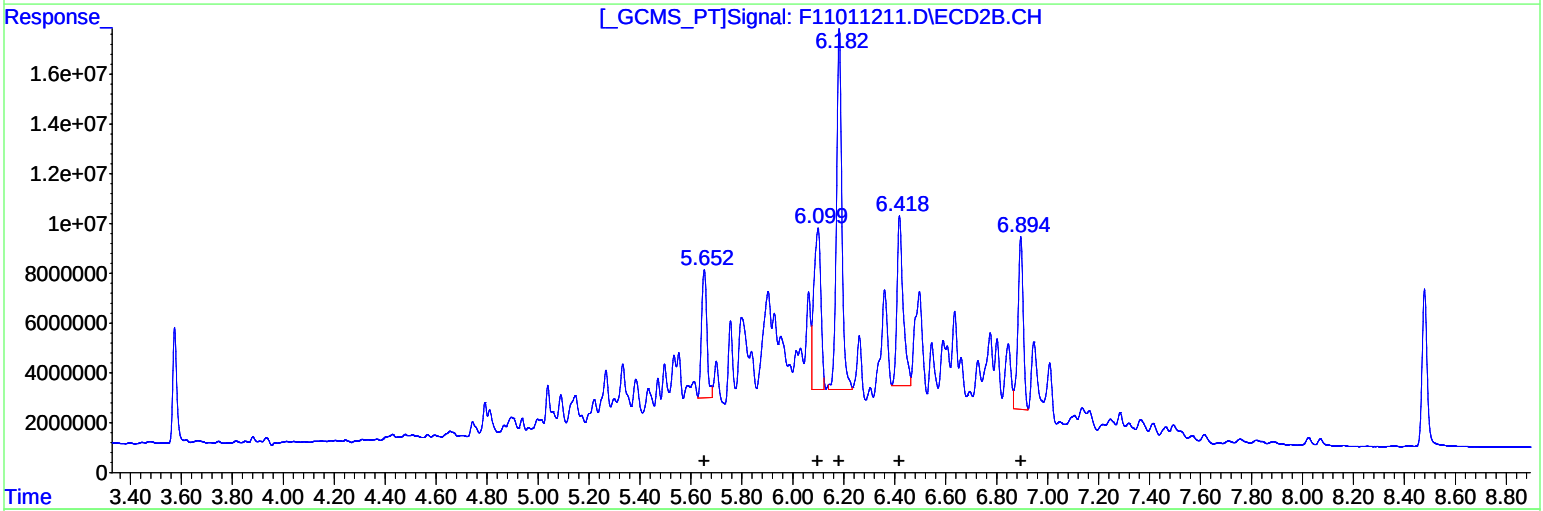
Quantitation Report (Qedit)

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





(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

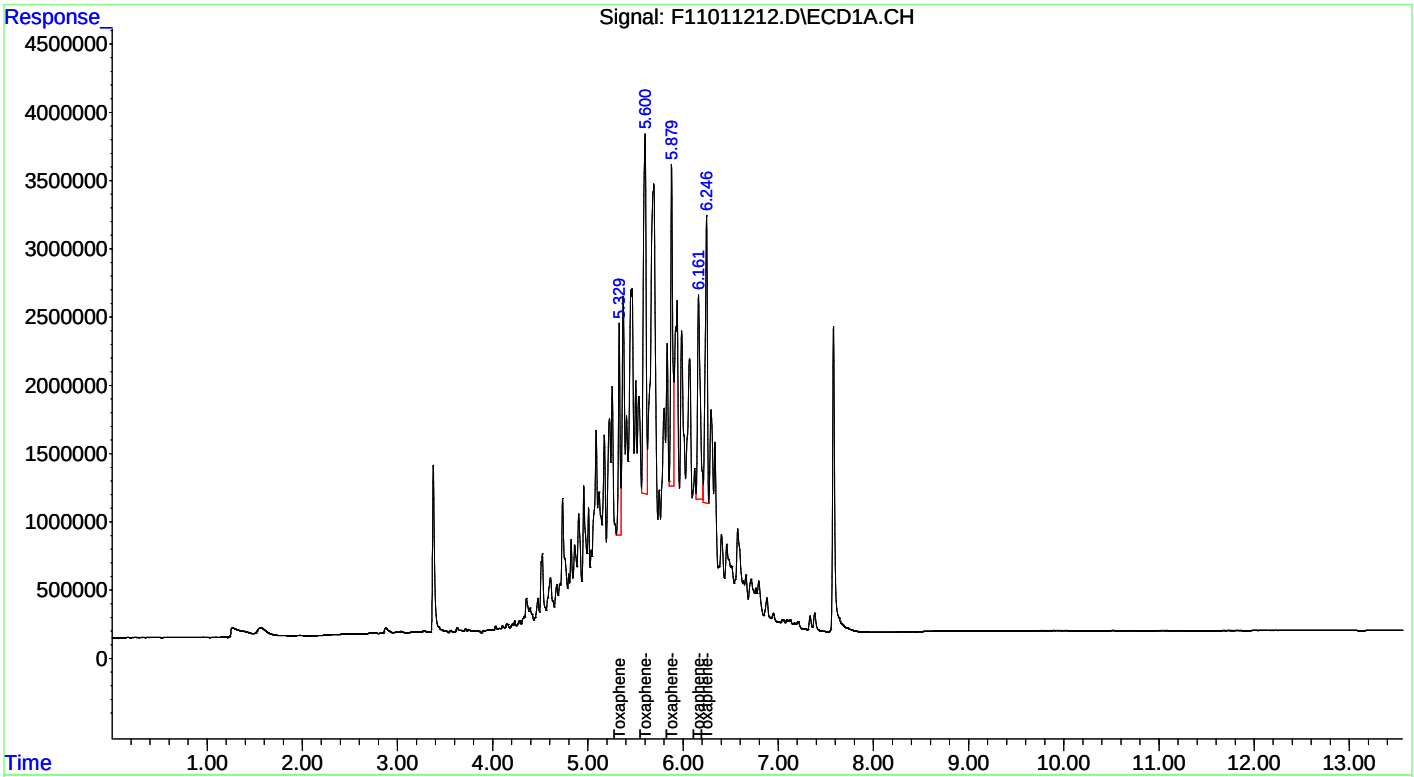
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

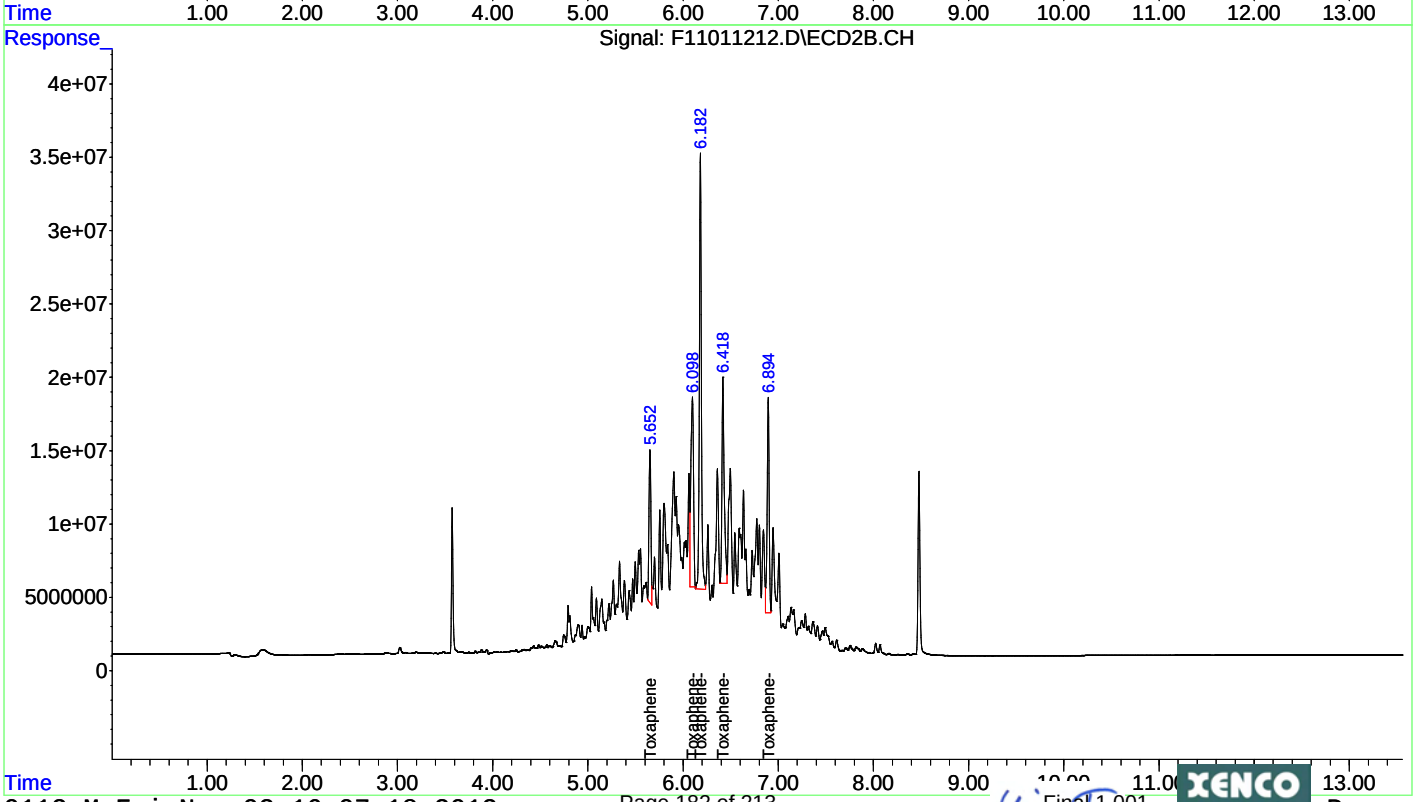
Quantitation Report (Not Reviewed)

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



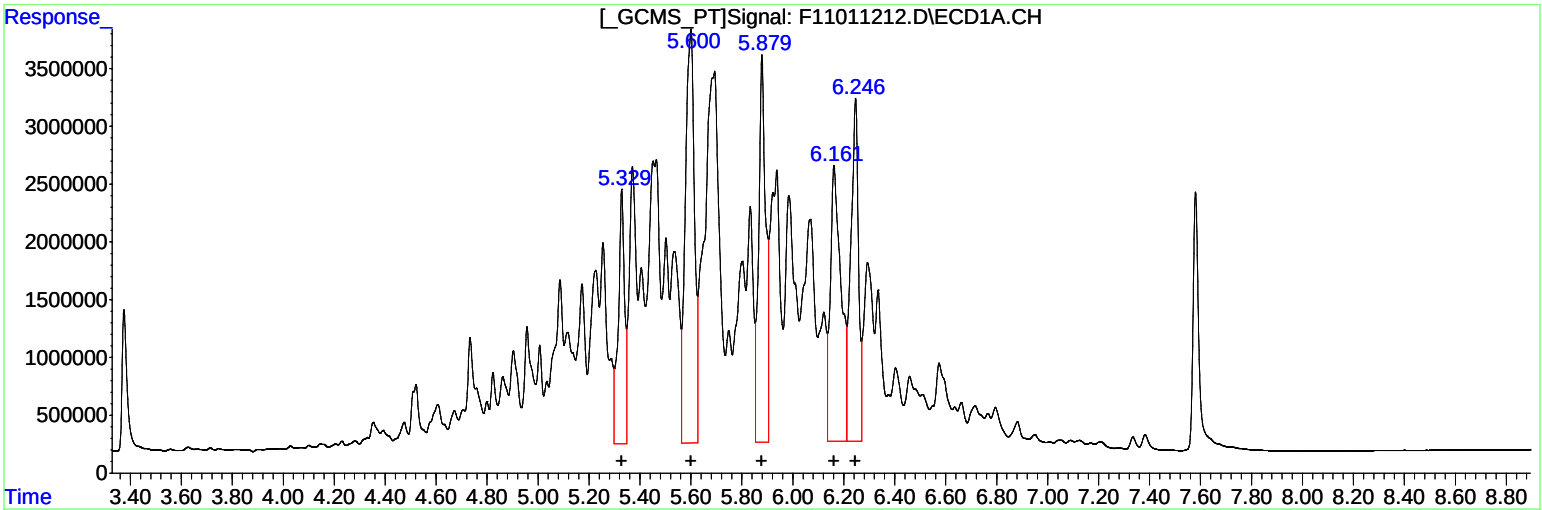


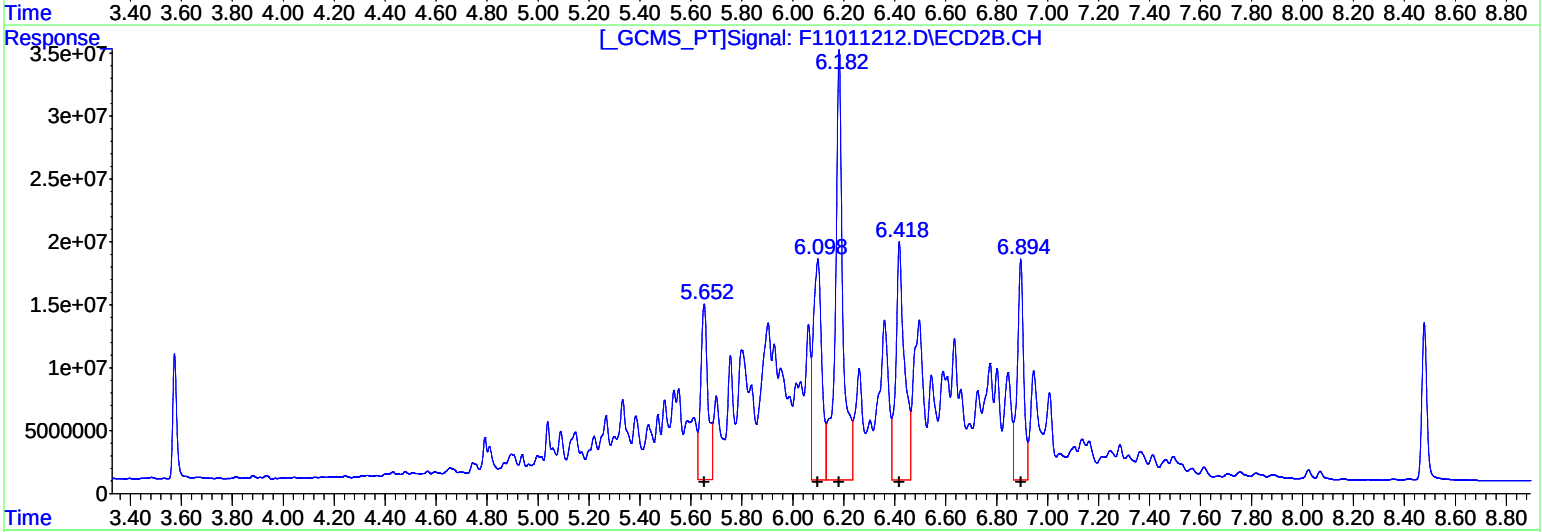
Quantitation Report (Qedit)

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

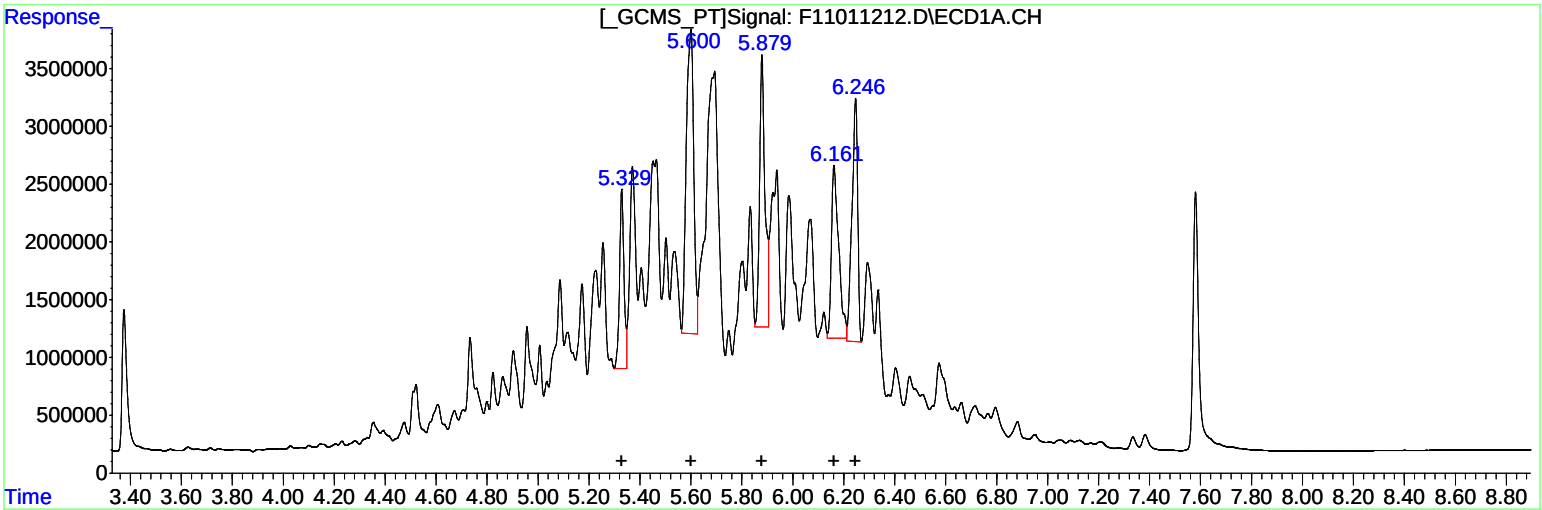
(+) = Expected Retention Time

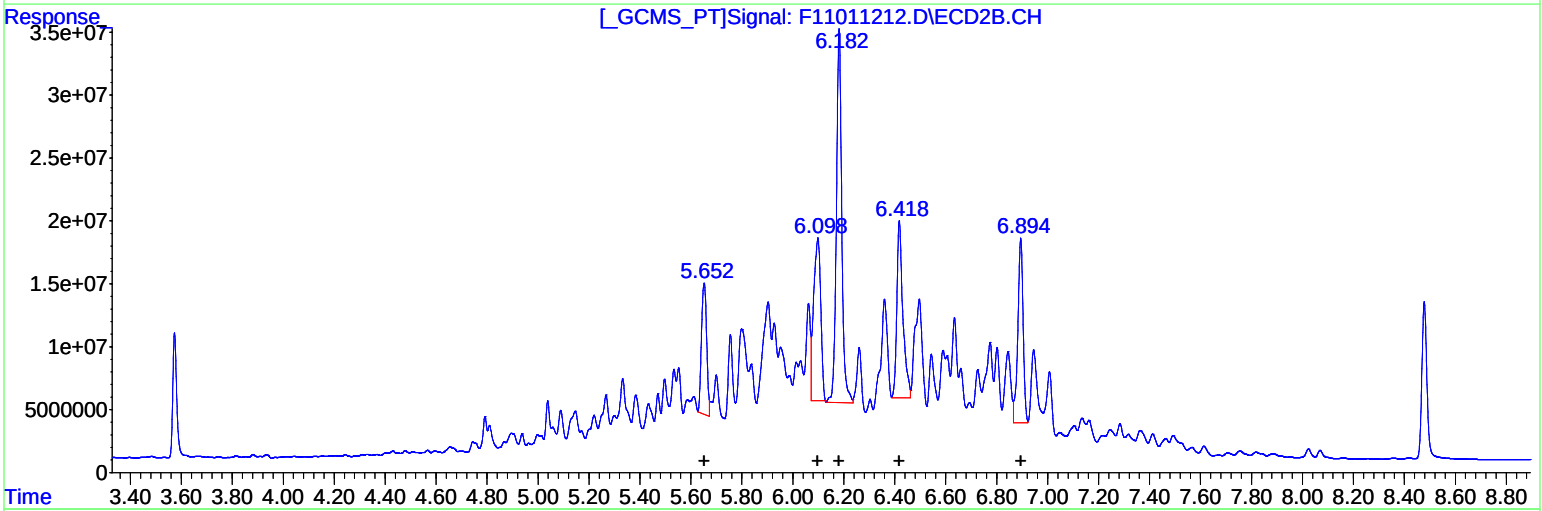
Quantitation Report (Qedit)

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





(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

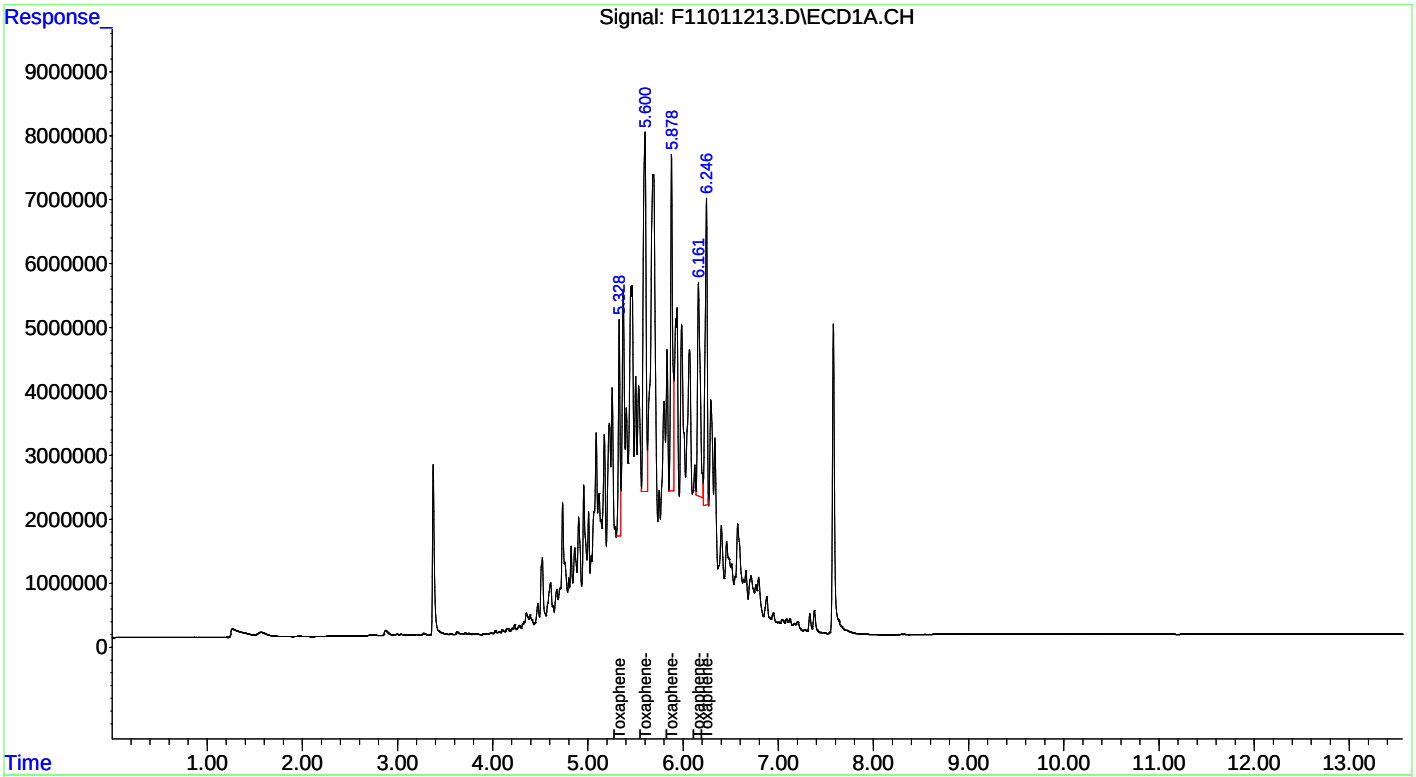
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

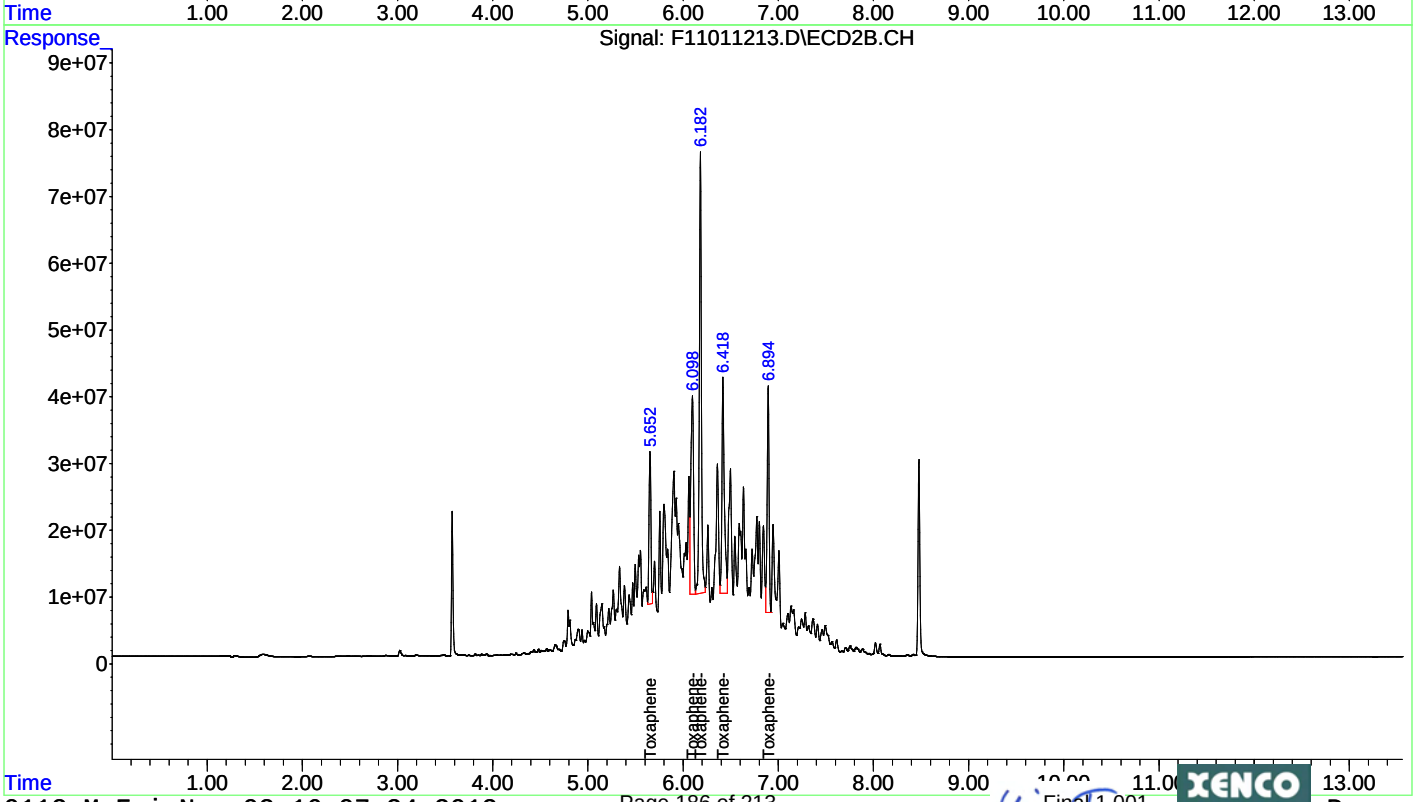
Quantitation Report (Not Reviewed)

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



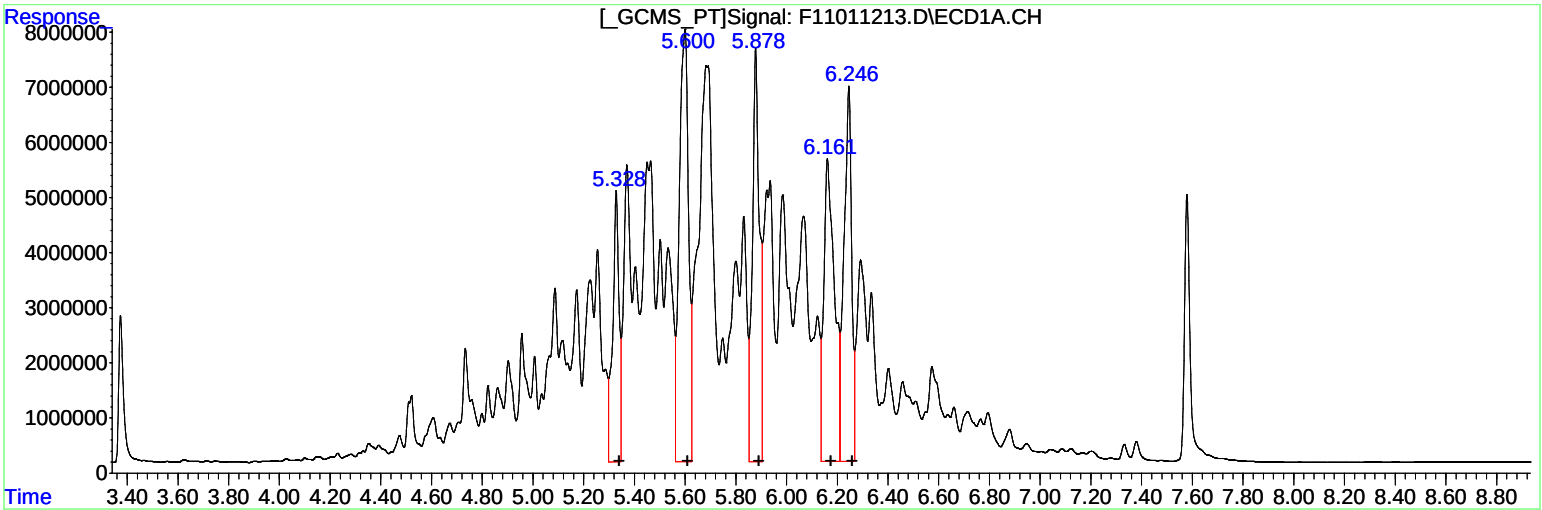


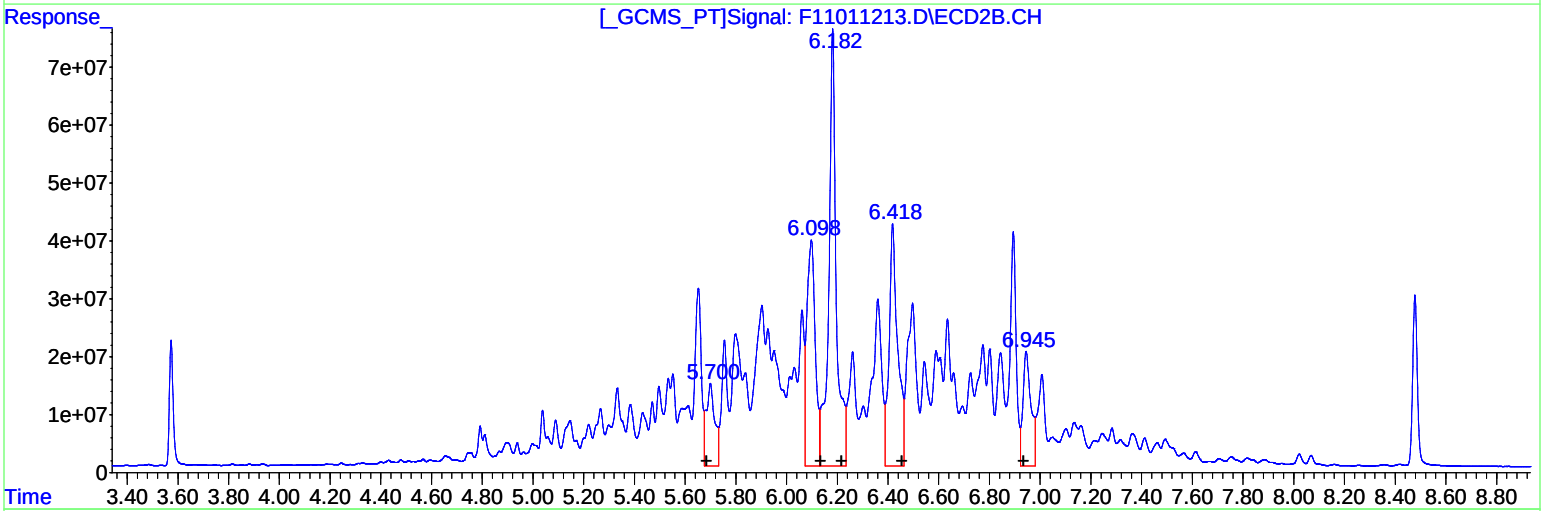
Quantitation Report (Qedit)

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

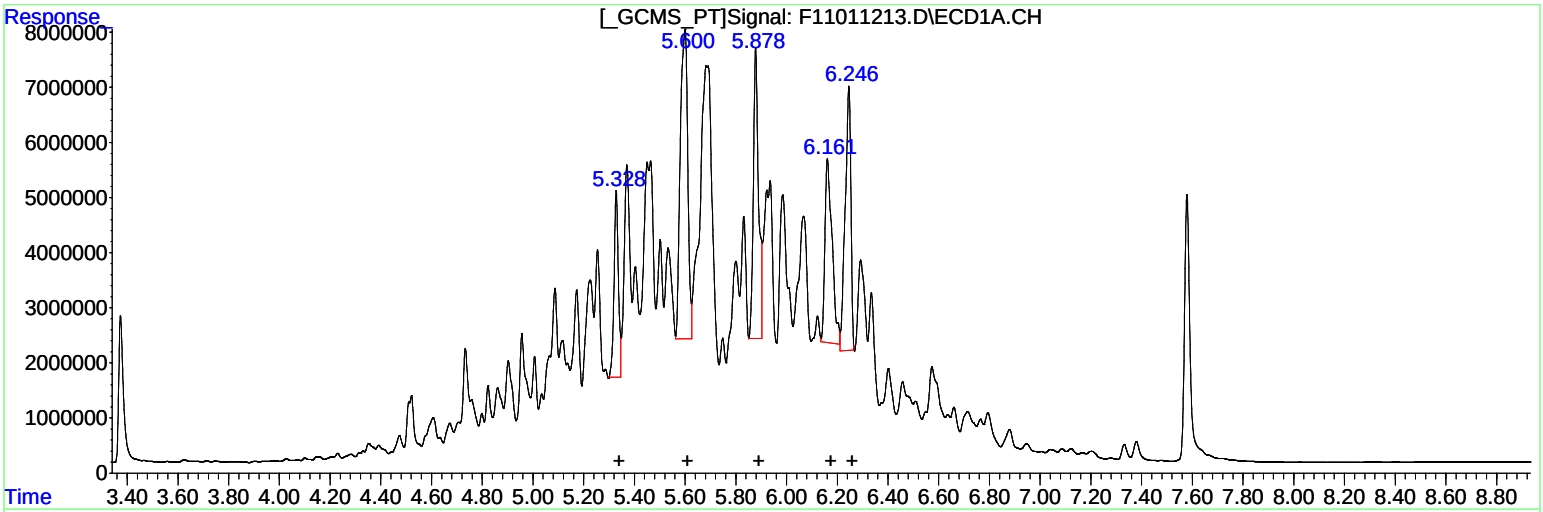
(+) = Expected Retention Time

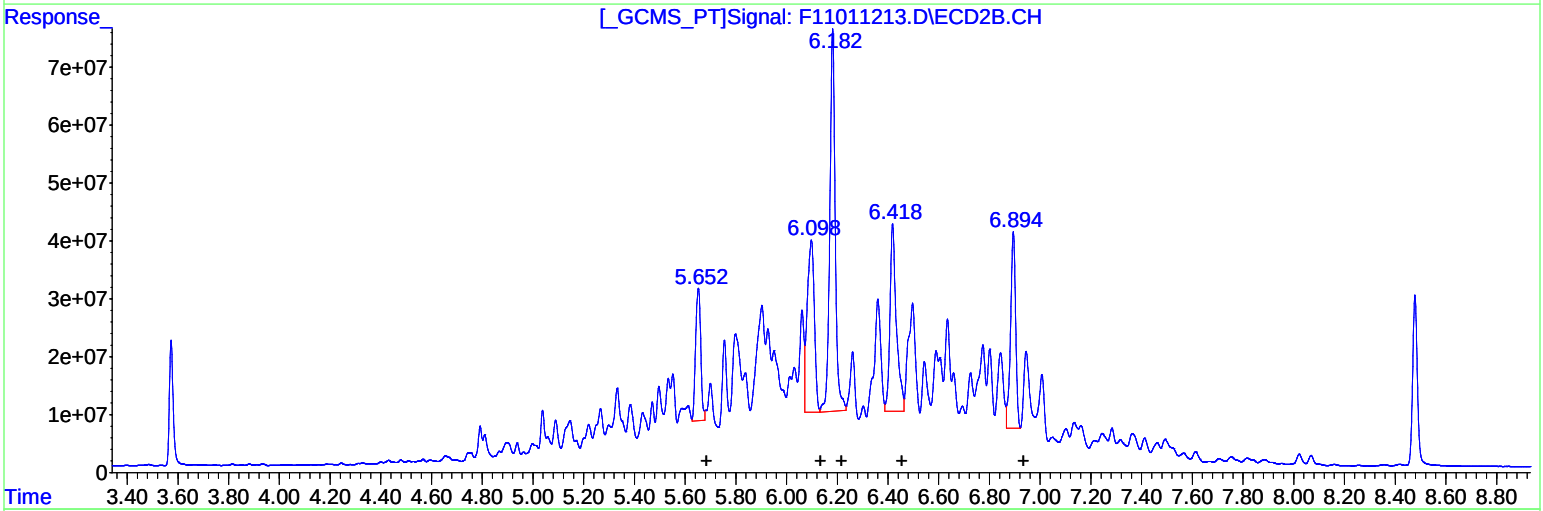
Quantitation Report (Qedit)

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

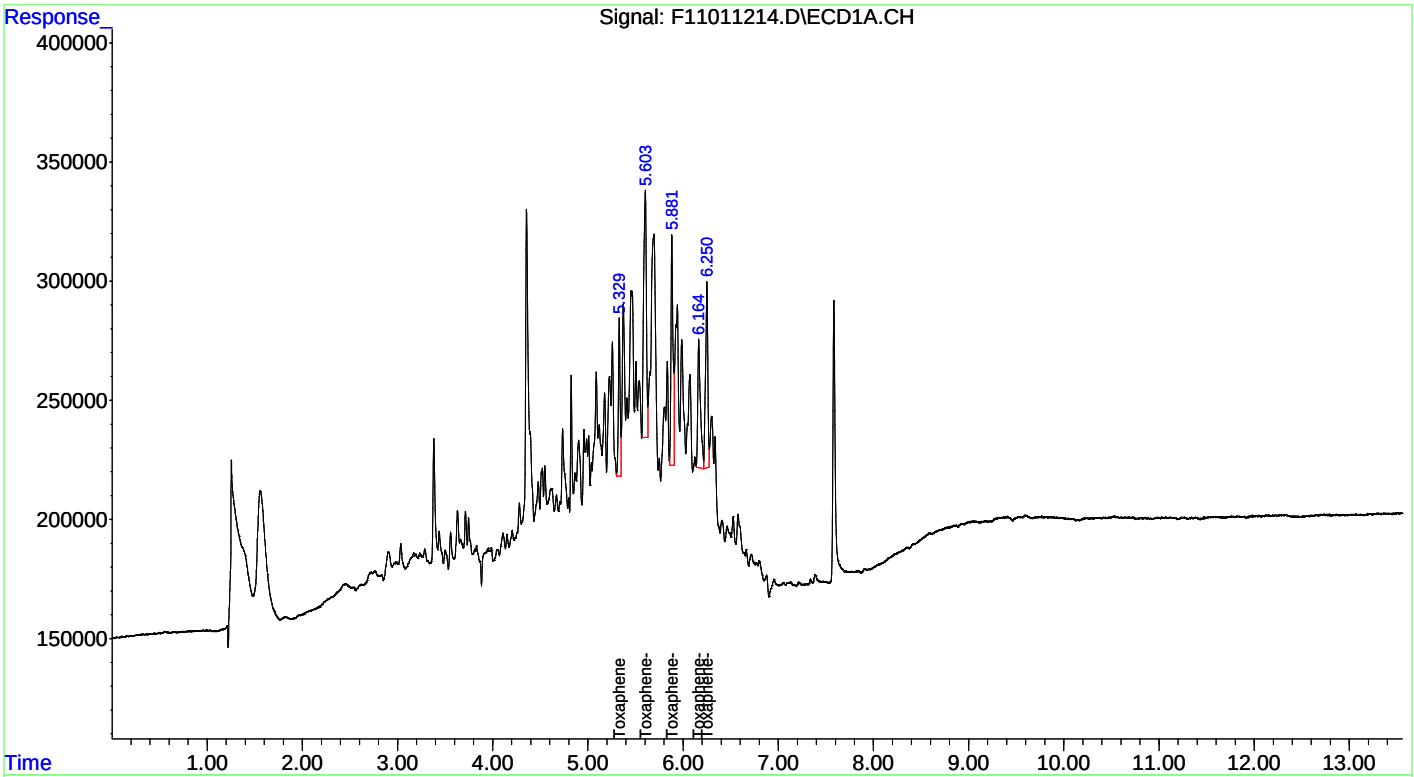
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

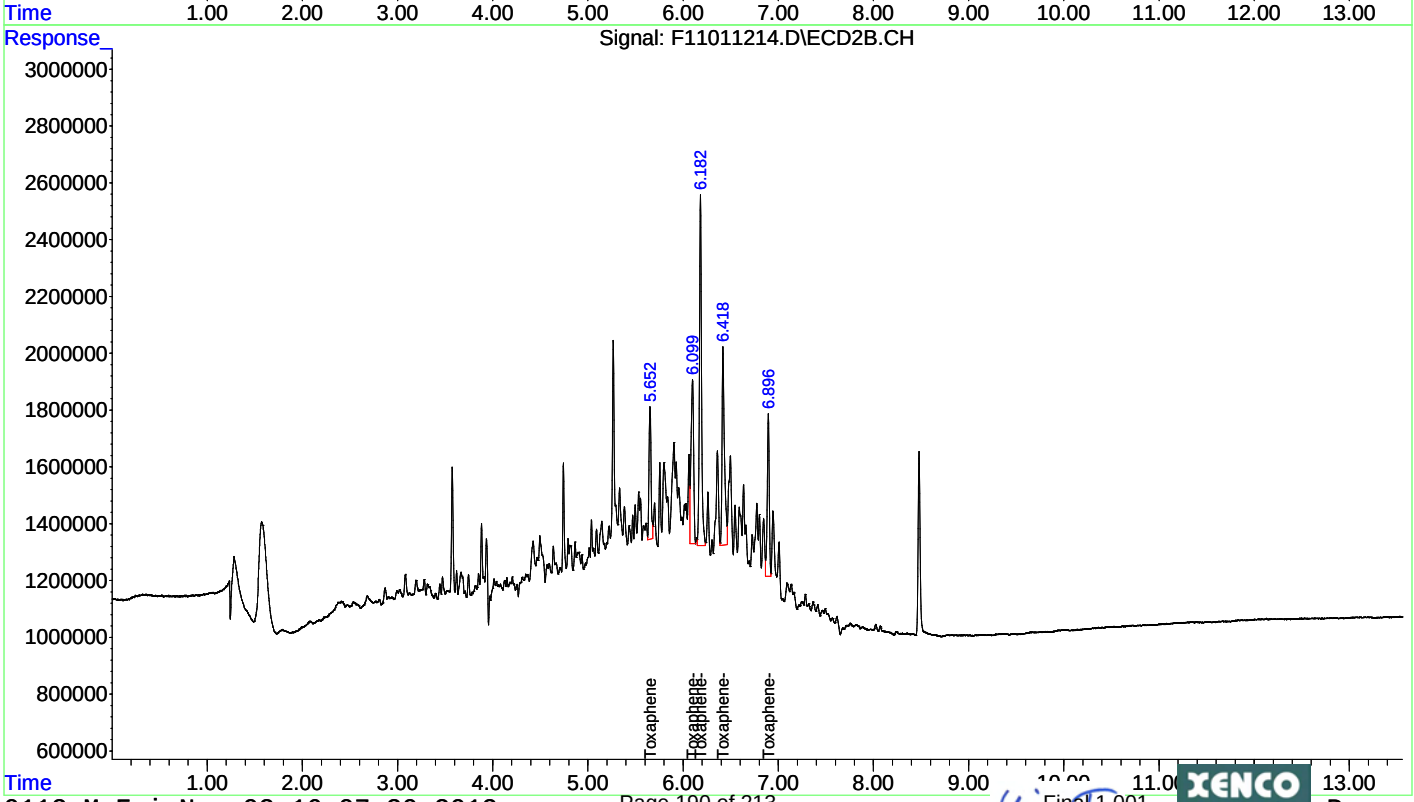
Quantitation Report (Not Reviewed)

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



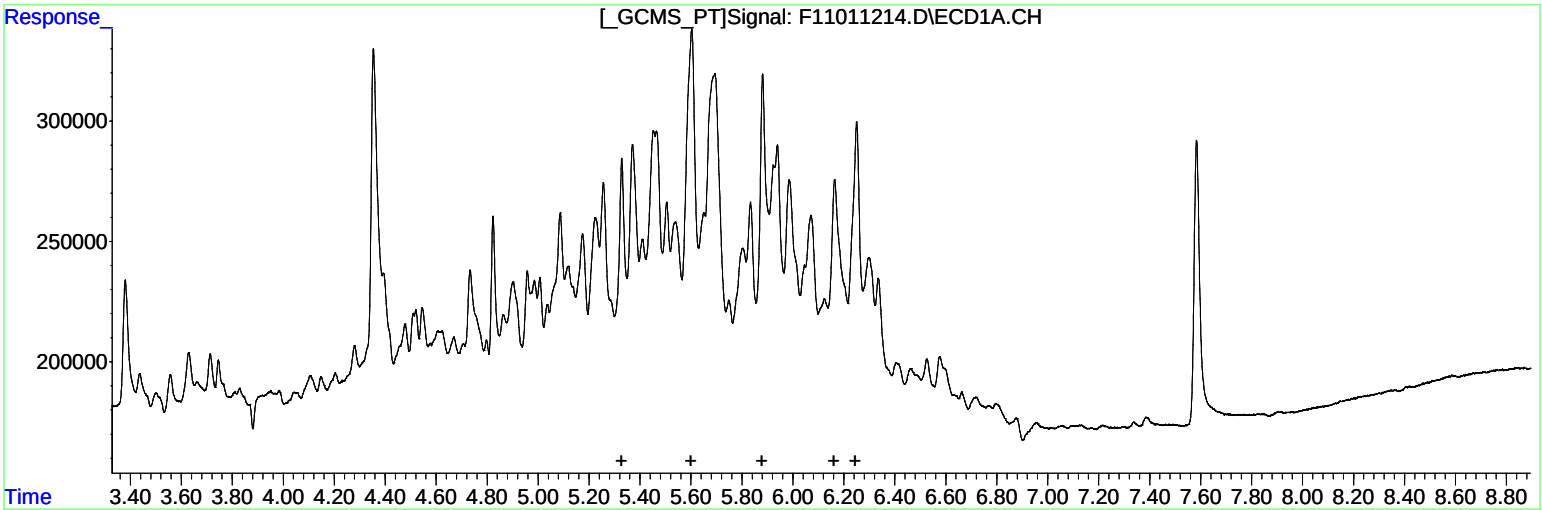


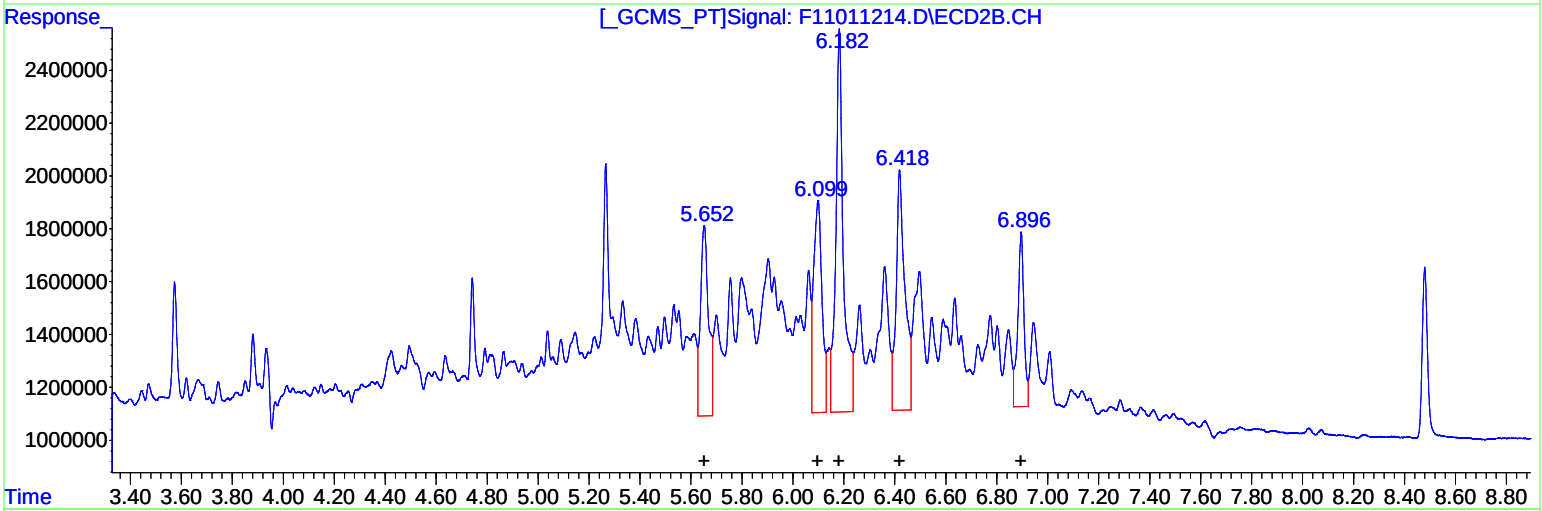
Quantitation Report (Qedit)

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





(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

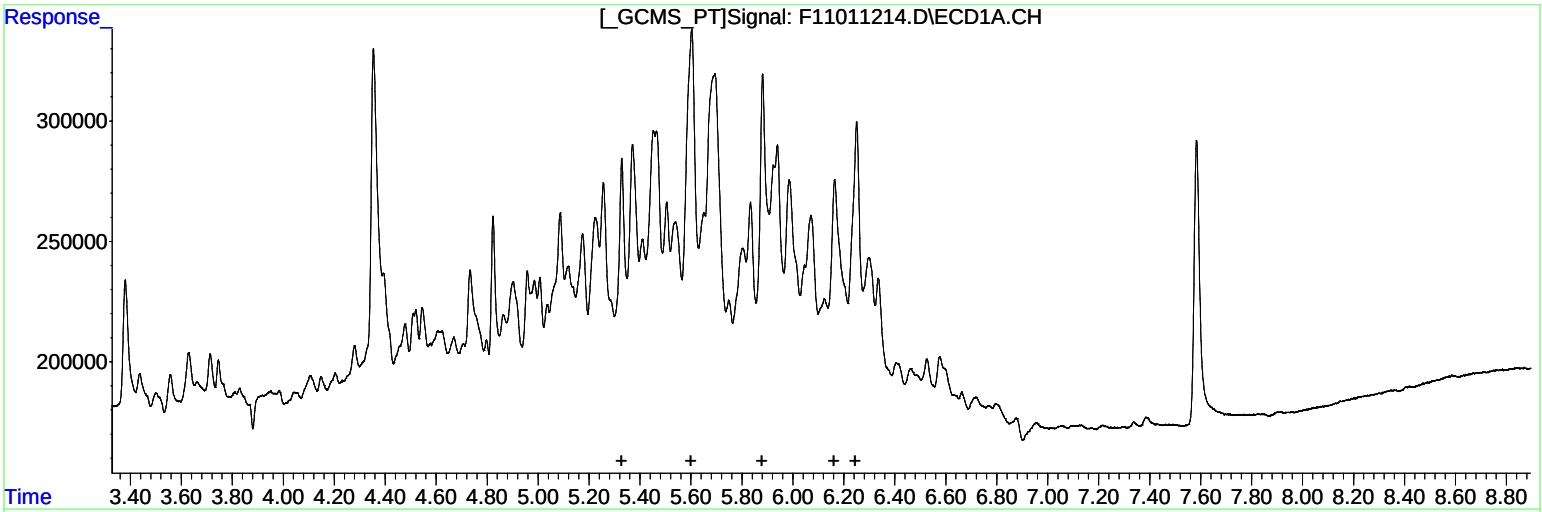
(+) = Expected Retention Time

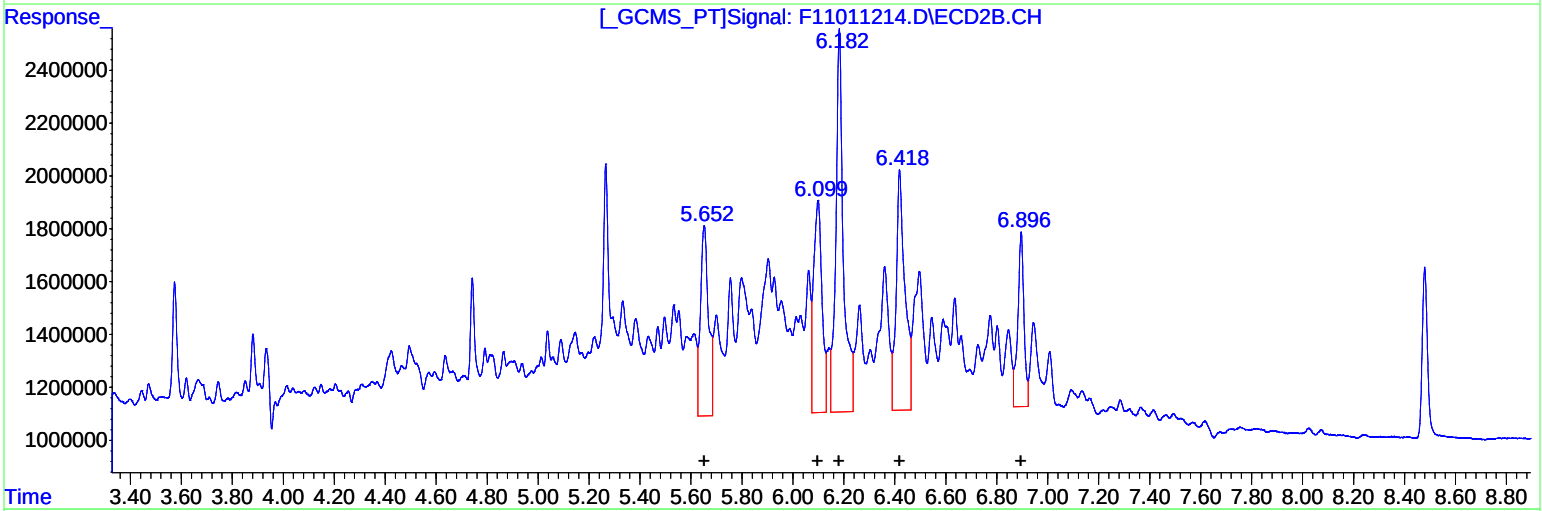
Quantitation Report (Qedit)

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

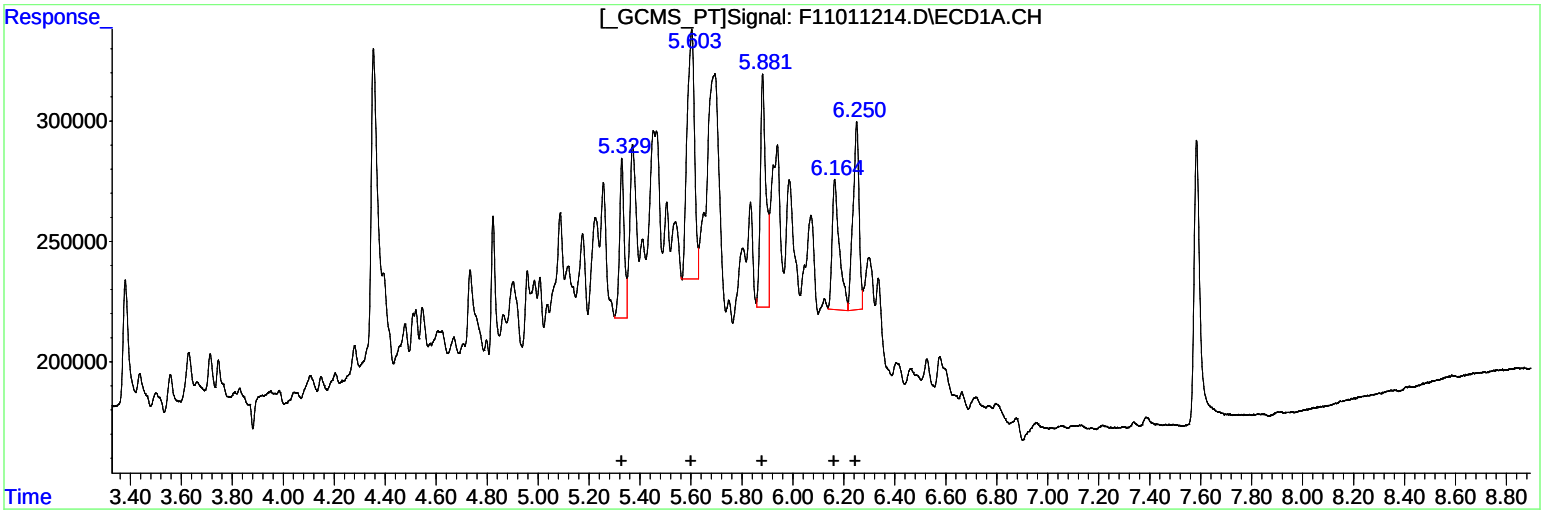
(+) = Expected Retention Time

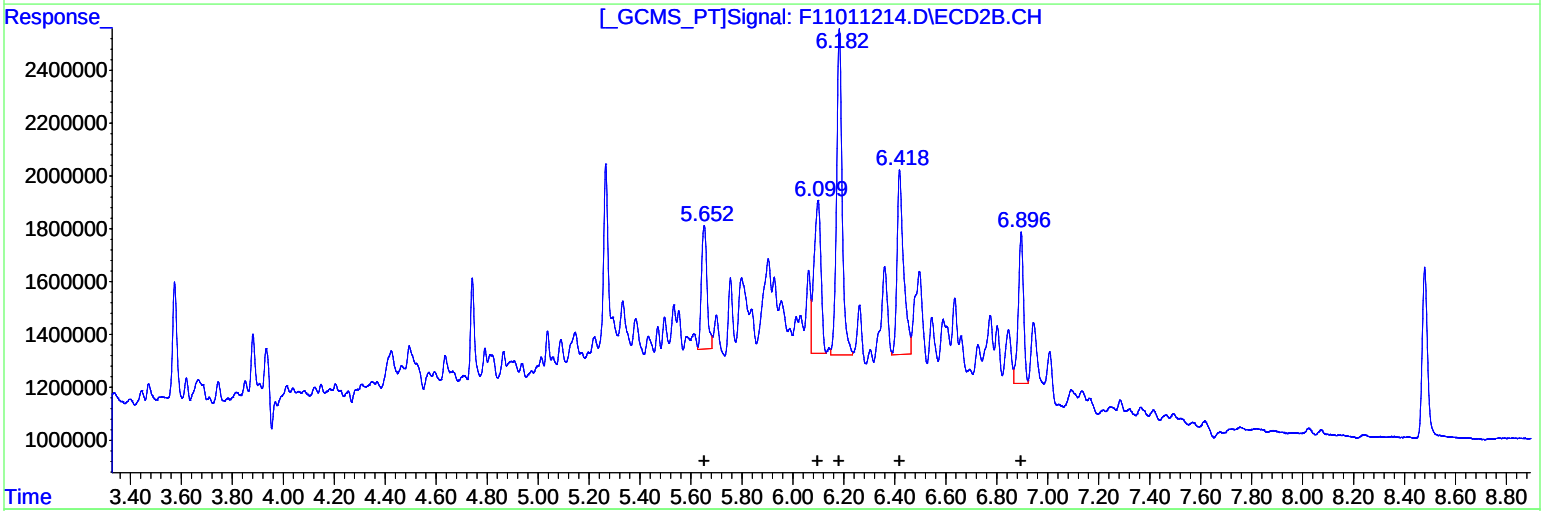
Quantitation Report (Qedit)

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





QEdit

(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

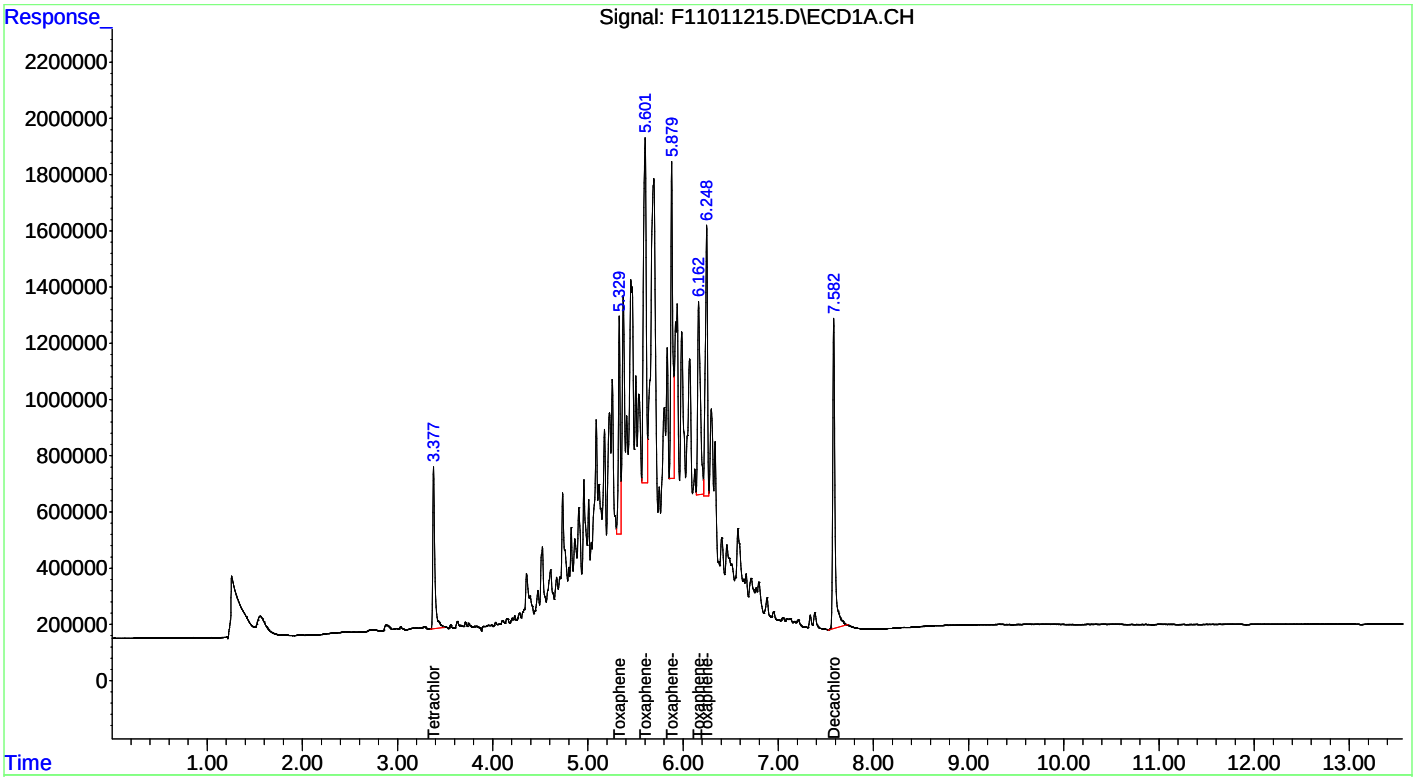
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

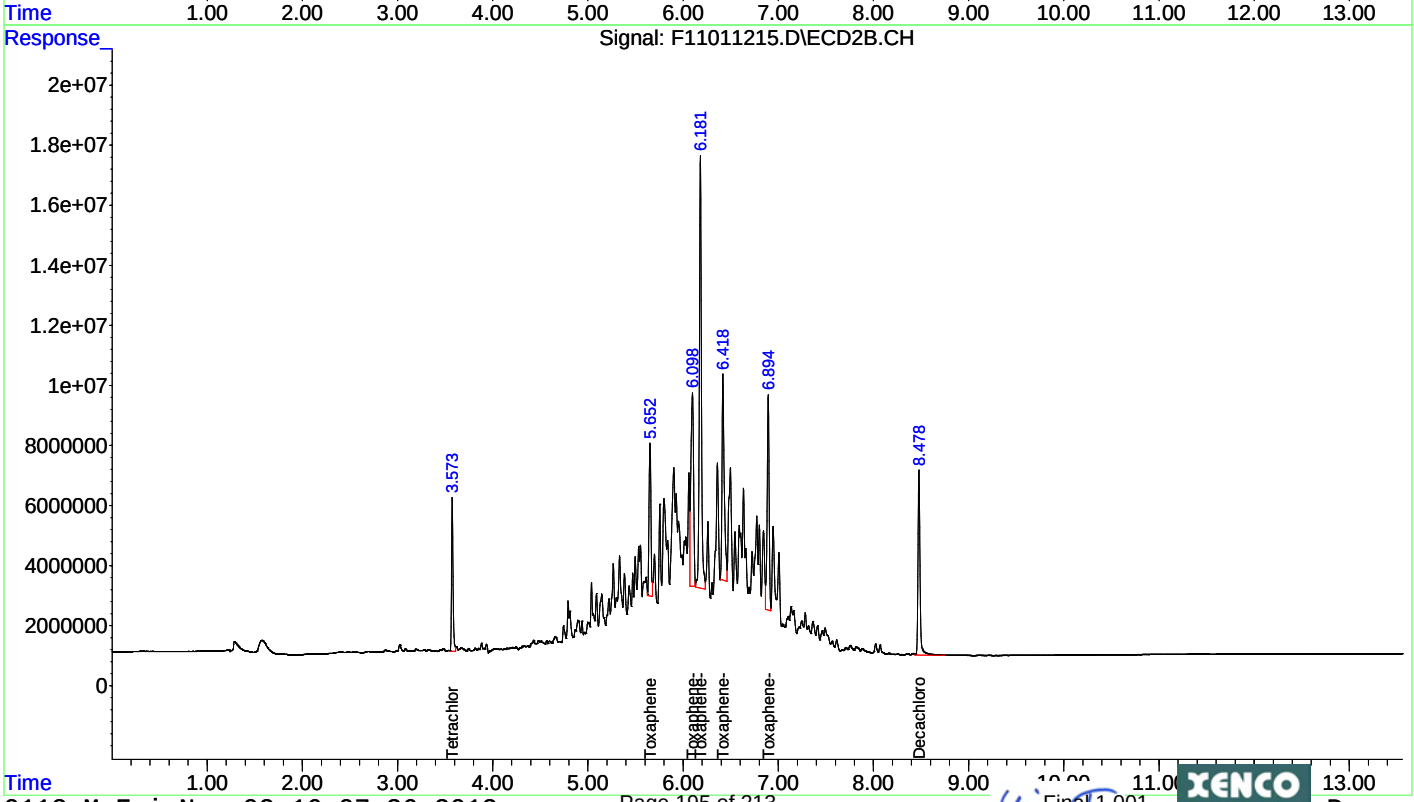
Quantitation Report (Not Reviewed)

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



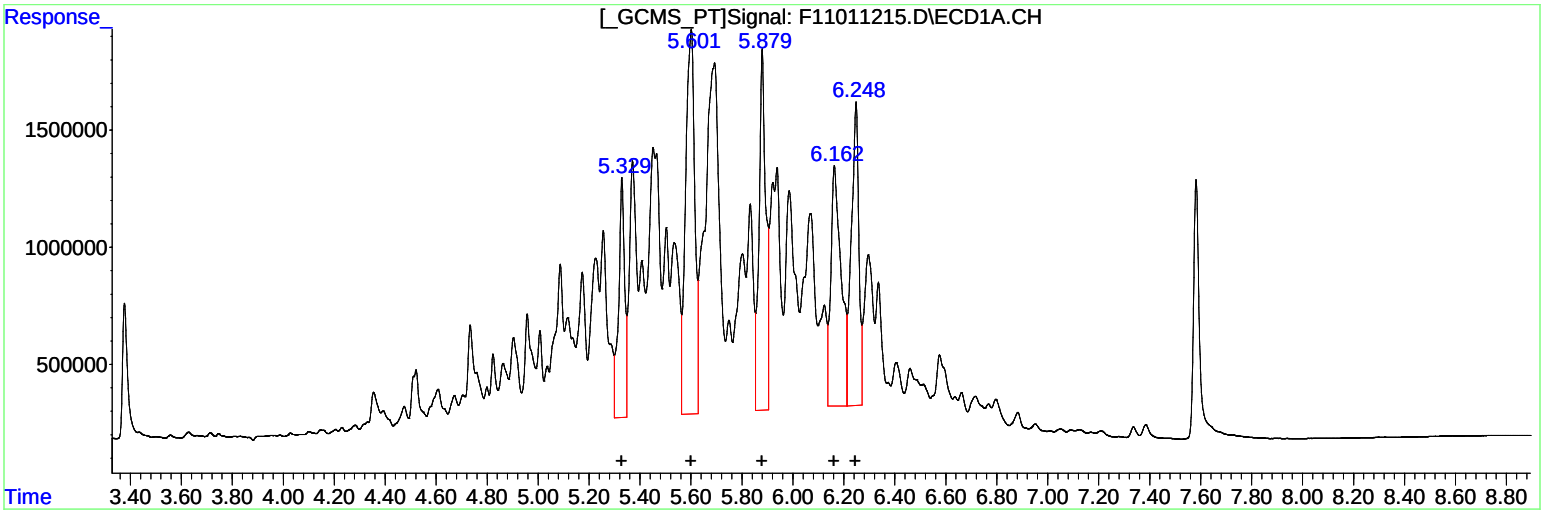


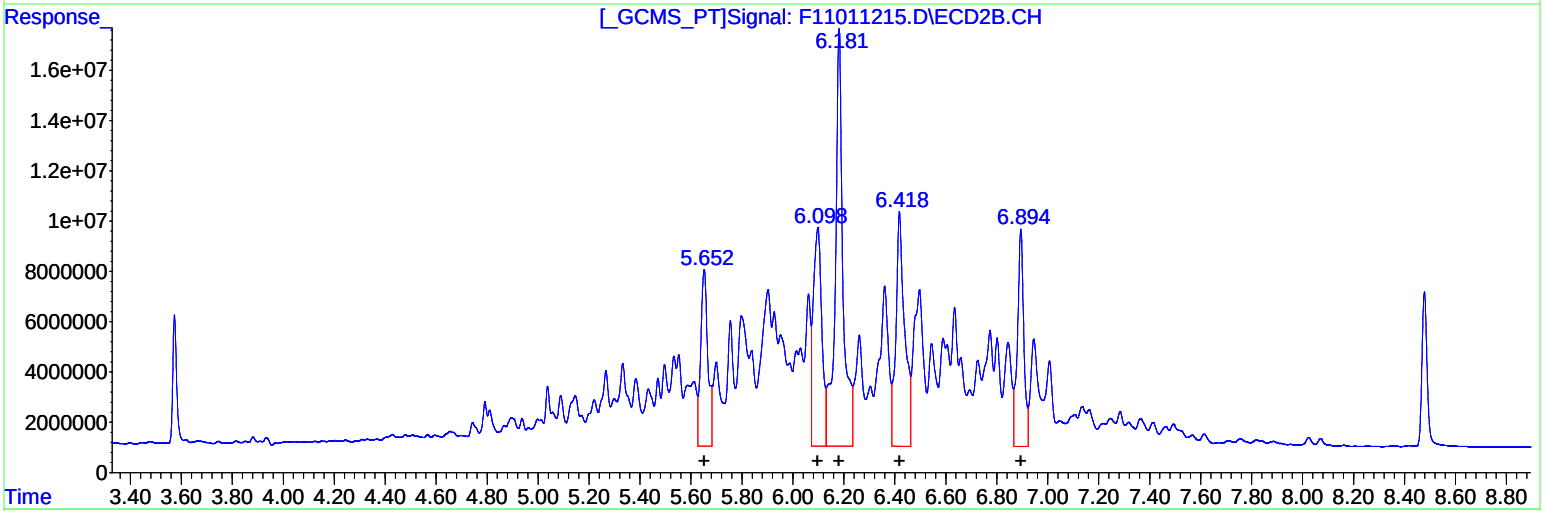
Quantitation Report (Qedit)

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

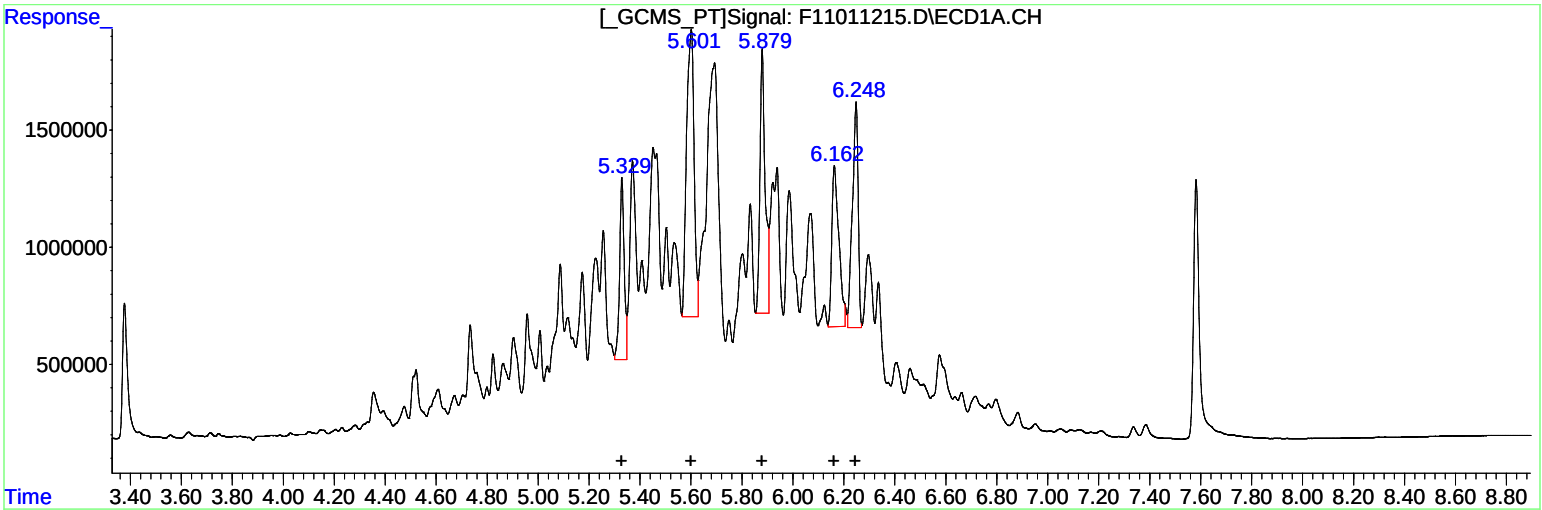
(+) = Expected Retention Time

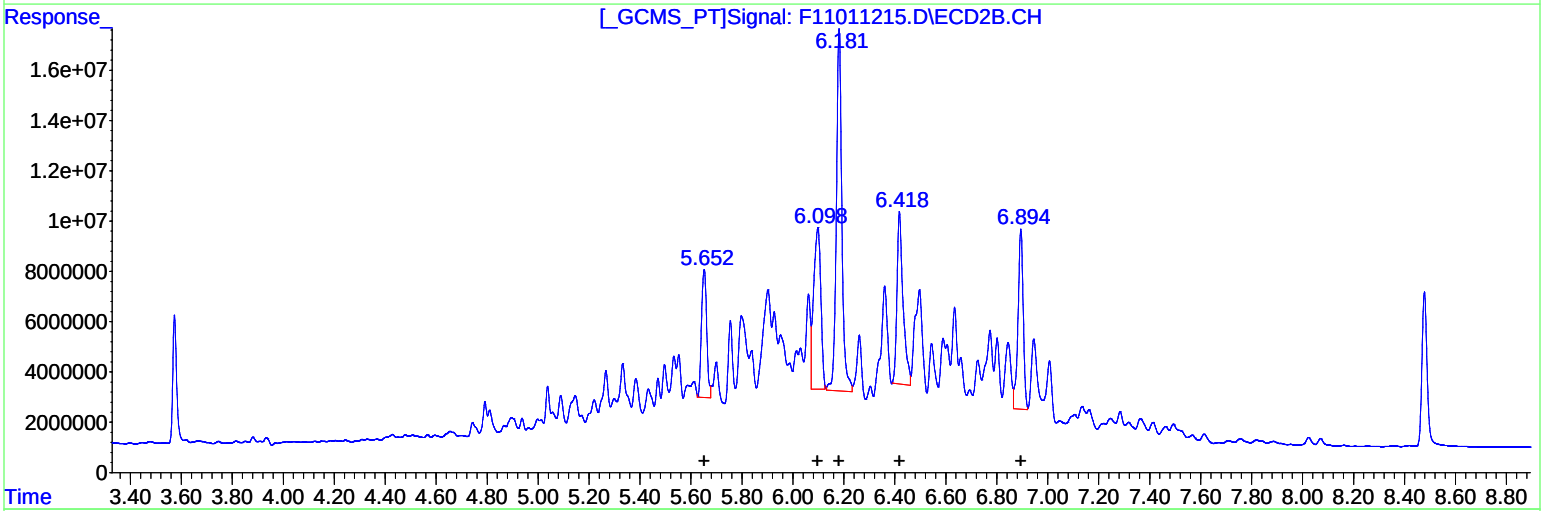
Quantitation Report (Qedit)

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





(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

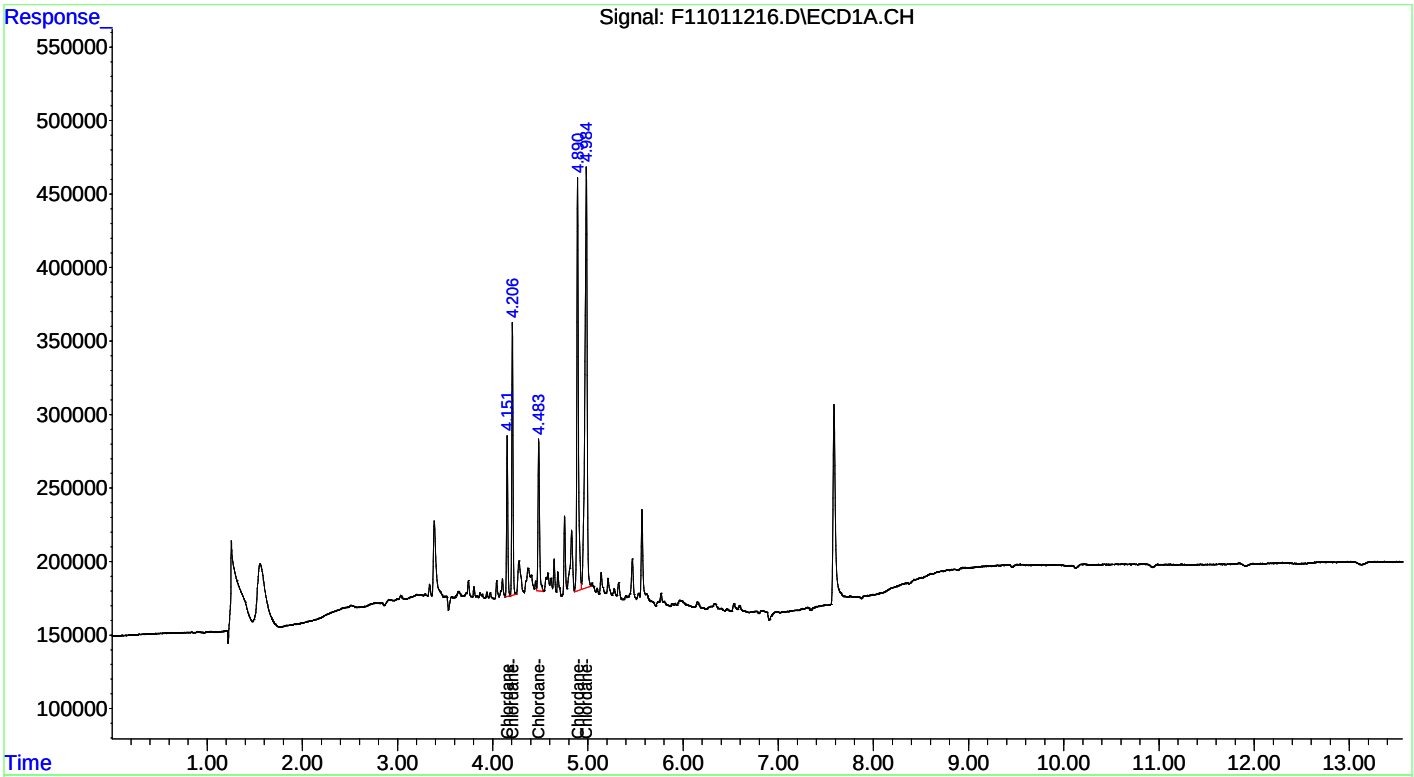
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

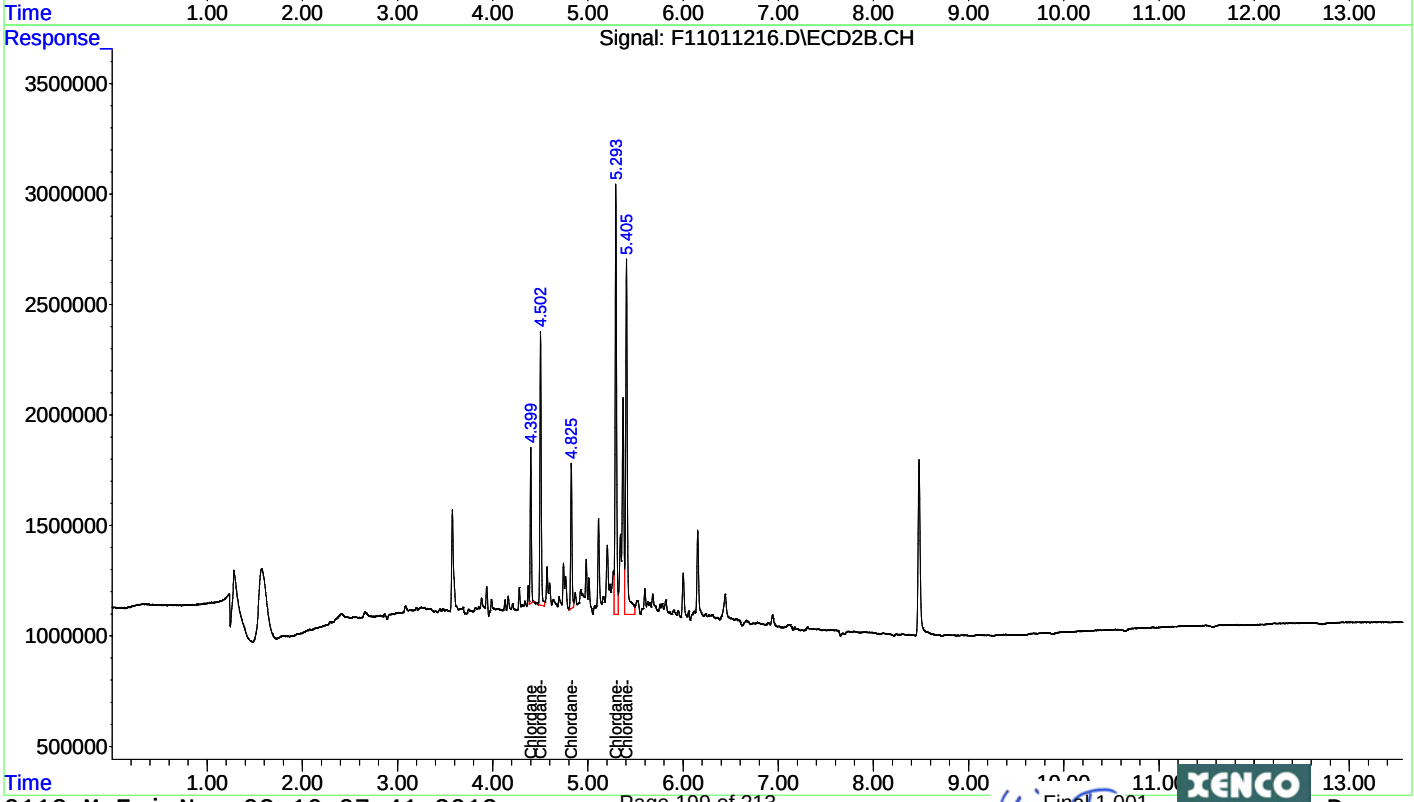
Quantitation Report (Not Reviewed)

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



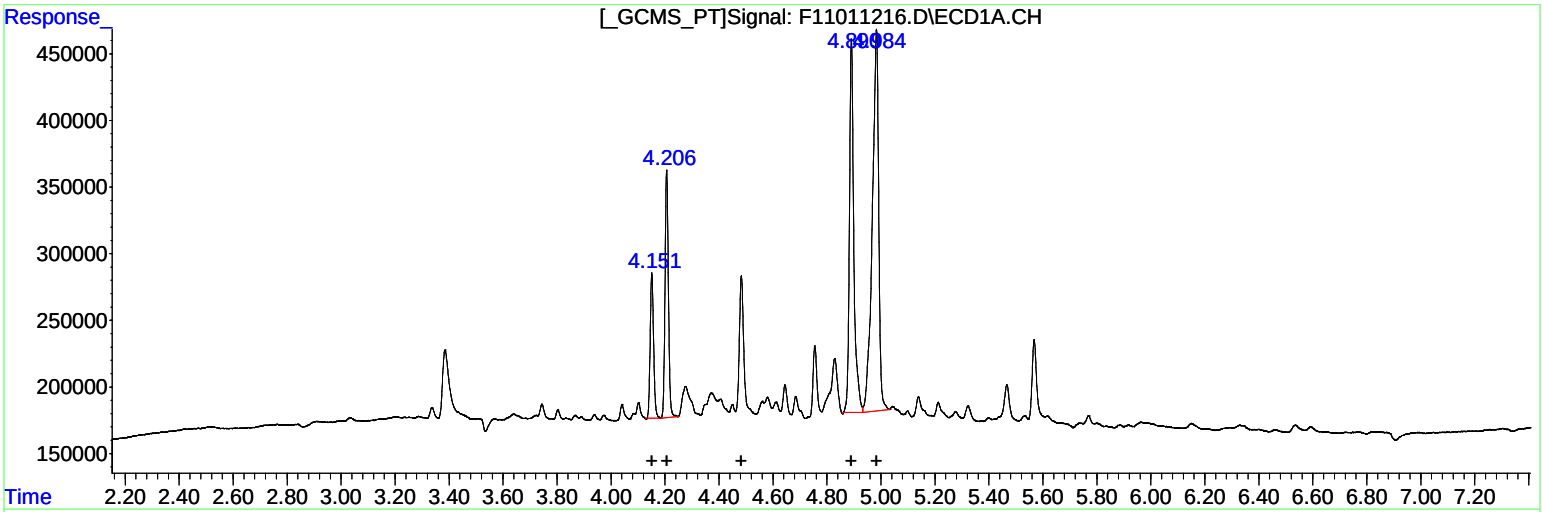


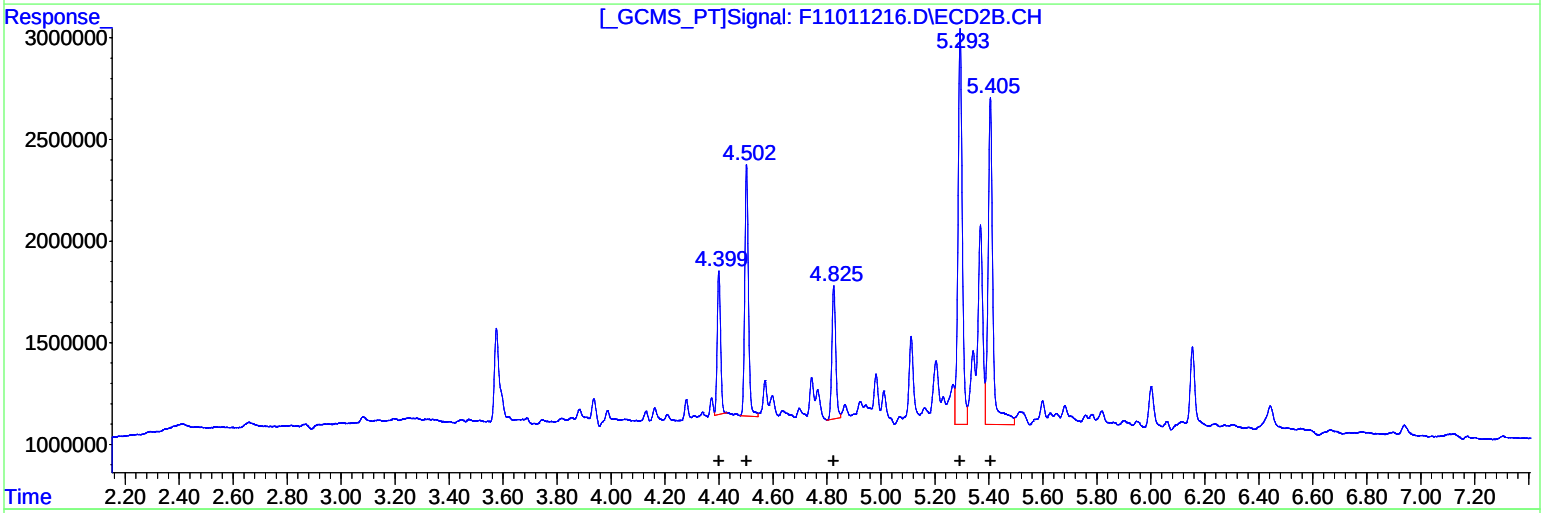
Quantitation Report (Qedit)

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





(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

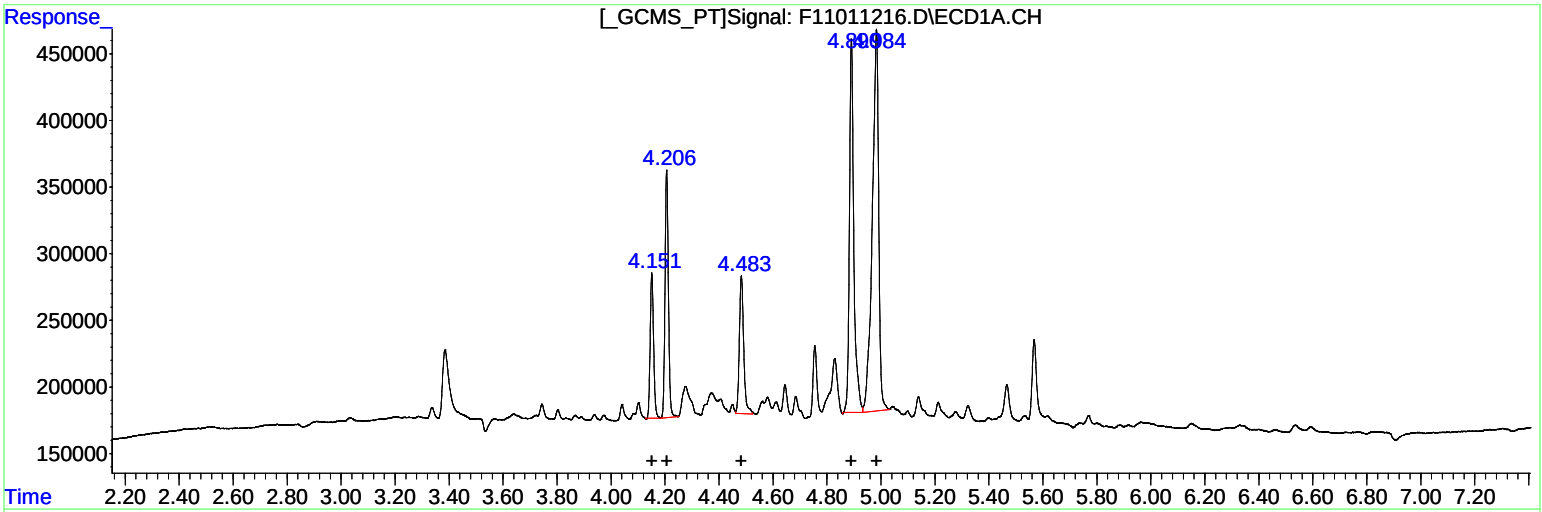
(+) = Expected Retention Time

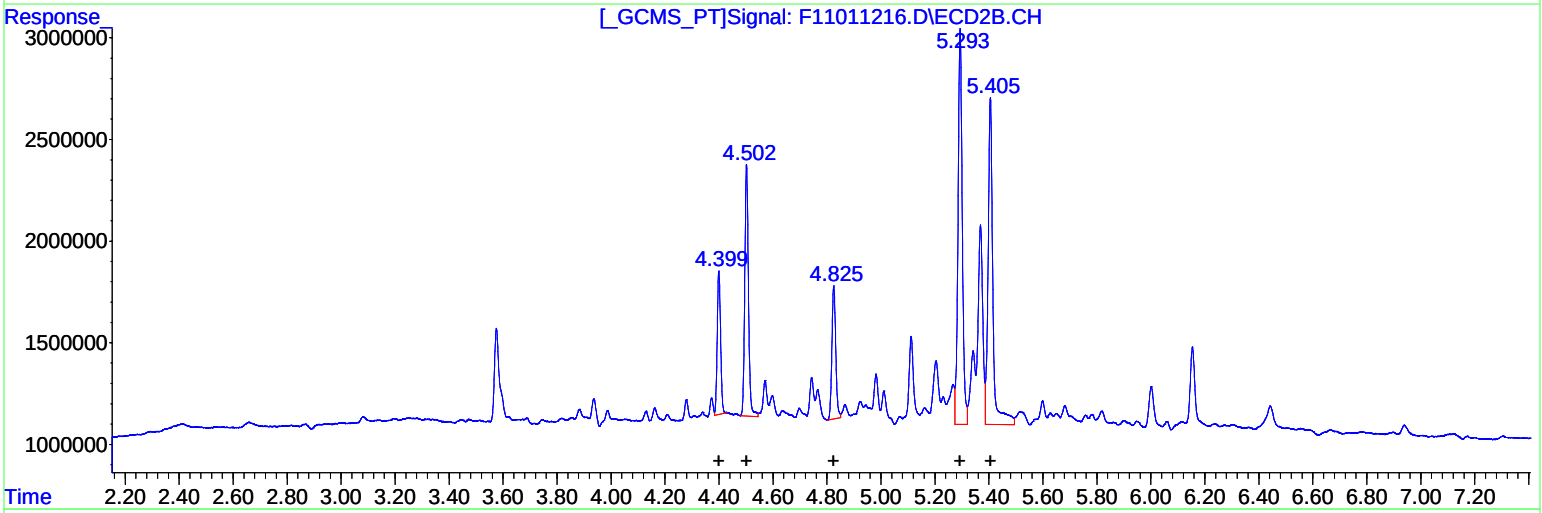
Quantitation Report (Qedit)

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

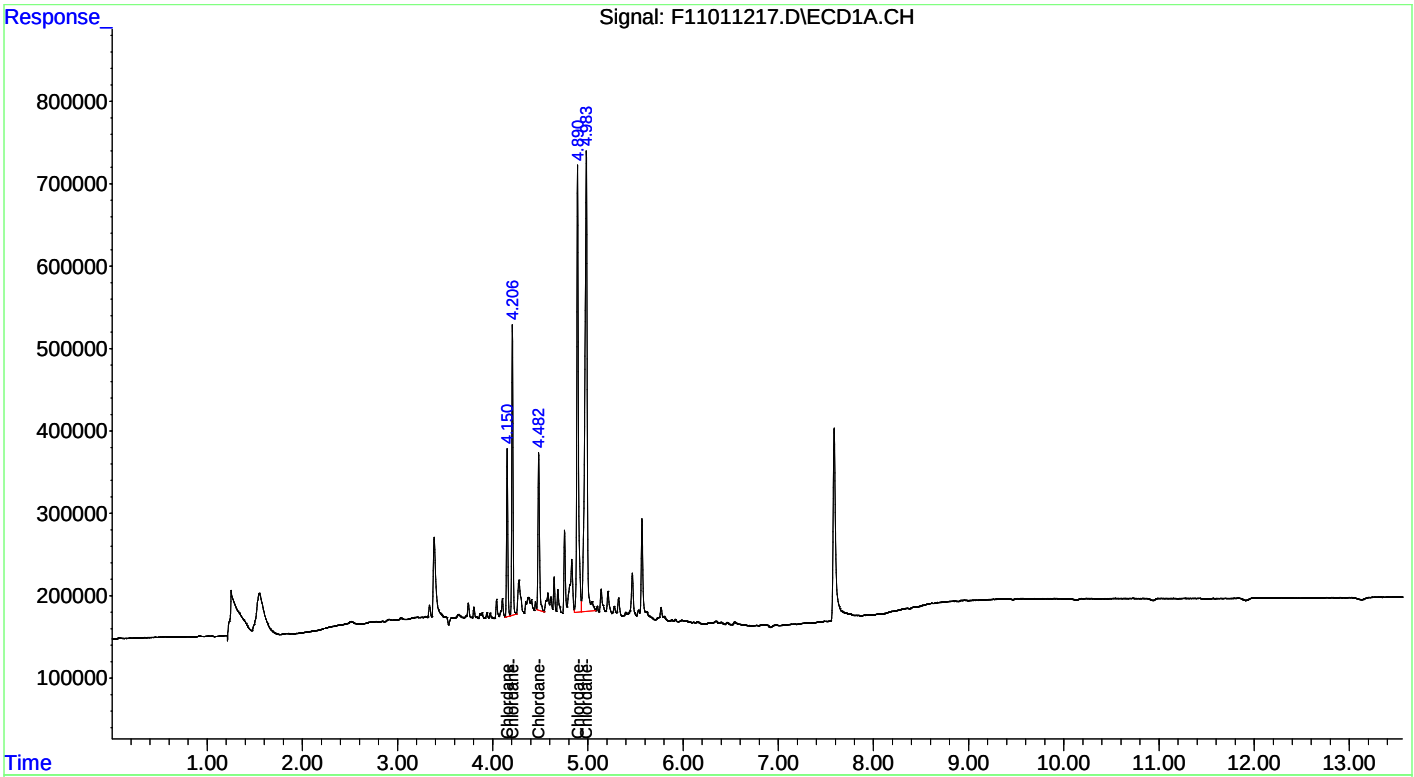
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

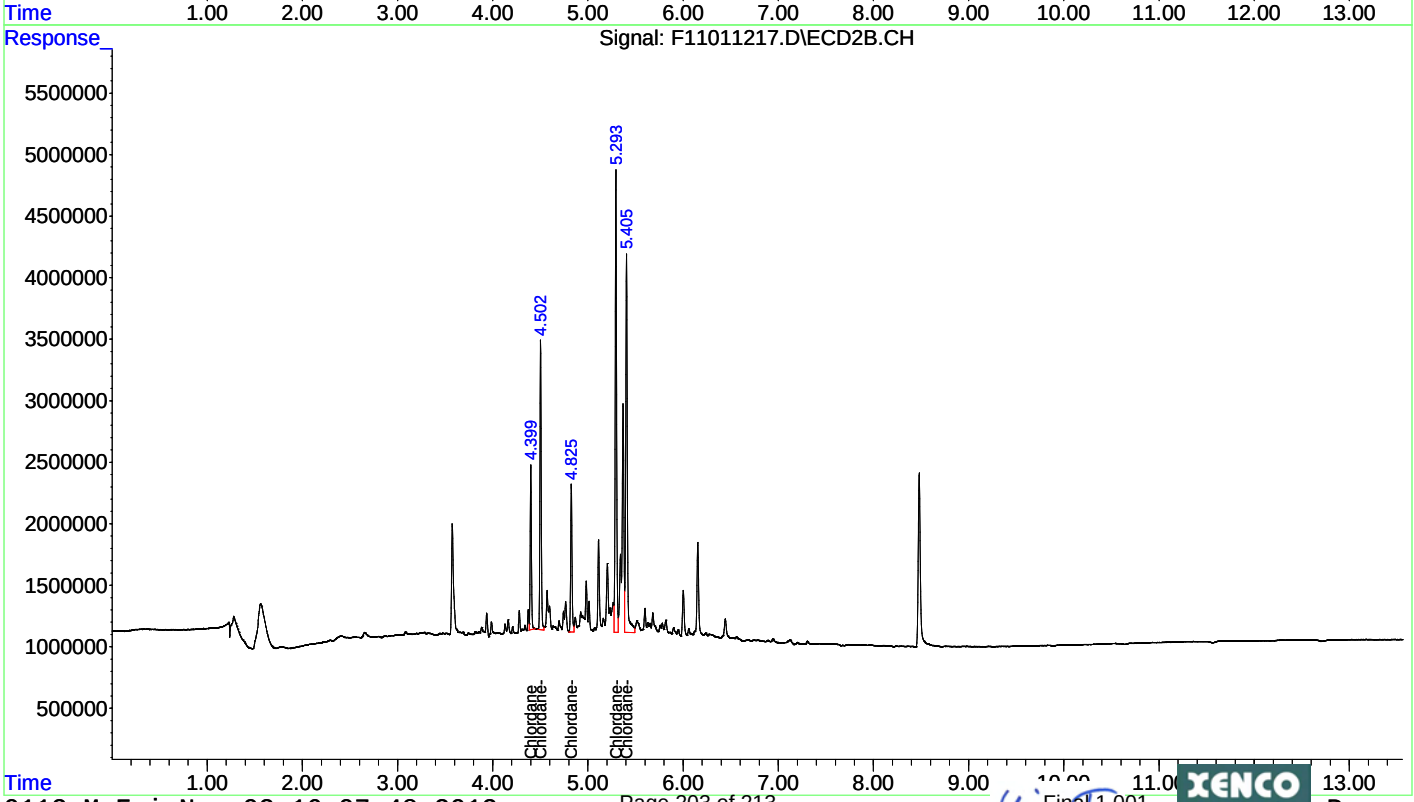
Quantitation Report (Not Reviewed)

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

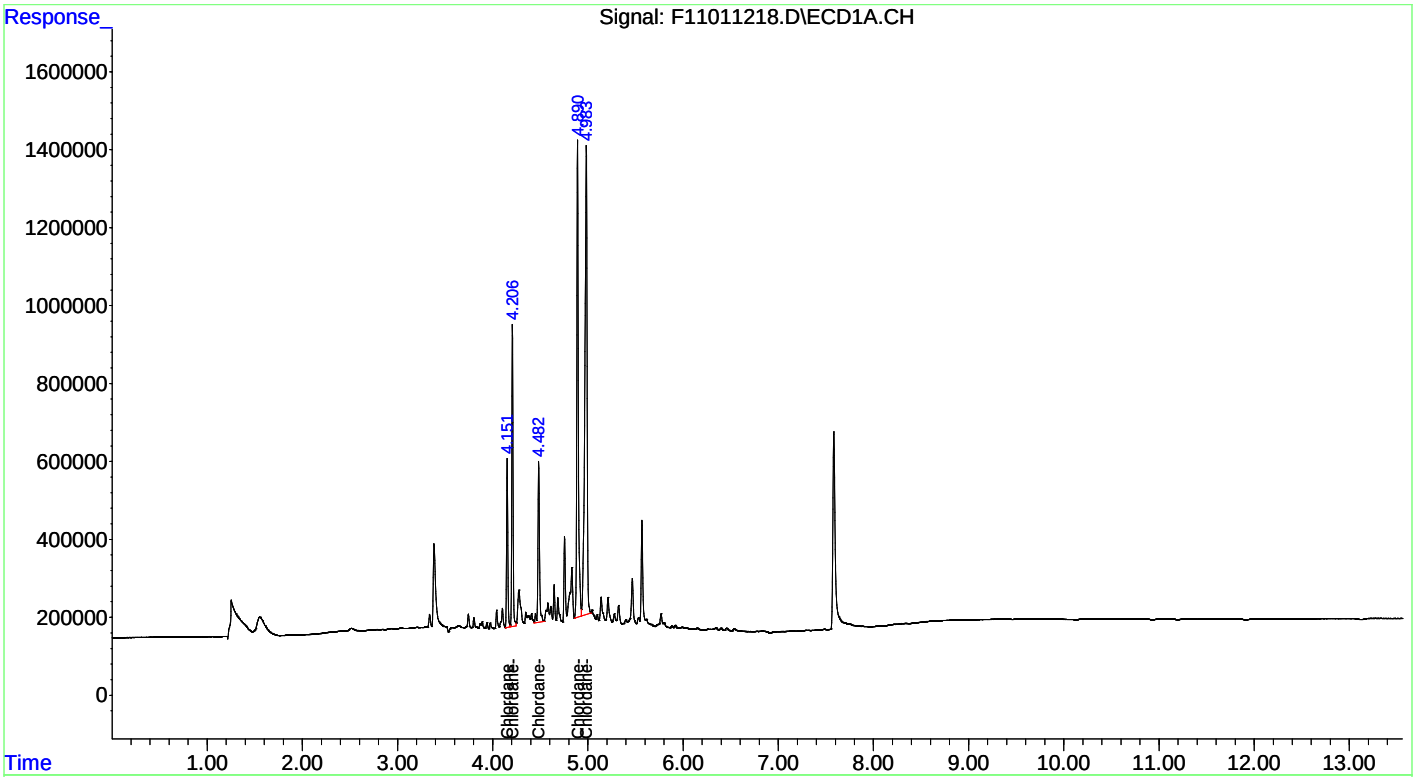
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

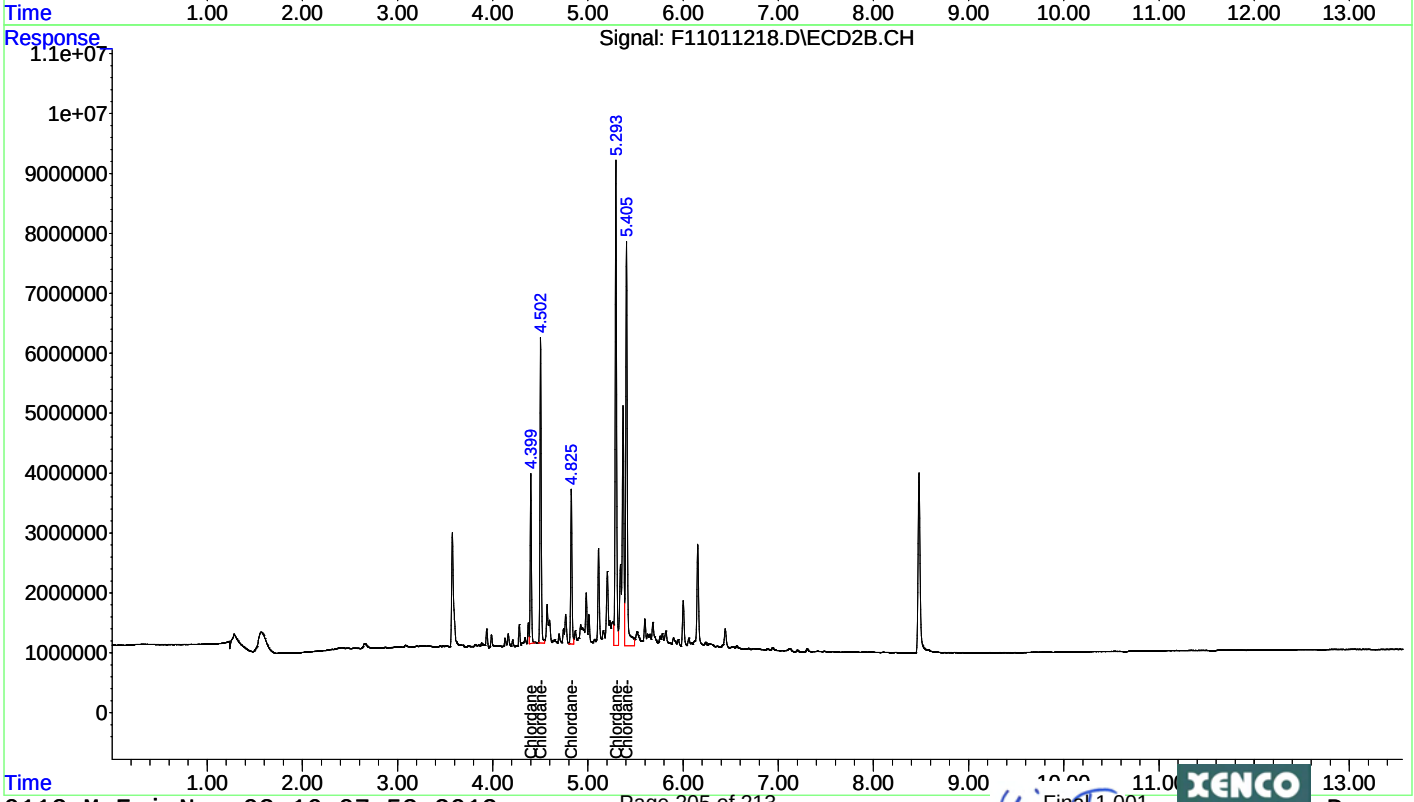
Quantitation Report (Not Reviewed)

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

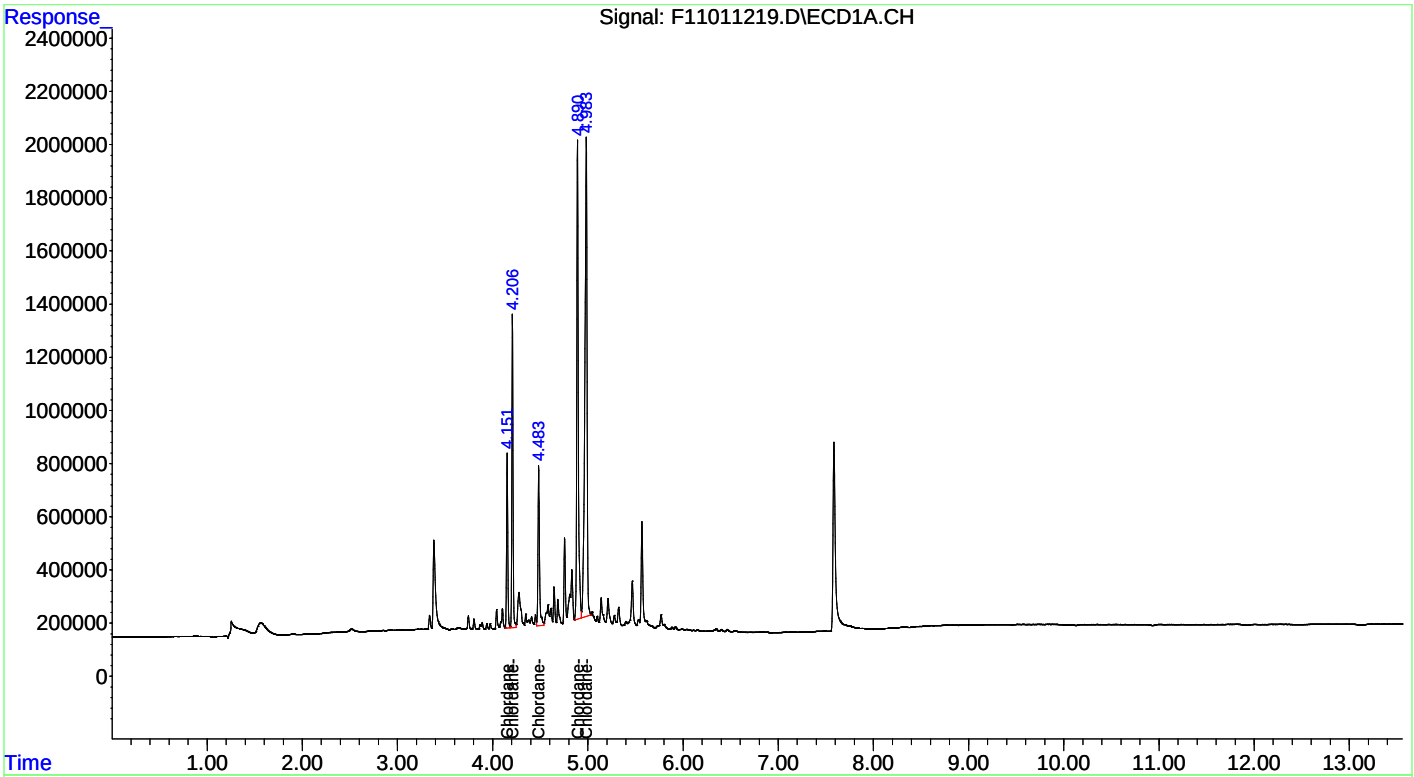
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

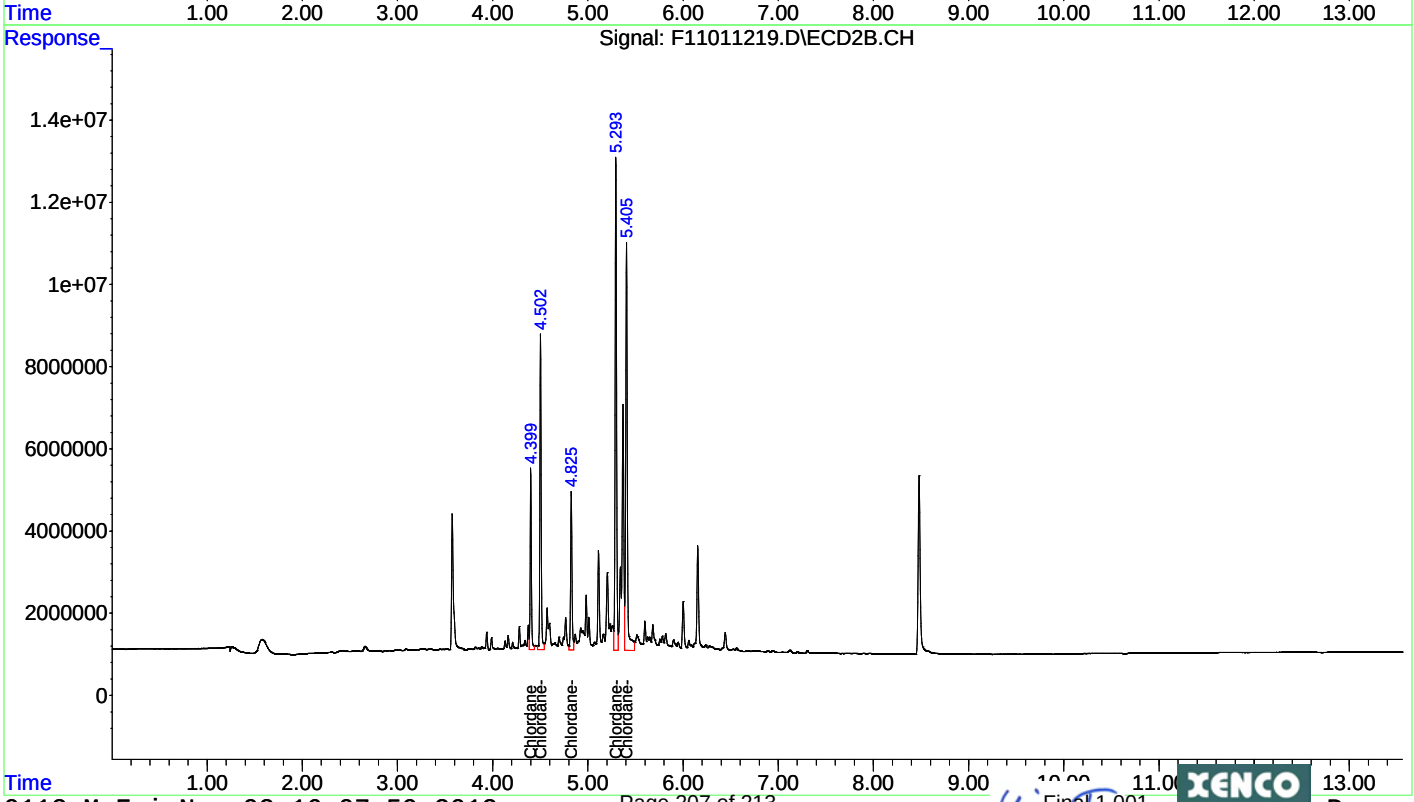
Quantitation Report (Not Reviewed)

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

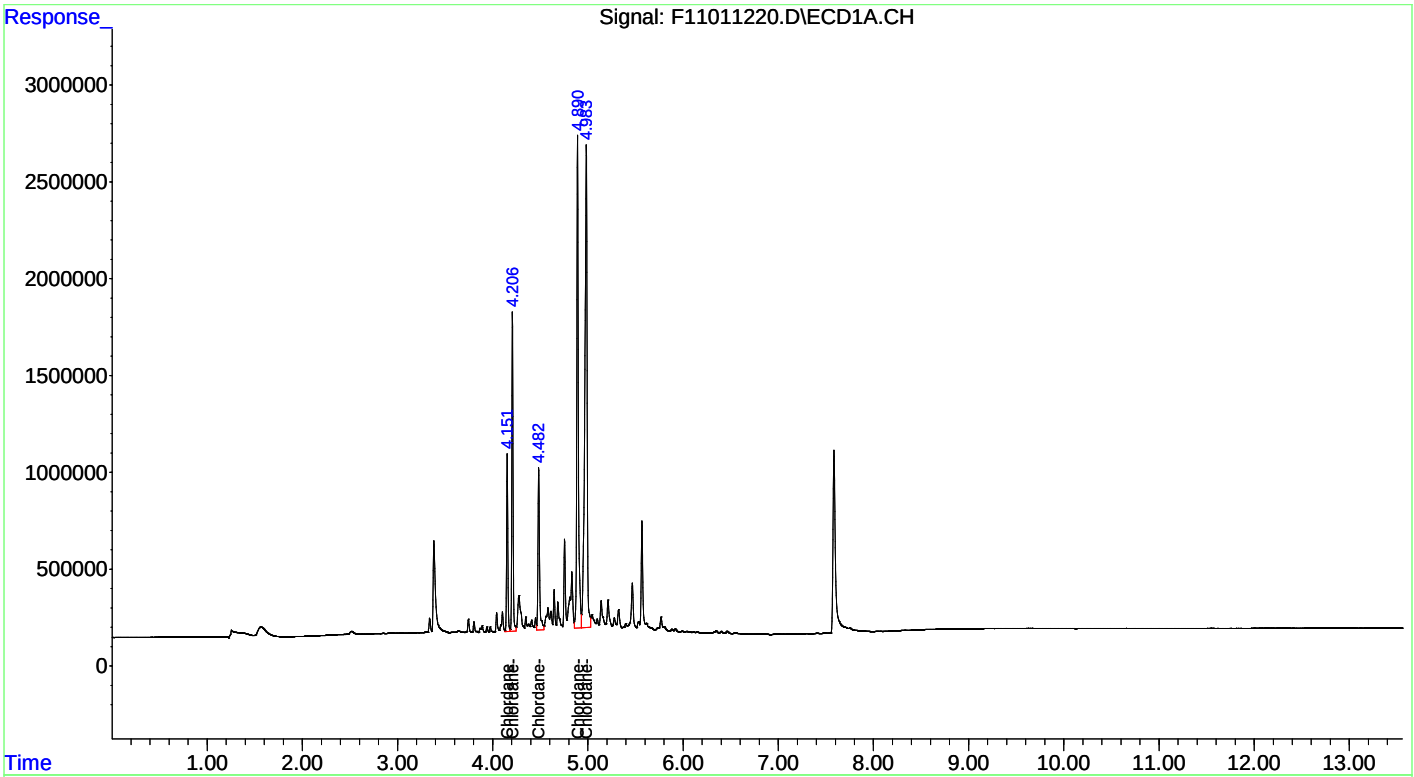
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

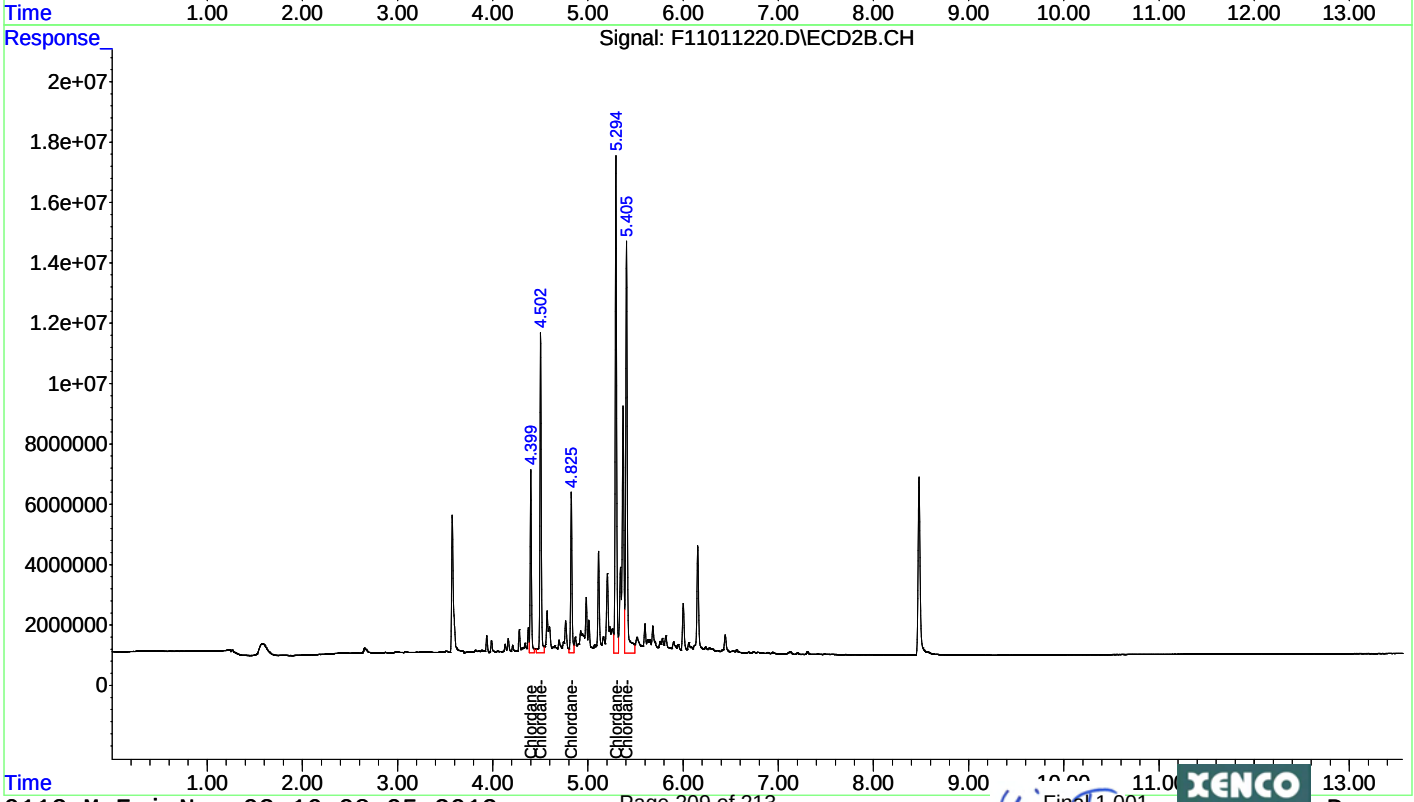
Quantitation Report (Not Reviewed)

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
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 : 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

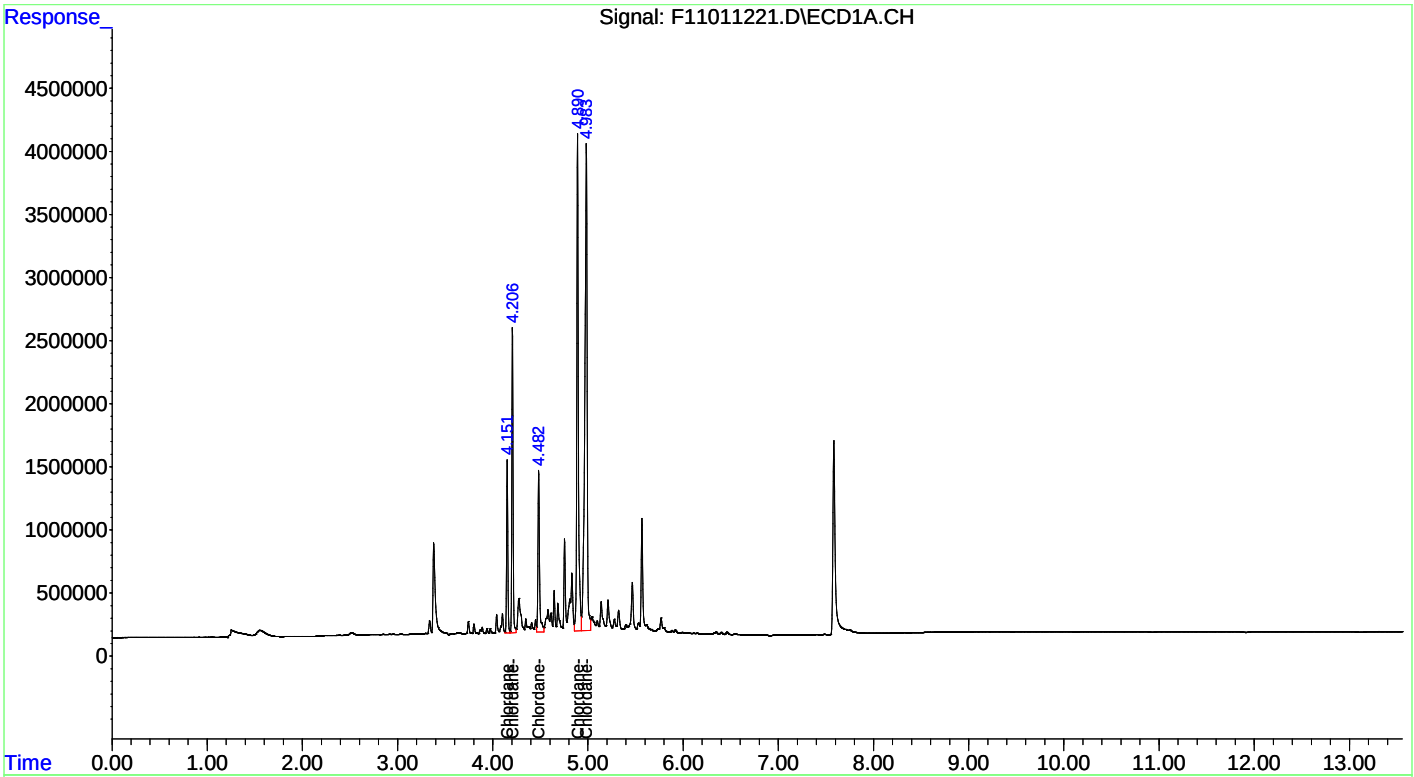
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

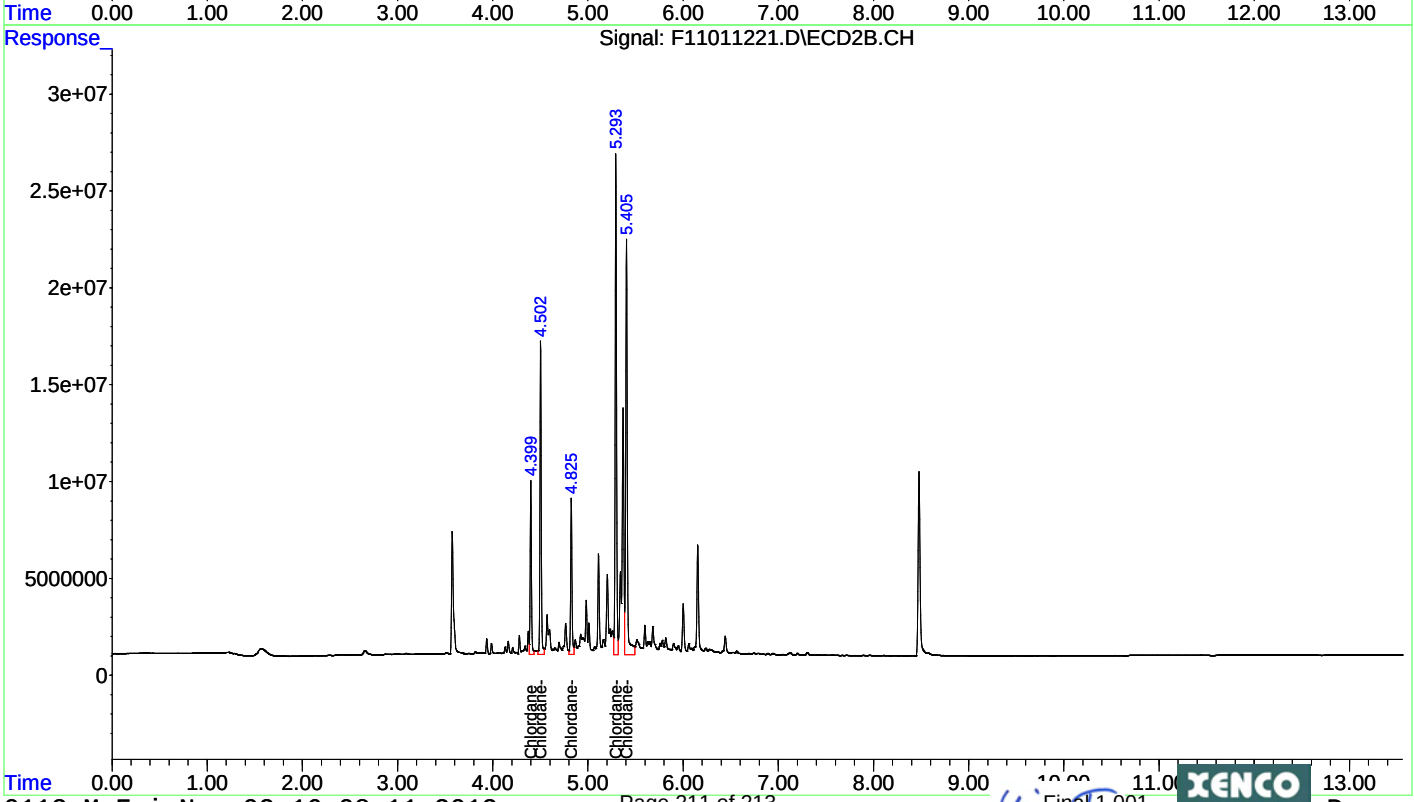
Quantitation Report (Not Reviewed)

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
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





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

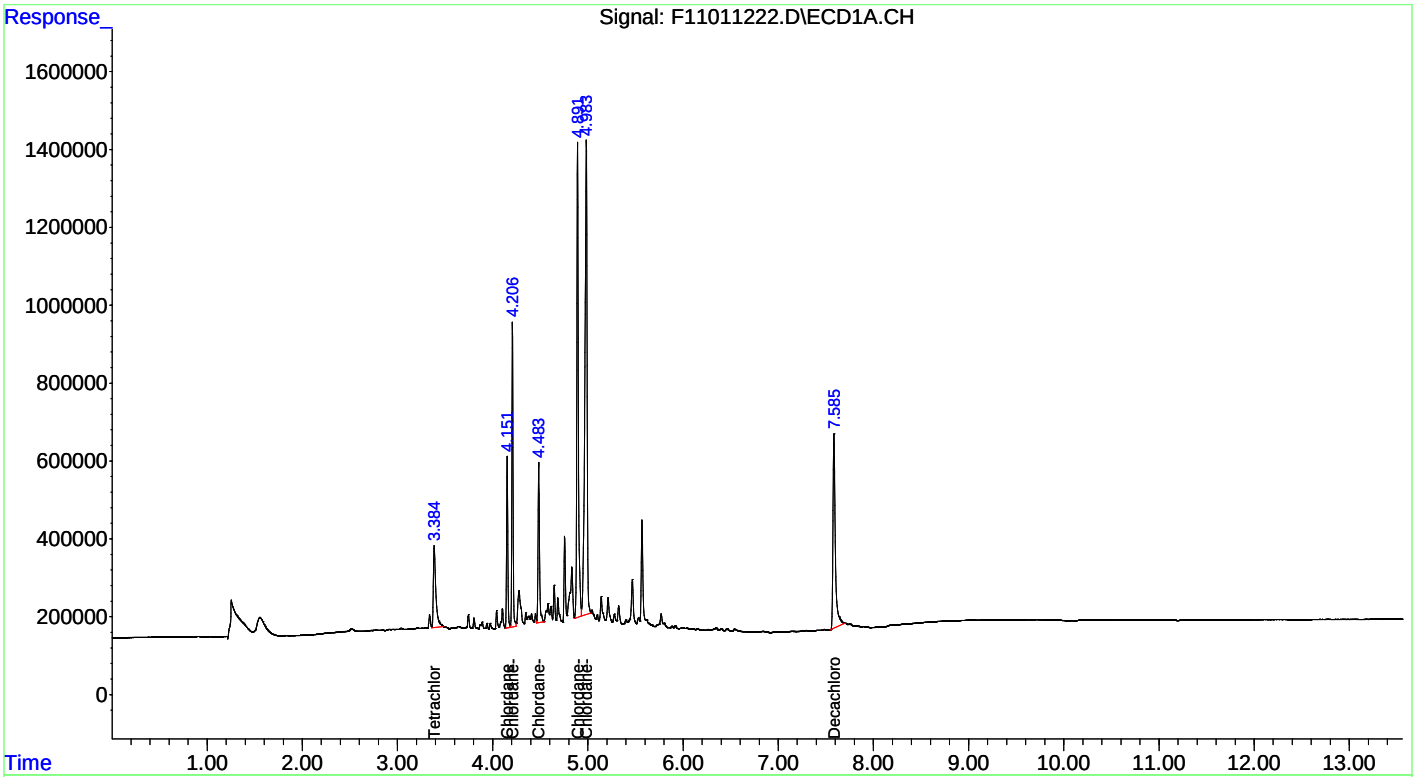
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

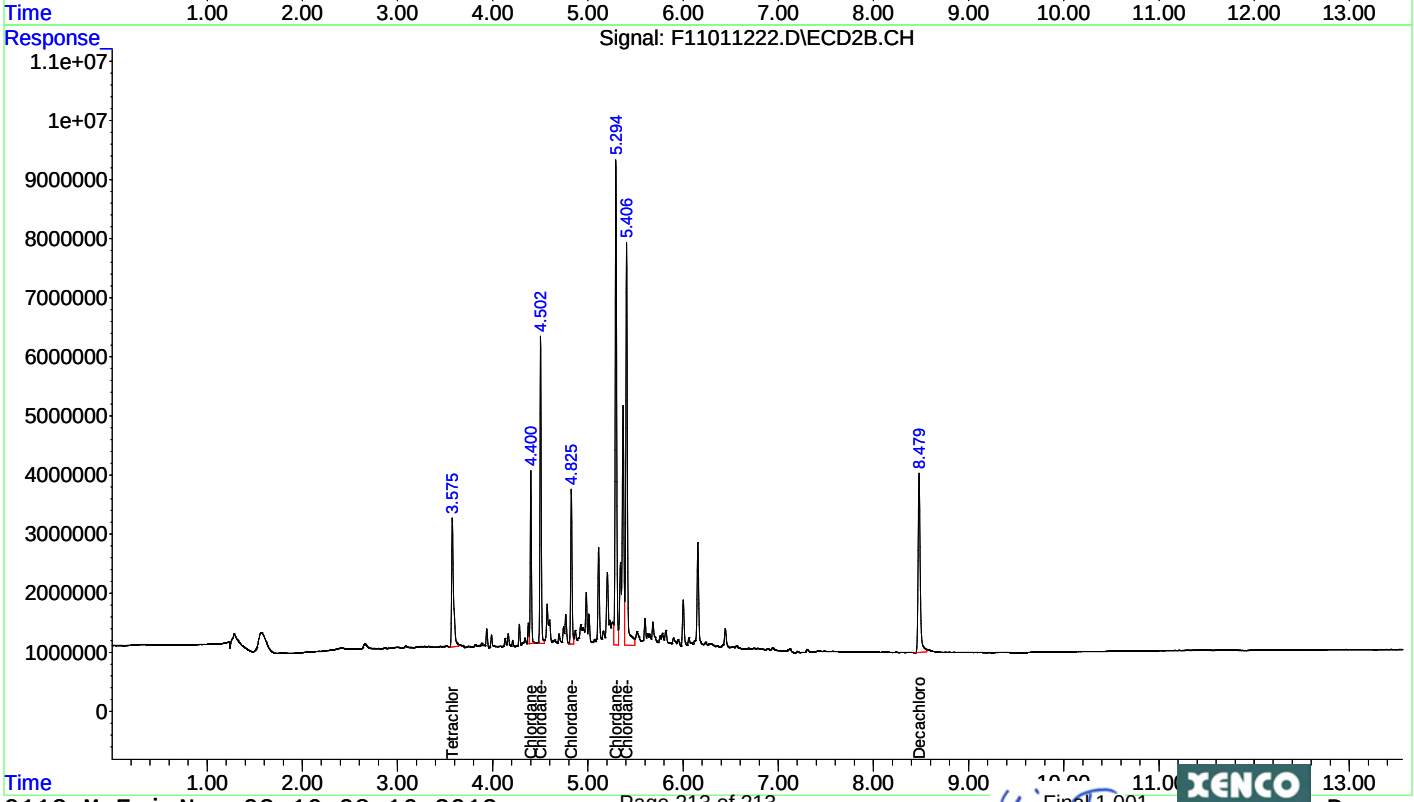
Quantitation Report (Not Reviewed)

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
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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.

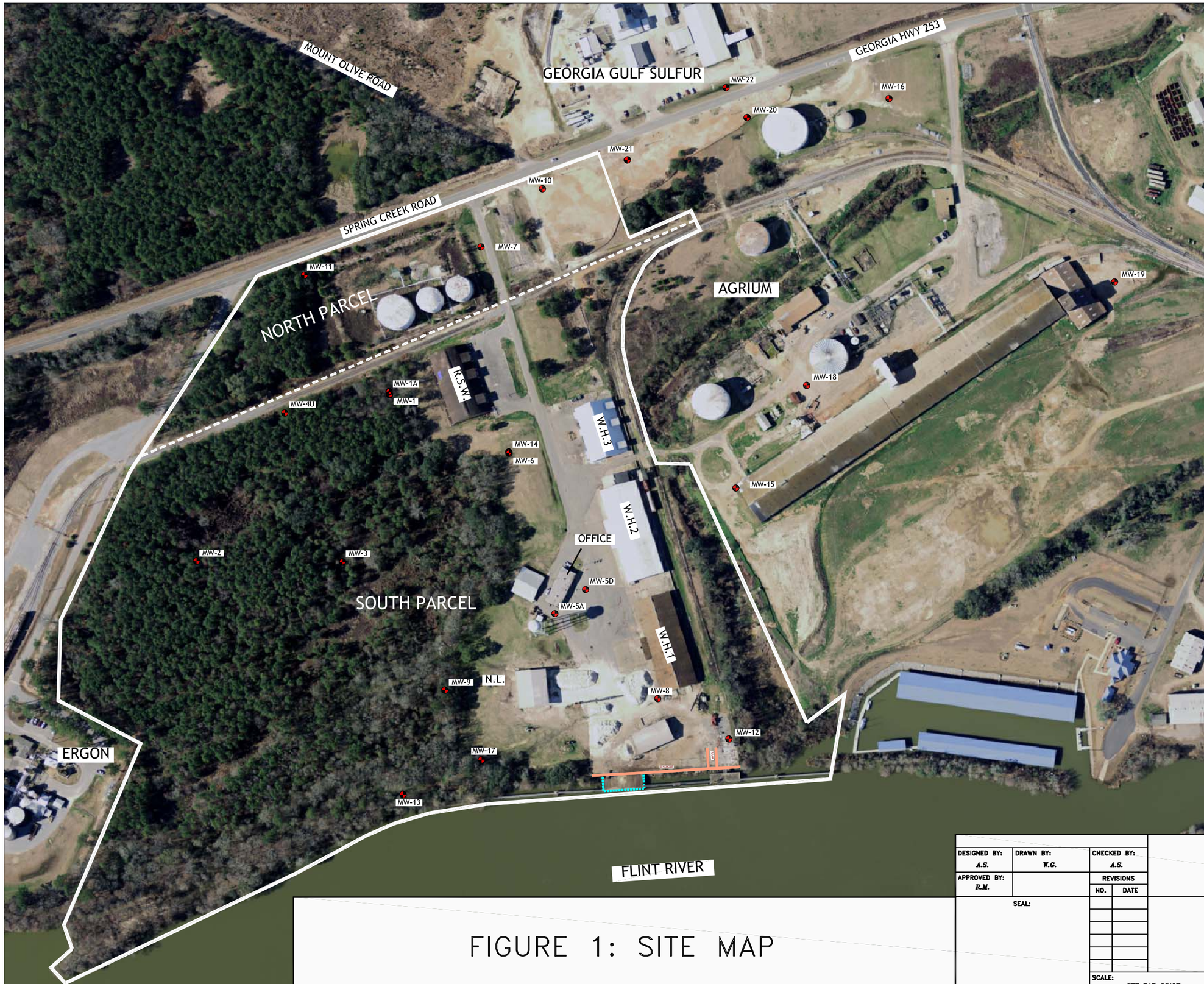
NM = Contaminant Not Measured.

NL = Well not located

NS = Well not sampled

DRY = Well was dry and therefore could not be sampled

FIGURES



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.

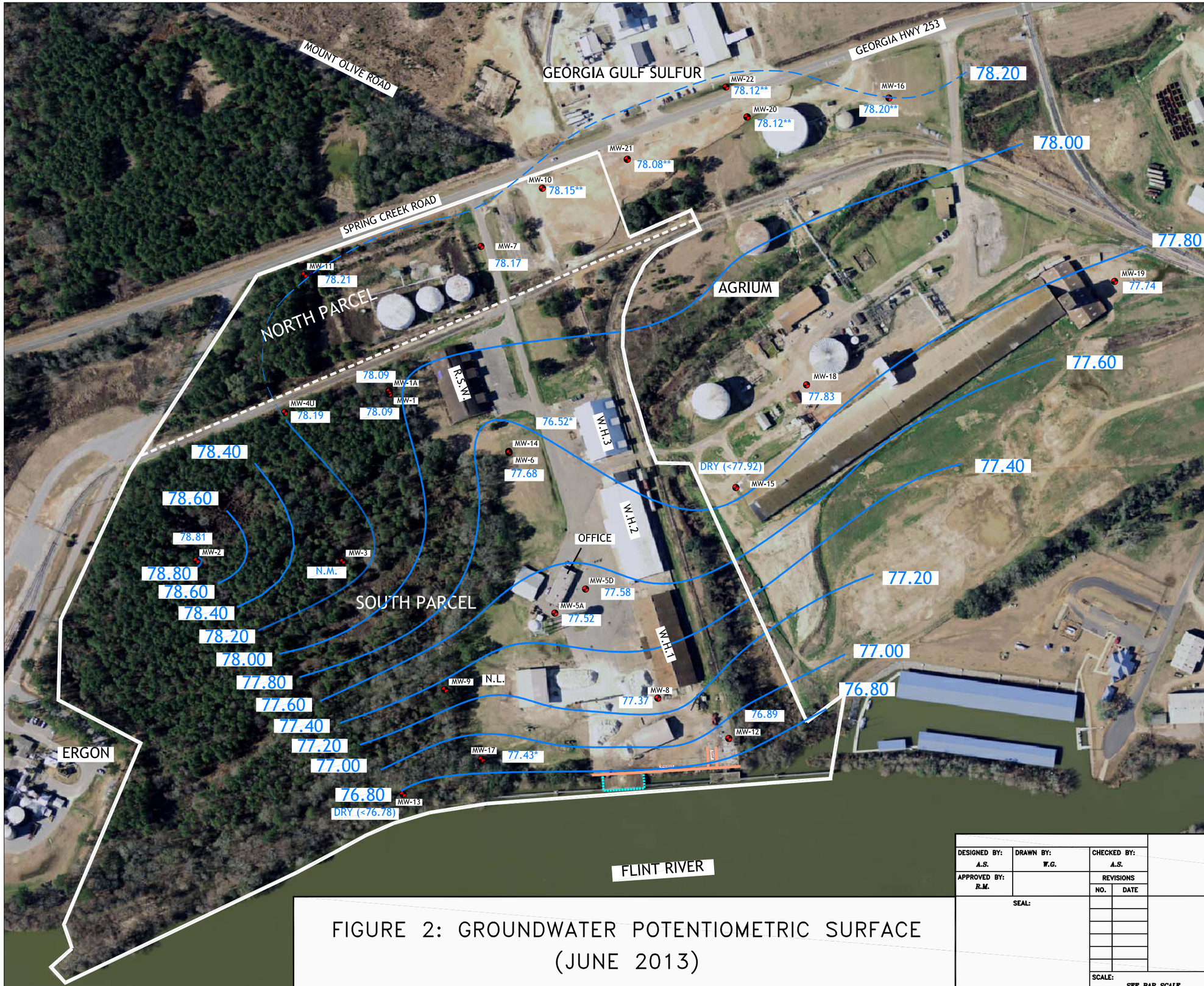
N

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.	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: 10/9/2013	FILE: 400007 – 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
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.

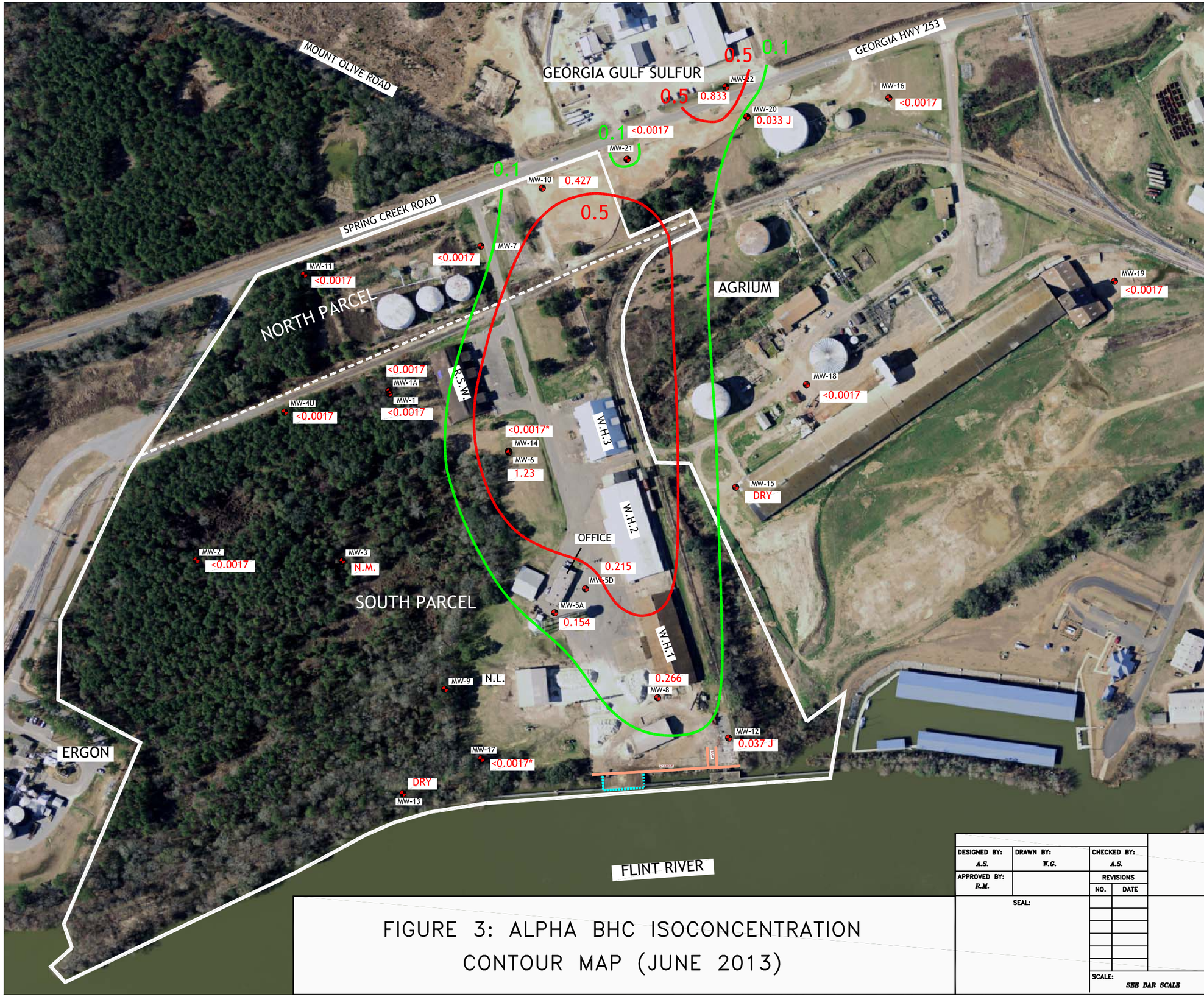
N

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.	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: 9/26/2013	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
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)

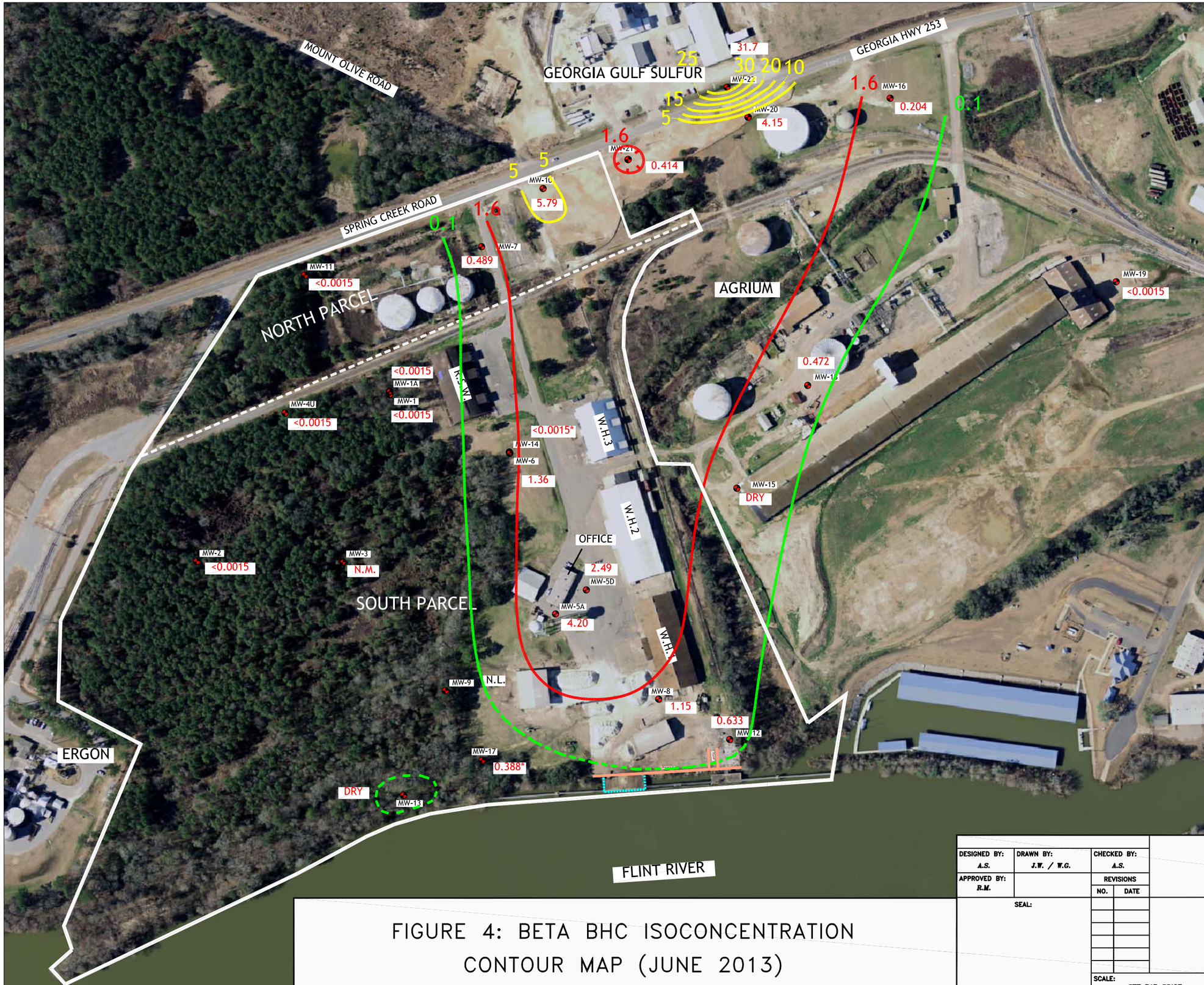
DESIGNED BY:	DRAWN BY:	CHECKED BY:
A.S.	W.G.	A.S.
APPROVED BY: R.M.		REVISIONS NO. / DATE

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	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.

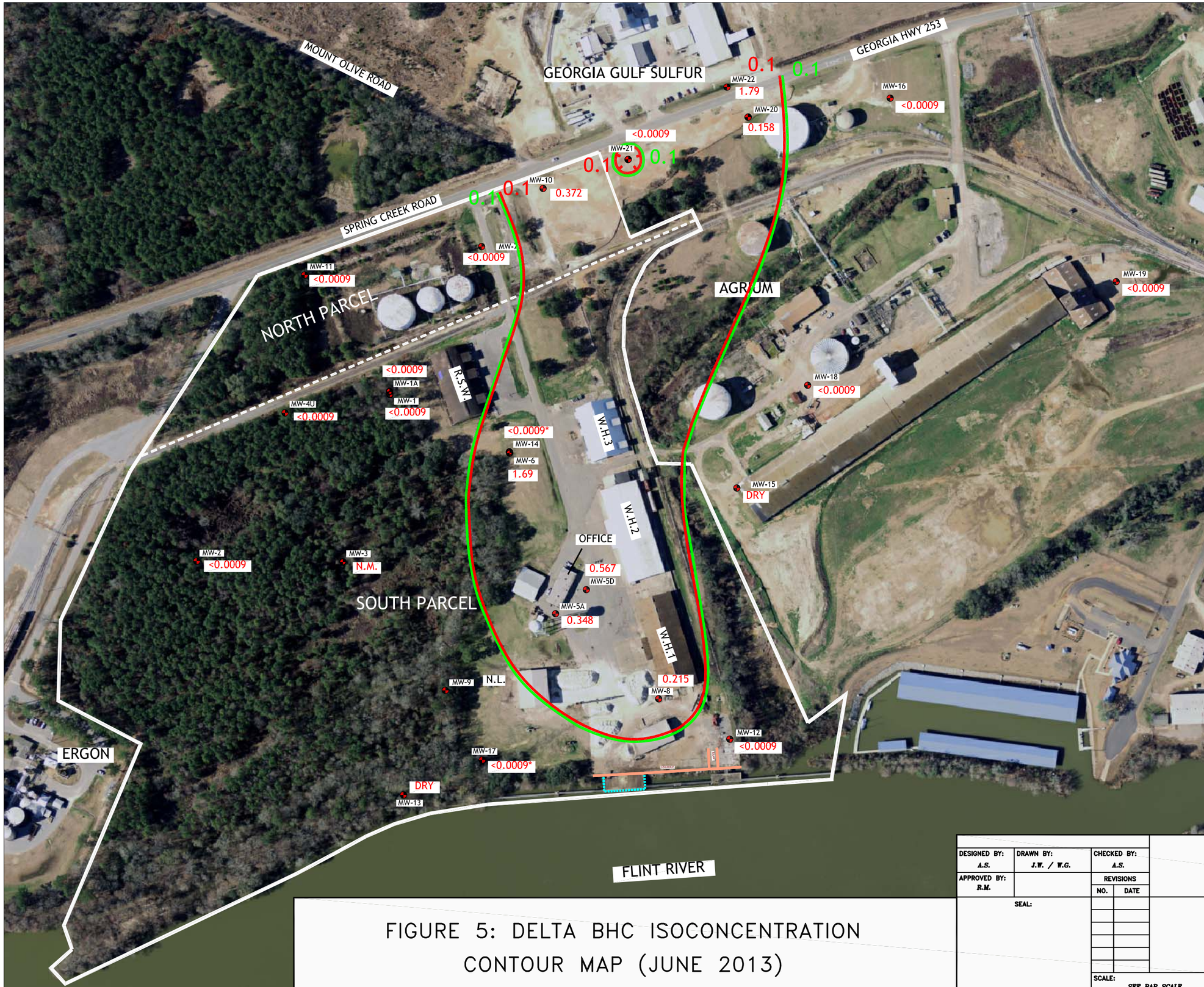
N

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.	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
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.

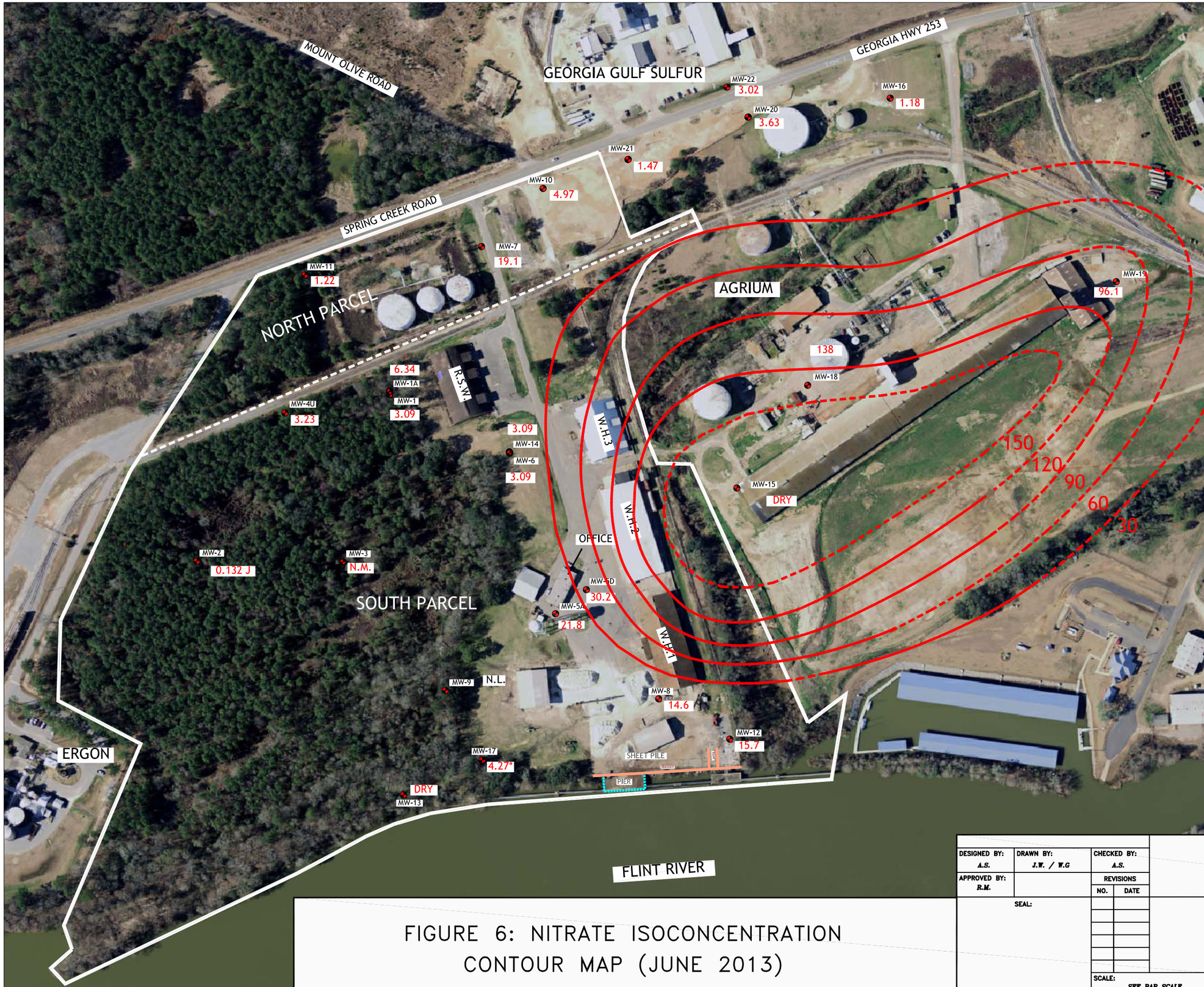
N

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.	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: 9/23/2013	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
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.

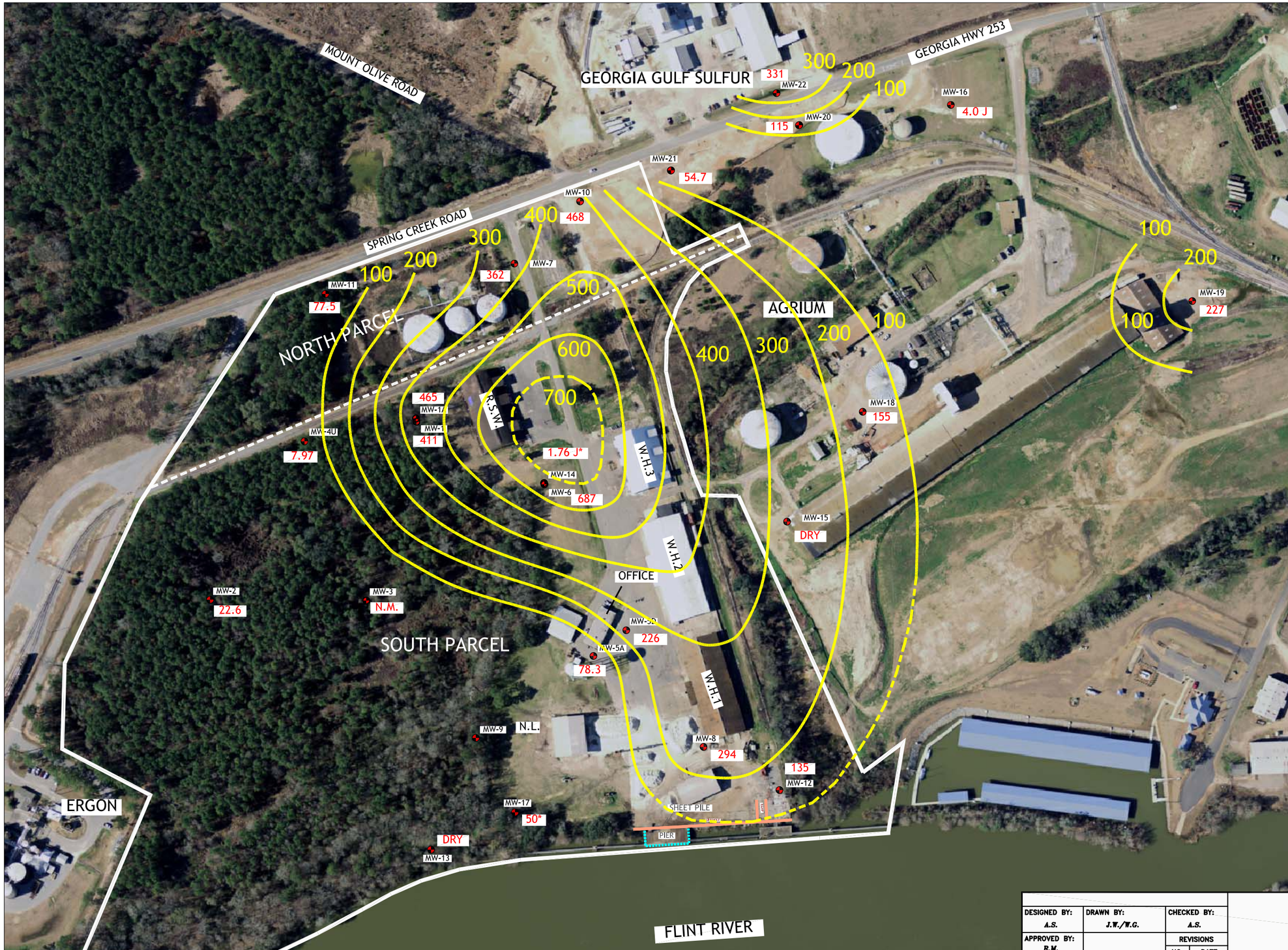
N

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.	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: 9/26/2013 · 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
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.	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: 9/26/2013 · FILE: 400007 – 4.5 – GPA BAINBRIDGE · SHEET NO.:

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 Alex to 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	~~4220~~ 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	14:03	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

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: ~~19.25~~ FT. TO ~~29.25~~ 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 →

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

Gauged from high side towards nearby railroa

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 → Gauge from mark 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

ANALYTICAL PARAMETERS: 8081B / 9060A / 6010C / 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.)
14:28	0	25.27	4.81	253	0.212	2.6	7.55	~~20~~ 21.00	Clear, very slightly cloudy,
14:33	1380	21.72	4.42	318	0.054	1.1	4.85	~~21.10~~ 21.01	no odor.
14:38	2860	21.27	4.42	355	0.052	11.2	7.31	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

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 → Gauge 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	4.37	25.37	
15:24	5260	23.45	3.66	470	0.183	4.2	4.31	25.37	
15:29 ← ~~15:29~~	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 Kondapud

* 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~~ 16:54

Gauged from mark 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 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.)	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: 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.)
16:38 ~~16:37~~	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: 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.)	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	~~7:50~~ → 16:37
Pump speed at flow into cylinder	→ 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.

EIC 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, ~~mest~~ med-high clouds, <1 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/9056A/9060A/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: Shobha 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: 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

Gauged from mark on north side of casing

PID/FID READINGS (ppm): BACKGROUND: NA BENEATH OUTER CAP: NA BENEATH INNER CAP: NA

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

ANALYTICAL PARAMETERS: 8081B/8010C/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.)
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 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.)
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: 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.)	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 sp[illegible] 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
9:56	1300	22.85	3.56	417	0.184	63.4	4.07	22.75	tubing initially.
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 lowered 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

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: 400007

WEATHER CONDITIONS: Overcast, 80% humidity, <1mph 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

WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-14

DATE: 6/5/13 | PROJECT NAME: GPA 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: 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.)
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 pesticides 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 bluish tinge to water.

COMMENTS:

SAMPLE COLLECTION TIME: 15:53

PREPARED BY: Shobhae 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.)	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

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

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: 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 = 20.11. Depth to Water = 20.11
1/200 ft brown colored silt at the bottom
Marked N-side as gauging point

Gauged from mark on casing

Measured at 14:11

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, <1mph 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

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 #: V-52

Gauged from marker 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.)
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 → Gauged from mark on eastern 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: ~~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	

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	58
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:

ENVIRONMENTAL INTERNATIONAL CORPORATION

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, < 5 mph 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

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 (opposite 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.)
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

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 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/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	—

	Time	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	15:03	15:11	15:19				

Note :→ Matrix spike collected at 15:30.

→ Measured & Marked N-side of well.

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.

No bolts on well vault.

Note: 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 kts, Evening, 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 well on case 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	13053
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

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: 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

Measured from mark on casing towards spring creek road.

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.)
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

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 Aleko 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 / 9056 A / RSK-175

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

Measure from marker 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
11:25	1200	22.01	3.46	451	0.619	27.8	2.01	20.86	every foot), no odor.
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	9000	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	Time	Time	Time	Time	Time	Time
2,000 mL volume poured into bucket	11:28 (1980 mL)	11:35	11:43	11:51 (2060 mL)	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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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

Florida Testing Services, LLC

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

QC Summary 464368

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	

QC Summary 464368

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 # 464360

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: 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-2	6/3/2013	15:14		W		✓	1	125 ml	P	NA										✓						1
2	MW-7	6/3/2013	16:36		W		✓	1	125 ml	P	NA										✓						2
3																											3
4																											4
5																											5
6																											6
7																											7
8																											8
9																											9
10																											10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) Alan Sanders	6/3/2013 17:12	2)	6/4/13 13:05
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.

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

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)
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Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046):
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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

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

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

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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Summary of Quality control	13
Chain of Custody	14
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XENCO Laboratories
Florida Testing Services, LLC

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

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 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

QC Summary 464523

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

Lab Only: WO#404523

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

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.

From: Rcv by: Date Addn:

	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	
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
1) A.S. Alan Sanders	6/5/2013 16:55	2) [illegible]	6/6/13 10:03
3)		4)	
5)		6)	

Total Containers per COC: 7 Cooler Temp: 3.5 °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

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**
Lab Sample Id : 464706-011

Matrix : Water
Date Collected : 06.05.13 18.13
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	42.4	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
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	598	mg/L	06.10.13 14.02	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	1.04	mg/L	06.12.13 21.54		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	0.660	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**
Lab Sample Id : 464706-024

Matrix : Water
Date Collected : 06.05.13 18.37
Date Received : 06.07.13 12.19

% Moisture :

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	

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: 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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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

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

GPA Bainbridge, GA

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

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: 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

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: 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	

Certificate of Analytical Results 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

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

Certificate of Analytical Results 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

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	

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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	**

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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	

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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: 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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Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

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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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	**

Certificate of Analytical Results 464706

Environmental International Corporation, Alpharetta, GA

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

Certificate of Analytical Results 464706

Environmental International Corporation, Alpharetta, GA

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: 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	

Certificate of Analytical Results 464706

Environmental International Corporation, Alpharetta, GA

GPA Bainbridge, GA

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	***

Certificate of Analytical Results 464706

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

Certificate of Analytical Results 464706

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

GPA Bainbridge, GA

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	***

Certificate of Analytical Results 464706

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: 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

Certificate of Analytical Results 464706

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	

Certificate of Analytical Results 464706

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

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: 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

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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: 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	

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: 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	

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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	

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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	***

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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

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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	

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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

QC Summary 464706

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

Florida Testing Services, LLC

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	

QC Summary 464706

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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☐ Philadephia/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 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@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 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)	Remarks: Sample Clean-ups are pre-approved as needed	Addn: Date Rcv by: From:
1	MW-1	6/4/2013	14:18		W		✓	4	✓	✓	✓										✓	✓	✓		✓								1
2	MW-1A	6/4/2013	12:06		W		✓	4	✓	✓	✓										✓	✓	✓		✓								2
3	MW-2	6/3/2013	15:14		W		✓	4	✓	✓	✓										✓	✓	✓		✓								3
4	MW-4U	6/4/2013	15:35		W		✓	4	✓	✓	✓										✓	✓	✓		✓								4
5	MW-5A	6/4/2013	18:28		W		✓	4	✓	✓	✓										✓	✓	✓		✓								5
6	MW-5D	6/4/2013	17:31		W		✓	4	✓	✓	✓										✓	✓	✓		✓								6
7	MW-6	6/5/2013	17:04		W		✓	5	✓	✓	✓										✓	✓	✓	✓	✓								7
8	MW-7	6/3/2013	16:36		W		✓	4	✓	✓	✓										✓	✓	✓		✓								8
9	MW-8	6/5/2013	9:42		W		✓	4	✓	✓	✓										✓	✓	✓		✓								9
10	MW-10	6/5/2013	18:05		W		✓	5	✓	✓	✓										✓	✓	✓	✓	✓								10

	Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1	1) A.S. [signature]	6/18/13 12:19	2) [signature]	6/07/13 12:19
2	3)		4)	
3	5)		6)	

Total Containers per COC: Cooler Temp: 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 _____ **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 #: 262793

Company-City: EIC
Phone: 770-772-7100
Lab Only: WO# 464706
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 Hydrocarbons	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-10-DUPLICATE	6/5/2013	18:13		W		✓	5	V	V	V										✓	✓	✓	✓	✓						1
2	MW-11	6/4/2013	10:22		W		✓	4	V	V	V										✓	✓	✓		✓						2
3	MW-12	6/5/2013	8:15		W		✓	4	V	V	V										✓	✓	✓		✓						3
4	MW-14	6/5/2013	15:53		W		✓	4	V	V	V										✓	✓	✓		✓						4
5	MW-16	6/5/2013	12:01		W		✓	4	V	V	V										✓	✓	✓		✓						5
6	MW-17	6/5/2013	10:43		W		✓	4	V	V	V										✓	✓	✓		✓						6
7	MW-18	6/6/2013	16:17		W		✓	5	V	V	V										✓	✓	✓	✓	✓						7
8	MW-19	6/6/2013	15:22		W		✓	5	V	V	V										✓	✓	✓	✓	✓						8
9	MW-19-MATRIXSPIKE	6/6/2013	15:30		W		✓	1	NL	A	NA										✓										9
10	MW-20	6/6/2013	10:25		W		✓	5	V	V	V										✓	✓	✓	✓	✓						10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) Alan Sanders AS	6/7/13 12:19	2) Dylan Pilgar DP	6/7/13 12:19
3)		4)	
5)		6)	

Total Containers per COC: Cooler Temp: 3°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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☐ South Carolina 803-543-8099 ☐ Other

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 262854

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

Lab Only: WO # 469706

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					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:	
1	MW-21	6/6/2013	8:53		W		✓	5	V	V	V										✓	✓	✓	✓	✓												1
2	MW-22	6/6/2013	12:06		W		✓	5	V	V	V										✓	✓	✓	✓	✓												2
3	MW-22-MATRIX SPIKE	6/6/2013	12:13		W		✓	1	NA	NA	NA										✓																3
4	EQUIPMENT BLANK	6/5/2013	18:37		W		✓	5	V	V	V										✓	✓	✓	✓	✓												4
5																																					5
6																																					6
7																																					7
8																																					8
9																																					9
10																																					10

Remarks From: Rcv by: Date Addn:

	Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1	1) A.S. Alan Sanders	6/7/13 12:19	2) Diane Mizel DM	6/7/13 12:19
2	3)		4)	
3	5)		6)	

Total Containers per COC: Cooler Temp: 3.0C

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

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.

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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.

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Ms. Natalie Dawn
Georgia Ports Authority

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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

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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
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	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
	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	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	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
	8/4/2009	2.36	1.7	6.7	0.505 U	0.505 U	0.505	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	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	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	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	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
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
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	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	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	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

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
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	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	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	0.100 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	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
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	0.0049 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

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:

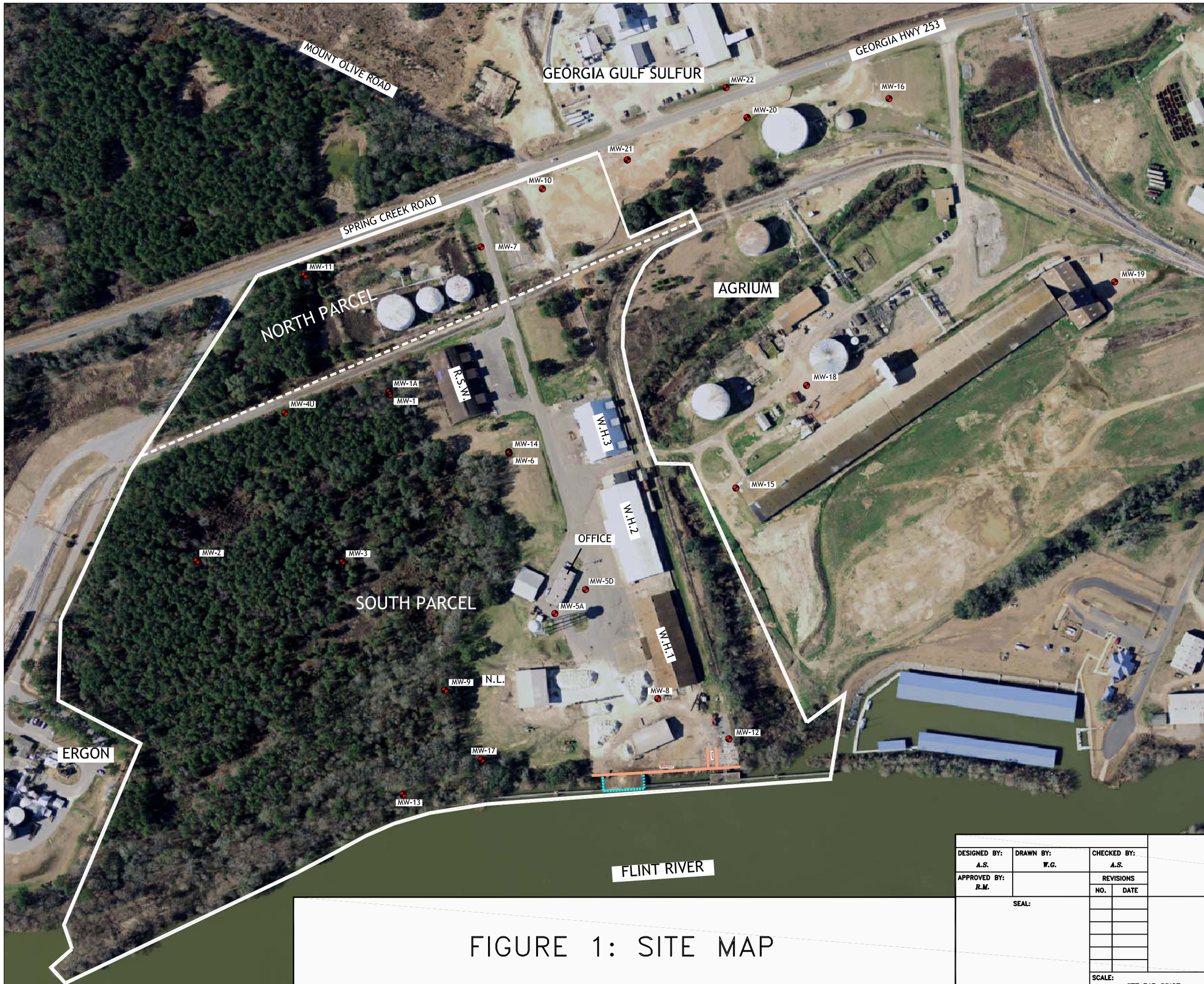
Samples delivered to laboratory within holding time.

* 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



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.

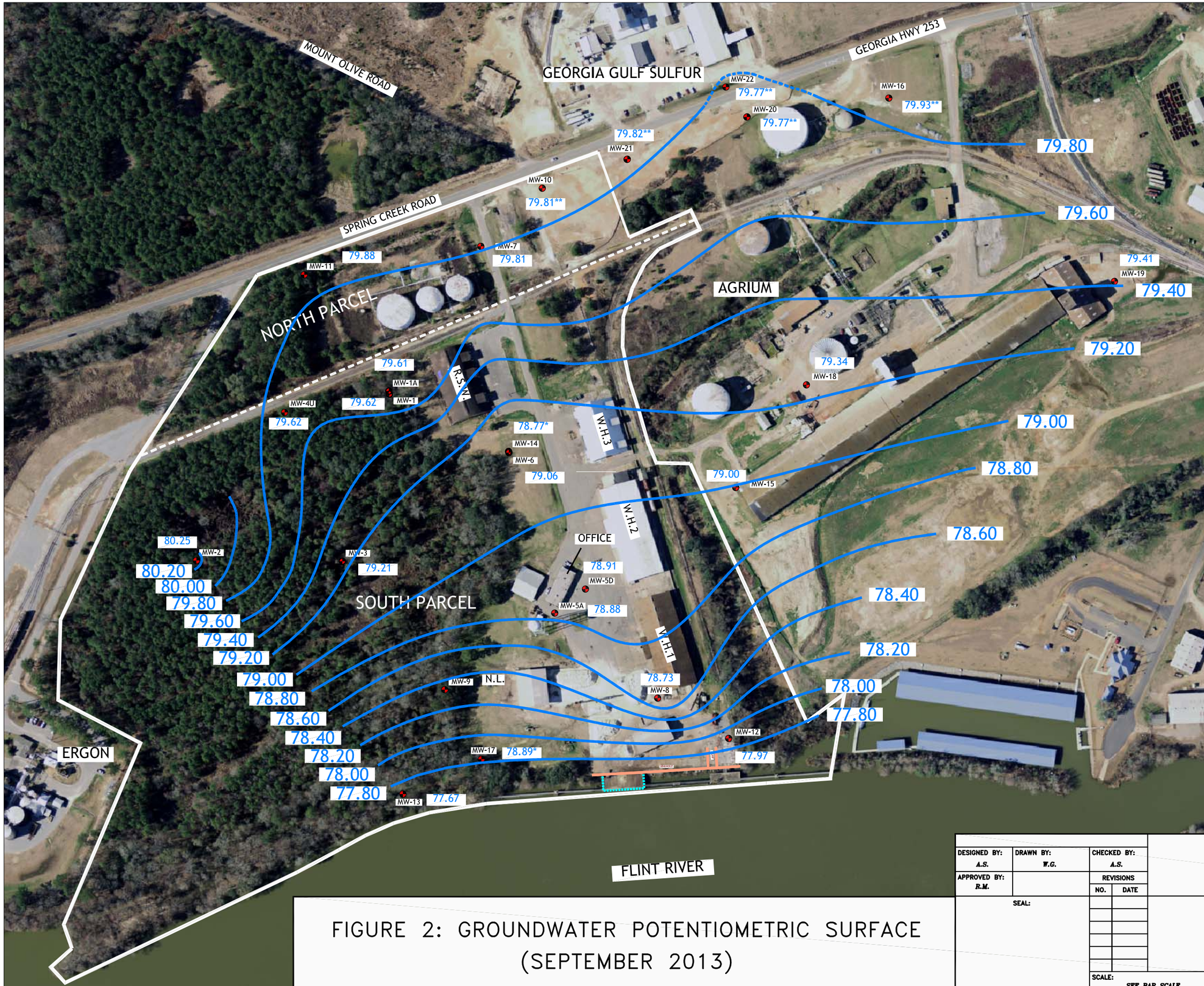
N

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.	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: 10/9/2013	FILE: 400007 – 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
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.

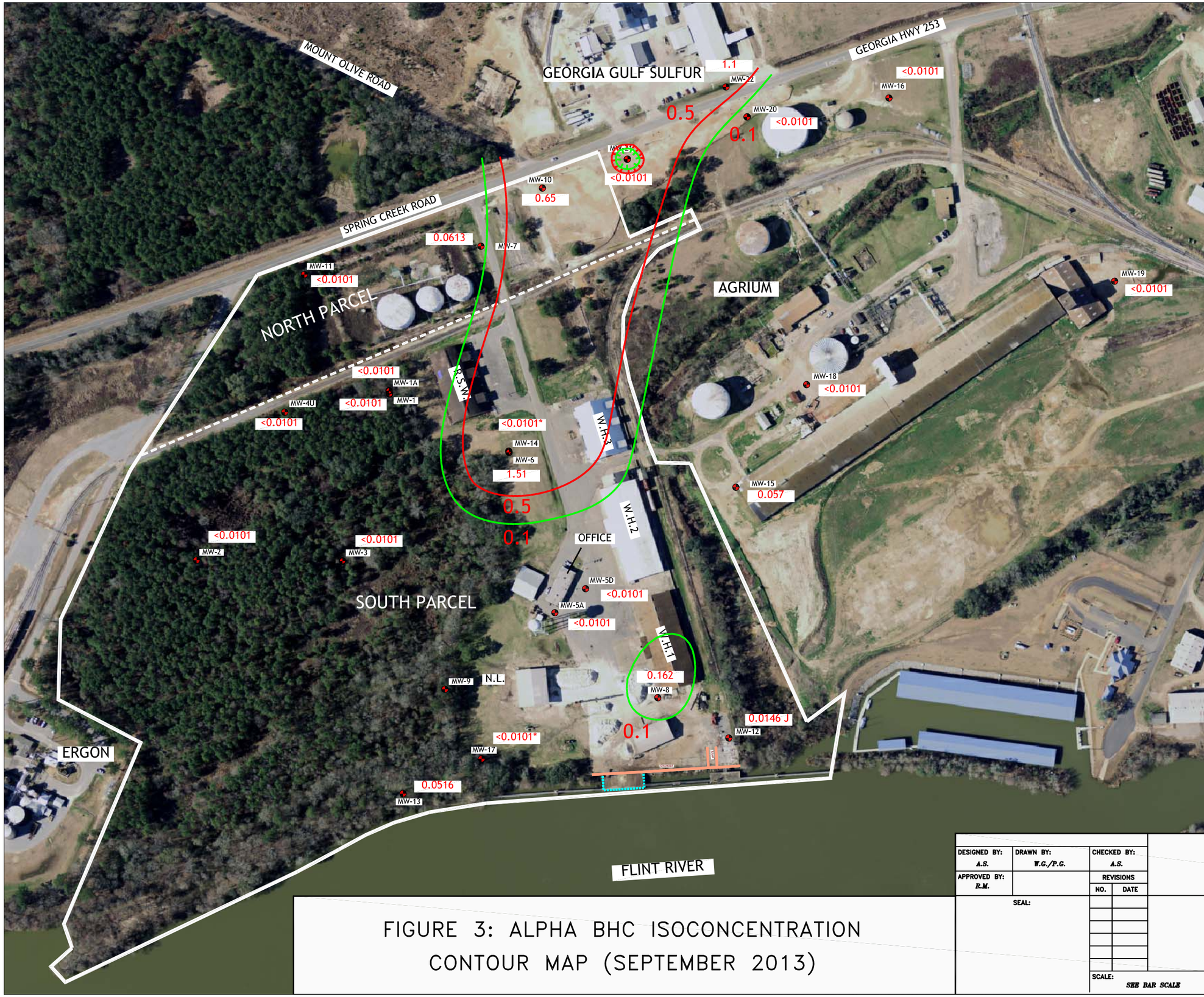
N

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.	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: 9/23/2013	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
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)

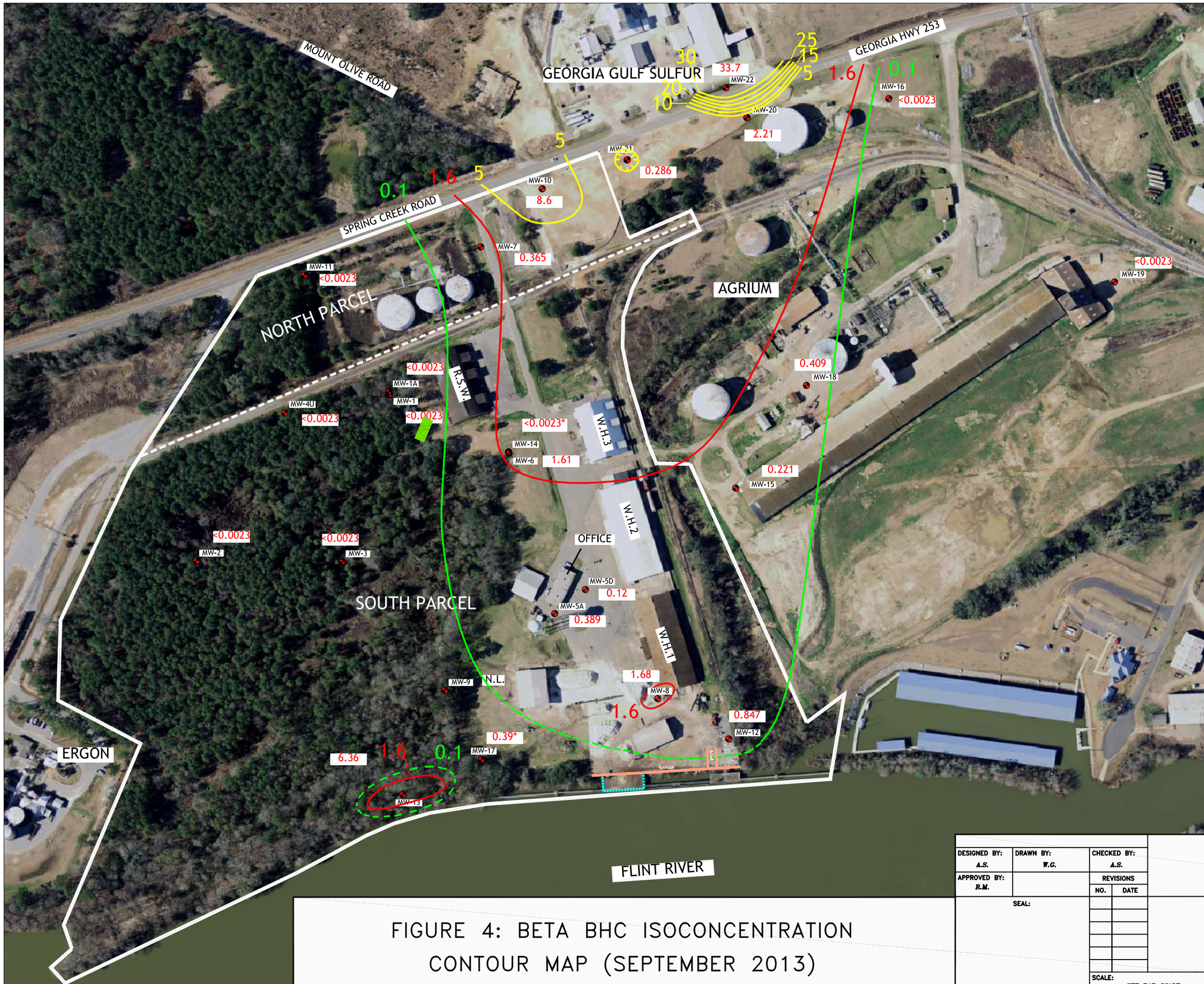
DESIGNED BY:	DRAWN BY:	CHECKED BY:
A.S.	W.G./P.G.	A.S.
APPROVED BY: R.M.		REVISIONS NO. / DATE

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	10/9/2013	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
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.

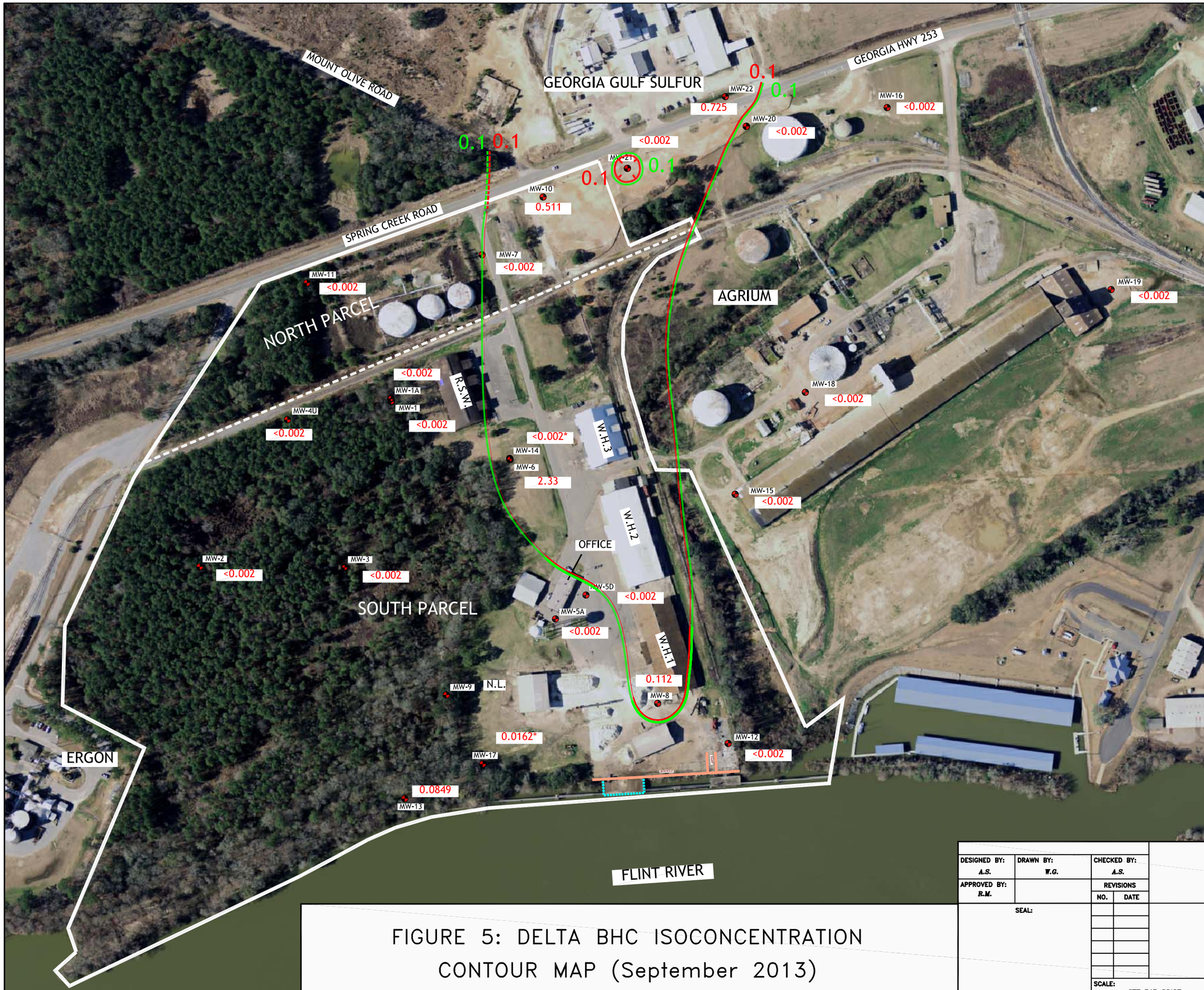
N

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.	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
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.

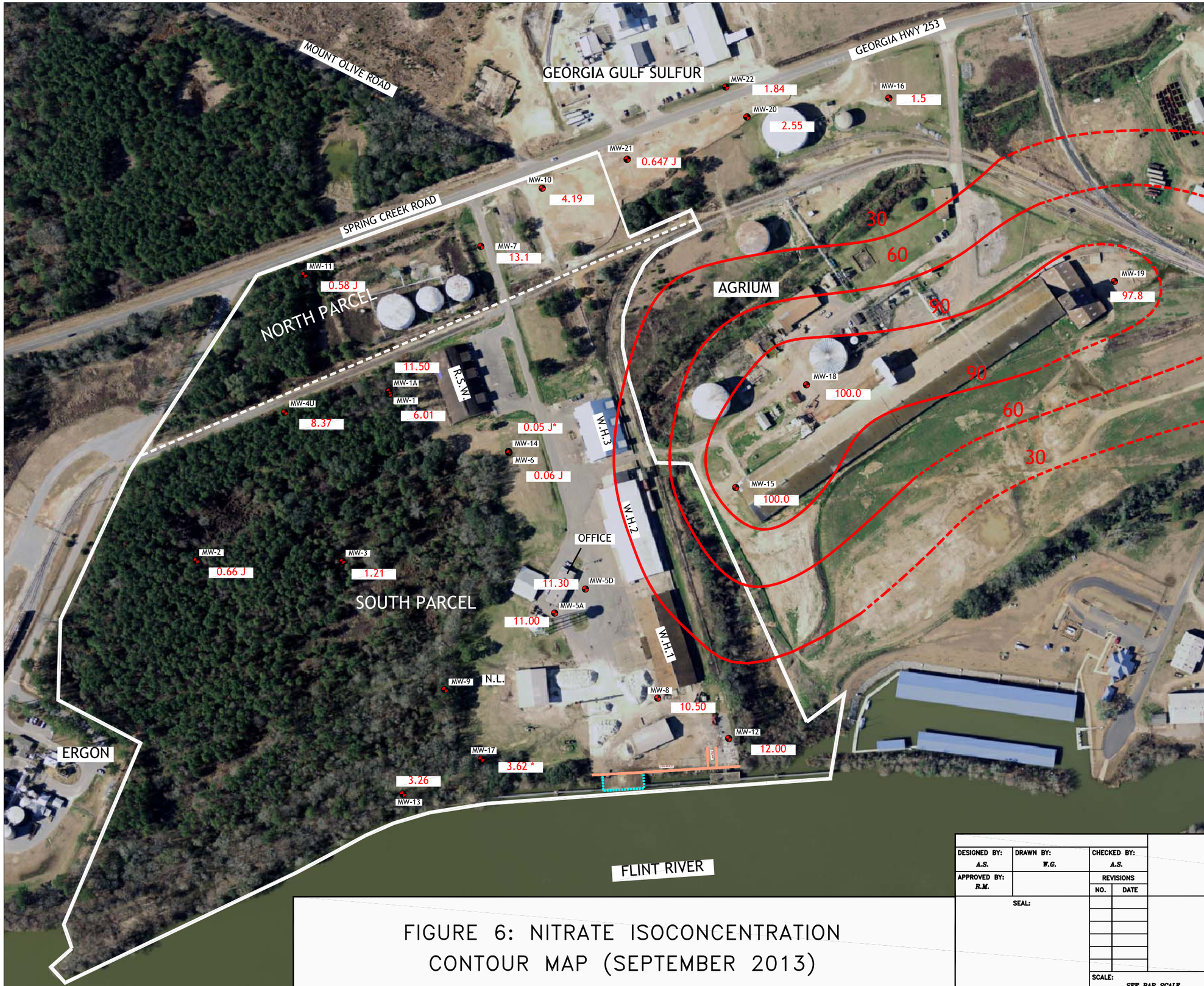
N

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.	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: 9/23/2013	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
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)

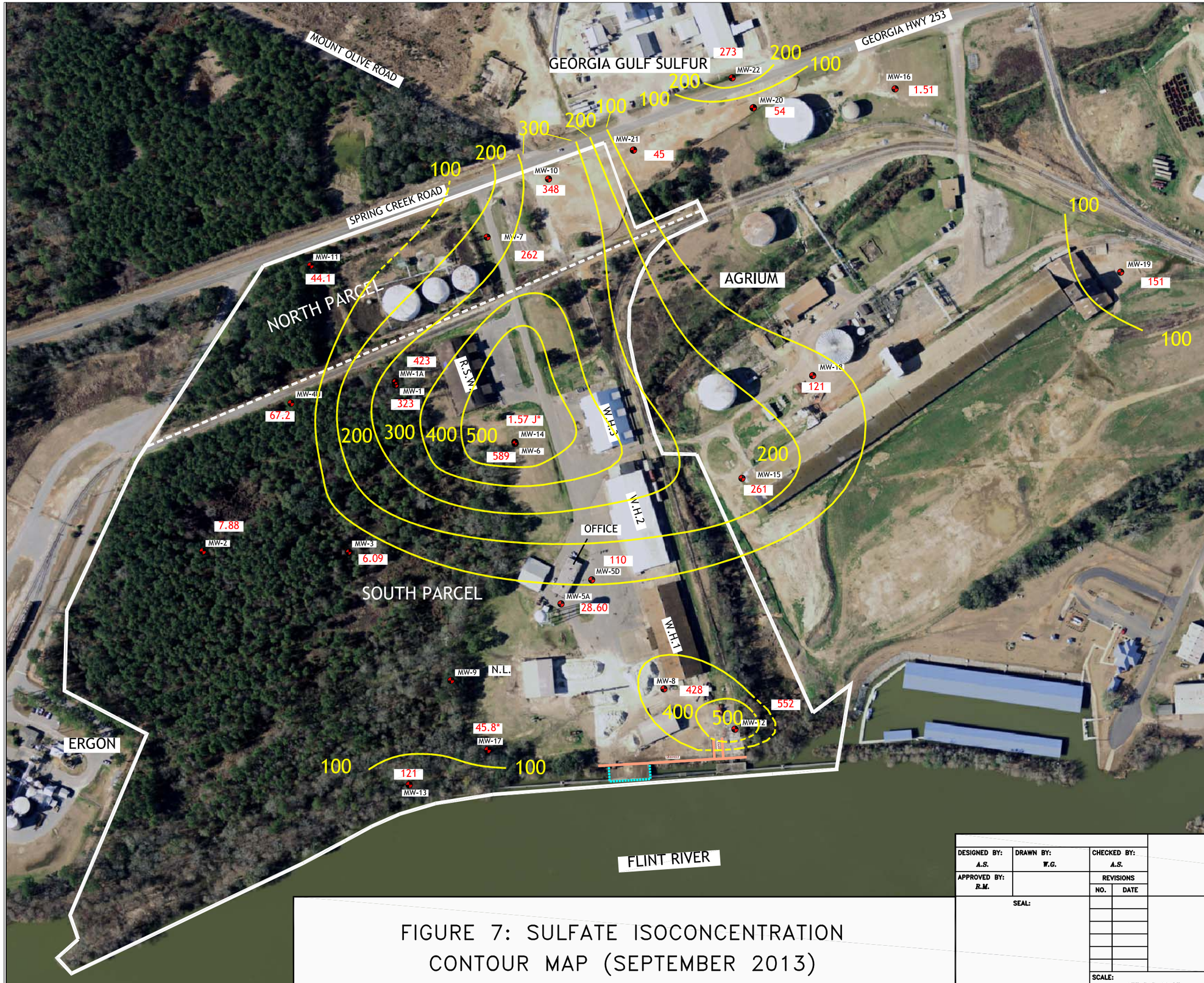
DESIGNED BY:	DRAWN BY:	CHECKED BY:
A.S.	W.G.	A.S.
APPROVED BY: R.M.		REVISIONS NO. / DATE

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	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.	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: 10/24/2013	FILE: 400007 – 4.5 – GPA BAINBRIDGE	SHEET NO.:

ATTACHMENT A

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

WELL/SAMPLE NO: MW-1

DATE: 9/3/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Sunny, ~90°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: 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 #: U1RU5DA9

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
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 #: UDRU5D19

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 pull 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 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.)	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	~~5~~ 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
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
11:23 ~~11:22~~	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.

Well ~~was de~~ fi development was completed at 10:22 on 9/4/2013

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)	

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 #: 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.)
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. ±.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 tube 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
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: ~~Sattre~~ 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 ~.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 #: 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.)
18:21	~~18:20~~	0	28.16	6.24	134	6.53	40.4	4.36	17.07	First half inch
	18:26	1300	~~20.60~~ 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	0.652	0.0	0.72	17.06	Black particulates
7500 mL	18:51	~~9500~~	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: 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.)	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	22.49	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	80	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	1.72	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 #: 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.)
9:03	0	23.95	5.7	247	0.373	204	2.66	18.36	some bubbles
9:08	920	23.71	5.64	204	0.408	106	1.34	18.37	
9:13	1720	23.65	5.24	255	0.429	56.5	1.04	18.37	Cloudy yellow/gray in
9:18	2360	23.65	4.89	275	0.443	38.5	0.95	18.38	cylinder
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	

9:09
9:14

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

WELL/SAMPLE NO: MW-8

DATE: 9/4/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Partly cloudy ~98°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 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 #: 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.)
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	2.2	14.67	

COMMENTS:

SAMPLE COLLECTION TIME: 17:09

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.)	~~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
WELL PURGING AND SAMPLING DATA LOG

PAGE 1 OF 1

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 (app°

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.)
				330				21.08	
7:52	0	21.47	3.88	~~157~~	0.226	9.9	5.23	~~21.12~~	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 ~85°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	2.0	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	16:35
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	16:54							
Cummulative Volume (mL)	2300	4300							

Additional remarks: bottle became very hot when water entered
40 mL sulphuric acid

ENVIRONMENTAL INTERNATIONAL CORPORATION
WELL PURGING AND SAMPLING DATA LOG

PAGE 1 OF 1

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 ~~0.25~~ ~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	
9:55 9:54	1480	21.91	4.72	226	0.512	0.0	0.88	15.73	
10:00	2340	21.68	4.82	194	0.499	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	

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	9:46	9:51
		300mL	~~420~~ 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

WELL/SAMPLE NO: MW-14

DATE: 4/3/13 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: High humidity, ~93°F, Thunder ~~to 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	4350							

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 #: 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.)
14:29	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	0.9	19.45	cloudy & black
14:54	2340	25.37	6.51	-88	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	14.67	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	0.489	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	12.3	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. ±.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.)
15:52	0	29.39	6.64	42	1.63	5.5	4.62	16.15	Initial water in tube
15:57	1180	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

WELL/SAMPLE NO: MW-19

9/4/2013 DATE: ~~4/3/2013~~ | PROJECT NAME: GPA Bainbridge | 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 Grayson~~ 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	7.11
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 #: VDRU5D49

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 ~~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	16.34	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
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. Philipp

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	6.82	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	
~~16~~ 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 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.)	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

PAGE 1 OF 1

WELL/SAMPLE NO: Equipment Blank

DATE: 9/4/2013 | PROJECT NAME: GPA Bainbridge | PROJECT NO: 400007 - 4.5

WEATHER CONDITIONS: Scattered clouds, ~85°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 #: 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.)

COMMENTS:

SAMPLE COLLECTION TIME: 19:19

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.)	9.35
Initial tubing depth (ft.) BTOC	
Final tubing depth (ft.) BTOC	
Initial pump speed	7.08
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)

XENCO Laboratories
Florida Testing Services, LLC

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

CASE NARRATIVE

Client Name: Environmental International Corporation
Project Name: GPA Bainbridge

Project ID: *400007*
Work Order Number(s): *469694*

Report Date: *09-SEP-13*
Date Received: *09/04/2013*

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

QC Summary 469694

XENCO Laboratories
Florida Testing Services, LLC

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

XENCO Laboratories
Florida Testing Services, LLC

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
Lab Only: WO# 469694

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: 770-772-0055

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

Remarks: From: Rcv by: Date: Addn:

	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	4056 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										✓					1
2	MW-1A	9/3/13	11:30		W		X	1	O	P	C										✓					2
3	MW-4U	9/3/13	9:35		W		X	1	O	P	C										✓					3
4	MW-11	9/3/13	8:08		W		X	1	O	P	C										✓					4
5	MW-14	9/3/13	14:23		W		X	1	O	P	C										✓					5
6	MW-6	9/3/13	15:25		W		X	1	O	P	C										✓					6
7	MW-6 Duplicate	9/3/13	15:34		W		X	1	O	P	C										✓					7
8																										8
9																										9
10																									4.2°C	10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) Alan Sanders	9/3/2013 16:40	2) [signature]	9-4-13 11:00
2) 3)		4)	
3) 5)		6)	

Total Containers per COC: 7 Cooler Temp: 4.2°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 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.

Final 1.000

UPS Next Day Air Saver

Shipping Document

WEIGHT	LTR	WEIGHT 9	DIMENSIONAL WEIGHT	LARGE PACKAGE	SHIPPER RELEASE
	☐			☐	☐

1P

Saver

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.

SHIPMENT FROM

UPS ACCOUNT NO. F3V790

REFERENCE NUMBER 400007-415

Alan Sanders TELEPHONE 678-230-183

Environmental Int'l Corp.

161 Kimball Bridge Rd.

Alpharetta, GA 30009 GFN5

CUSTODY SEAL

DATE 9/13/2013

SIGNATURE [illegible]

UPS Next Day Air Saver 1P

EXTREMELY URGENT

DELIVERY TO

David Fallon TELEPHONE 770-449-8801

Xerco

6017 Financial Dr.

Norcross GA 30071

Residential ☐

A381 010 969 9

TRACKING NUMBER

020195254 1/10 S

United Parcel Service, Louisville, KY

Final 1.000

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

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)

XENCO Laboratories
Florida Testing Services, LLC

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

CASE NARRATIVE

Client Name: Environmental International Corporation
Project Name: GPA Bainbridge

Project ID: *400007*
Work Order Number(s): *469746*

Report Date: *09-SEP-13*
Date Received: *09/05/2013*

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

QC Summary 469746

XENCO Laboratories
Florida Testing Services, LLC

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

XENCO Laboratories
Florida Testing Services, LLC

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
☐ Philadephia/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
Lab Only: WO# 469746
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: Alan Sanders

Remarks: From: Rcv by: Date: Addn:

	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-12	9/3/2013	17:01		W		X	1	O	P	C										✓																1
2	MW-16	9/3/2013	18:20		W		X	1	O	P	C										✓																2
3	MW-21	9/3/2013	19:17		W		X	1	O	P	C										✓																3
4	MW-19	9/4/2013	7:56		W		X	1	O	P	C										✓																4
5	MW-7	9/4/2013	9:45		W		X	1	O	P	C										✓																5
6	MW-17	9/4/2013	11:14		W		X	1	O	P	C										✓																6
7	MW-2	9/4/2013	12:33		W		X	1	O	P	C										✓																7
8	MW-15	9/4/2013	15:05		W		X	1	O	P	C										✓																8
9	MW-18	9/4/2013	16:08		W		X	1	O	P	C										✓																9
10																																					10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) Alan Sanders	9/4/13 16:56	2) [illegible]	9-5-13 9:40
3)		4)	
5)		6)	

Total Containers per COC: 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
			☐	☐

☐ 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

SHIPMENT FROM
UPS ACCOUNT NO. F3W790
REFERENCE NUMBER
400007-4.5
Alan Sanders TELEPHONE 675-230-182
Environmental Int'l Corp.
161 Kimball Bridge Rd.
Alpharetta, GA 30009
Fuller TELEPHONE 770-449-5

UPS Next Day Air®

J222 787 948 1

J222 787 948 1
TRACKING NUMBER

DATE OF SHIPMENT 9/4/2013

Residential ☐

DELIVER

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

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

XENCO Laboratories
Florida Testing Services, LLC

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

Version: 1.%

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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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: 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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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

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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Environmental International Corporation, Alpharetta, GA

Bainbridge, GA Site

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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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: 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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Environmental International Corporation, Alpharetta, GA

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

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: 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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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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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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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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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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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: 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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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: 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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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: 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

Certificate of Analytical Results 469854

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	

Certificate of Analytical Results 469854

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

Certificate of Analytical Results 469854

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: 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 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	

Certificate of Analytical Results 469854

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

Certificate of Analytical Results 469854

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: 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	

QC Summary 469854

XENCO Laboratories
Florida Testing Services, LLC

Environmental International Corporation
Bainbridge, GA Site

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	

QC Summary 469854

XENCO Laboratories
Florida Testing Services, LLC

Environmental International Corporation

Bainbridge, GA Site

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	

QC Summary 469854

XENCO Laboratories
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Bainbridge, GA Site

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	

QC Summary 469854

XENCO Laboratories
Florida Testing Services, LLC

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

XENCO Laboratories
Florida Testing Services, LLC

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

XENCO Laboratories
Florida Testing Services, LLC

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

XENCO Laboratories
Florida Testing Services, LLC

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

XENCO Laboratories

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☐ 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 #: 263930 Page 1 of 3

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

Lab Only: WO#469854

Proj Name-Location ☐ Previously done at XENCO: GPA - Bainbridge **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	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 B Organochlorine Pesticides	6010 C Manganese	9060 A TOC	9056 A Chloride, Nitrate, Sulfate	RSK-175 Hydrogas				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	✓	✓	✓										✓	✓	✓		✓												1
2	MW-1A	9/3/2013	11:30		W		✓	6	✓	✓	✓										✓	✓	✓		✓												2
3	MW-2	9/4/2013	12:33		W		✓	6	✓	✓	✓										✓	✓	✓		✓												3
4	MW-3 9/5/13	~~9/4/2013~~	11:33		W		✓	7	✓	✓	✓										✓	✓	✓	✓	✓												4
5	MW-4	9/3/2013	9:35		W		✓	6	✓	✓	✓										✓	✓	✓		✓												5
6	MW-5A	9/5/2013	8:43		W		✓	7	✓	✓	✓										✓	✓	✓	✓	✓												6
7	MW-5D	9/4/2013	18:58		W		✓	7	✓	✓	✓										✓	✓	✓	✓	✓												7
8	MW-6	9/3/2013	15:25		W		✓	6	✓	✓	✓										✓	✓	✓		✓												8
9	MW-7	9/4/2013	9:45		W		✓	6	✓	✓	✓										✓	✓	✓		✓												9
10	MW-8	9/4/2013	17:09		W		✓	7	✓	✓	✓										✓	✓	✓	✓	✓												10

	Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1	1) Alan Sanders	9/6/13 8:40	2) Alan Sanders	9/6/13 08:40
2	3)		4)	
3	5)		6)	

Total Containers per COC: Cooler Temp: 3.4°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.

Final 1.000

XENCO Laboratories

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☐ 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 #: 263929 Page 2 of 3

Company-City: EIC
Phone: 770-772-7100
Lab Only: WO# 469854
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

Remarks: Sample Clean-ups are pre-approved as needed
From: Rcv by: Date Addn:

	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	8081 B/3620 B 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)	Addn:
1	MW-10	9/5/2013	7:44		W		✓	7	✓	✓	✓										✓	✓	✓	✓	✓				1
2	MW-11	9/3/2013	8:08		W		✓	6	✓	✓	✓										✓	✓	✓		✓				2
3	MW-12	9/3/2013	17:01		W		✓	6	✓	✓	✓										✓	✓	✓		✓				3
4	MW-13	9/5/2013	10:12		W		✓	7	✓	✓	✓										✓	✓	✓	✓	✓				4
5	MW-14	9/3/2013	14:23		W		✓	6	✓	✓	✓										✓	✓	✓		✓				5
6	MW-15	9/4/2013	15:05		W		✓	6	✓	✓	✓										✓	✓	✓		✓				6
7	MW-16	9/3/2013	13:20		W		✓	6	✓	✓	✓										✓	✓	✓		✓				7
8	MW-17	9/4/2013	11:14		W		✓	6	✓	✓	✓										✓	✓	✓		✓				8
9	MW-18	9/4/2013	16:08		W		✓	6	✓	✓	✓										✓	✓	✓		✓				9
10	MW-19	9/4/2013	7:56		W		✓	6	✓	✓	✓										✓	✓	✓		✓				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: 3.4 °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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Final 1.000

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☐ South Carolina 803-543-8099 ☐ Other

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 263928

Company-City: EIC
Phone: 770-772-7100
Lab Only: WO#4698554
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

From: Rcv by: Date Addn:

	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/8260B Organochlorine Pesticides	6010C Manganese	9060A TOC	9056A Chloride, Nitrate + Sulfate	RSK-175 Hydro gas					TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Remarks: Sample Clean-ups are pre-approved as needed			
1	MW-19 Matrix Spike	9/4/2013	8:02		W		✓	1	1	A	C										✓															1
2	MW-20	9/5/2013	14:22		W		✓	7	V	V	V										✓	✓	✓	✓	✓											2
3	MW-21	9/3/2013	19:17		W		✓	6	V	V	V										✓	✓	✓		✓											3
4	MW-22	9/5/2013	15:23		W		✓	7	V	V	V										✓	✓	✓	✓	✓											4
5	MW-22 Matrix Spike	9/5/2013	15:31		W		✓	1	1	A	C										✓															5
6	MW-6 Duplicate	9/3/2013	15:34		W		✓	6	V	V	V										✓	✓	✓		✓											6
7	Equipment Blank	9/4/2013	19:19		W		✓	7	V	V	V										✓	✓	✓	✓	✓											7
8																																				8
9																																				9
10																																				10

3.4°C

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) AW Alan Sanders	9/6/13 8:40	2) Alan Sanders	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**)

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.

Final 1.000

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
Lab Code: LA024 Case No.:
Matrix: Solid
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: 21.3 decanted: (Y/N)
GC Column: RTX-35MS-3 ID: .25 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 476507 Analytical Batch: 476845

Sample ID MW-22-0-2
Contract:
SAS No.: SDG No.: 212031301
Lab Sample ID: 21203130101
Date Collected 03/08/12 Time: 0925
Date Received: 03/10/12
Date Extracted: 03/14/12
Date Analyzed: 03/15/12 Time: 1532
Dilution Factor: 1 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8081B
Sulfur Cleanup: (Y/N) N Instrument ID: GCS16A
Lab File ID: 2120315p/sv16a007

CONCENTRATION UNITS: ug/kg

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
Lab Code: LA024 Case No.:
Matrix: Solid
Sample wt/vol: 30.1 Units: g
Level: (low/med) LOW
% Moisture: 20.9 decanted: (Y/N)
GC Column: RTX-35MS-3 ID: .25 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 476507 Analytical Batch: 476845

Sample ID MW-22-3-5
Contract:
SAS No.: SDG No.: 212031301
Lab Sample ID: 21203130102
Date Collected 03/08/12 Time: 0930
Date Received: 03/10/12
Date Extracted: 03/14/12
Date Analyzed: 03/15/12 Time: 1550
Dilution Factor: 1 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8081B
Sulfur Cleanup: (Y/N) N Instrument ID: GCS16A
Lab File ID: 2120315p/sv16a008

CONCENTRATION UNITS: ug/kg

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
Lab Code: LA024 Case No.:
Matrix: Solid
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: 21.1 decanted: (Y/N)
GC Column: RTX-35MS-3 ID: .25 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 476507 Analytical Batch: 476845

Sample ID MW-22-8-10
Contract:
SAS No.: SDG No.: 212031301
Lab Sample ID: 21203130103
Date Collected 03/08/12 Time: 0945
Date Received: 03/10/12
Date Extracted: 03/14/12
Date Analyzed: 03/15/12 Time: 1609
Dilution Factor: 1 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8081B
Sulfur Cleanup: (Y/N) N Instrument ID: GCS16A
Lab File ID: 2120315p/sv16a009

CONCENTRATION UNITS: ug/kg

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
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 970 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-35MS-3 ID: .25 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 476436 Analytical Batch: 476717

Sample ID MW-22
Contract:
SAS No.: SDG No.: 212031301
Lab Sample ID: 21203130104
Date Collected 03/09/12 Time: 1020
Date Received: 03/10/12
Date Extracted: 03/13/12
Date Analyzed: 03/15/12 Time: 1554
Dilution Factor: 1 Analyst: TLS
Prep Method: 3510C
Analytical Method: SW-846 8081B
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15A
Lab File ID: 2120315/sv15a013

CONCENTRATION UNITS: ug/L

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
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 970 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-35MS-3 ID: .25 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 476436 Analytical Batch: 476738

Sample ID MW-22
Contract:
SAS No.: SDG No.: 212031301
Lab Sample ID: 21203130104
Date Collected 03/09/12 Time: 1020
Date Received: 03/10/12
Date Extracted: 03/13/12
Date Analyzed: 03/16/12 Time: 1343
Dilution Factor: 50 Analyst: TLS
Prep Method: 3510C
Analytical Method: SW-846 8081B
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15A
Lab File ID: 2120316/sv15a014

CONCENTRATION UNITS: ug/L

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	QC. LIMITS 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

FORM III ORG-2

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	RRF	% RSD
	50.000 Level 7							
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

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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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	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

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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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	RRF	% RSD
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	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++

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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	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++

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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 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	___ 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	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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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	___ RRF	% RSD
	50.000 Level 7							
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	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	___ 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 10:54

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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	___ 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

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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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	___ 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	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	___ RRF	% RSD
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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	___ 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

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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

$$\frac{548834 + 194055}{548834 + 194055 + 83884661} \times 100 = 0.9\ \%$$

DDT Breakdown: Criteria

< 15%

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Endrin Breakdown: Formula

$$\frac{(\text{Area Endrin ketone}) + (\text{Area Endrin aldehyde})}{(\text{Area End ket}) + (\text{Area End ald}) + (\text{Area Endrin})} \times 100$$

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:
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/gcsv15.i/2120313.b/pest35ms.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	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

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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

$$\frac{1040639 + 0}{1040639 + 0 + 90893541} \times 100 = 1.1\ \%$$

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

$$\frac{3438356 + 1044331}{3438356 + 1044331 + 97579730} \times 100 = 4.4\ \%$$

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.

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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.

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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

$$\frac{1089304 + 189561}{1089304 + 189561 + 90601504} \times 100 = 1.4\ \%$$

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

$$\frac{4874112 + 1806853}{4874112 + 1806853 + 94342466} \times 100 = 6.6\ \%$$

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
Lab File ID: sv15a013.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv15.i/2120316.b/pest35ms.m

Injection Date: 16-MAR-2012 12:19
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	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.

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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.

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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	RRF	% RSD
	50.000 Level 7							
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
	+++++							

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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							
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

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	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	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++

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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							
	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

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 10:57

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							
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	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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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 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	___ 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	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	RRF	% RSD
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

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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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	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

	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							
	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

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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:
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/gcsv15b.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	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

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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.

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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

$$\frac{2123188 + 557295}{2123188 + 557295 + 135958680} \times 100 = 1.9\ \%$$

DDT Breakdown: Criteria

< 15%

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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

$$\frac{9579598 + 5328852}{9579598 + 5328852 + 126377835} \times 100 = 10.6\ \%$$

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
Lab File ID: sv15b015.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv15b.i/2120316.b/pestXLB.m

Injection Date: 16-MAR-2012 14:19
Init. Cal. Date(s): 13-MAR-2012 13-MAR-2012
Init. Cal. Times: 09:12 12:12
Quant Type: ESTD

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.

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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

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	RRF	% RSD
	50.000 Level 7							
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
	+++++							

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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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	___ 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

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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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	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

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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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	___ 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

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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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	RRF	% RSD
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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	___ 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

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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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	RRF	% RSD
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
82 AR 1268-PEAK5	+++++	+++++	221232	+++++	+++++	+++++	+++++	221232	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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	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

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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

Average %RSD Results.
Calculated Average %RSD = 5.52465
Maximun Average %RSD = 20.00000
* Passed Average %RSD Test.

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Gulf Coast Analytical Laboratories, Inc.

Breakdown Calculation

DDT Breakdown: Formula

$$\frac{(\text{Area DDD}) + (\text{Area DDE})}{(\text{Area DDD}) + (\text{Area DDE}) + (\text{Area DDT})} \times 100$$

DDT Breakdown: Calculation

$$\frac{1176740 + 1116343}{1176740 + 1116343 + 149663856} \times 100 = 1.5\ \%$$

DDT Breakdown: Criteria

< 15%

==========

Endrin Breakdown: Formula

$$\frac{(\text{Area Endrin ketone}) + (\text{Area Endrin aldehyde})}{(\text{Area End ket}) + (\text{Area End ald}) + (\text{Area Endrin})} \times 100$$

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

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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.

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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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	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
	+++++							

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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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	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

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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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	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	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

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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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	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

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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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	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

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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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	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

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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	RRF	% RSD
		50.000 Level 7							
	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

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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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	RRF	% RSD
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	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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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 / 50.000 Level 7	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	RRF	% RSD
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	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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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
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

$$\frac{(\text{Area DDD}) + (\text{Area DDE})}{(\text{Area DDD}) + (\text{Area DDE}) + (\text{Area DDT})} \times 100$$

DDT Breakdown: Calculation

$$\frac{893794 + 1450742}{893794 + 1450742 + 164637213} \times 100 = 1.4\ \%$$

DDT Breakdown: Criteria

< 15%

==========

Endrin Breakdown: Formula

$$\frac{(\text{Area Endrin ketone}) + (\text{Area Endrin aldehyde})}{(\text{Area End ket}) + (\text{Area End ald}) + (\text{Area Endrin})} \times 100$$

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

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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

$$\frac{3351304 + 406248}{3351304 + 406248 + 191016270} \times 100 = 1.9\ \%$$

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

$$\frac{10164585 + 4584808}{10164585 + 4584808 + 193543257} \times 100 = 7.1\ \%$$

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.

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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.

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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: 118952
24									
25									HEXANE Lot No: 101667
26									
27									Sodium Sulfate Lot No: 112774
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	507-91-6	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					[signature]	3/13/12

Revision 3, 10/04/2010

* out of Hold today

212031301 93

PESTICIDE SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME: 540	Start: ~~3/13/12~~ 3/14/12	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
2	QC ACCOUNT	LCS for HBN 476507 [EXTO/31117	1041540	30.0	10.0		LCS		NA
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
6	4380	MW-22-8-10	21203130103	30.0	10.0		SAMPLE		NA
7	2377	A (X)	21203131102	30.0	10.0		SAMPLE		SONICATOR/3550
8	2377	B	21203131103	30.0	10.0		SAMPLE		
9	2377	C	21203131104	30.2	10.0		SAMPLE		FLORISIL CLEANUP/3620
10	QC ACCOUNT	C(1041253MS)	1041542	30.0	10.0		MS		NA
11	QC ACCOUNT	C(1041253MSD)	1041543	30.0	10.0		MSD		PCB H2So4/3665A CLEANUP
12									
13									WASTE DILUTION/3580
14									NA
15									TCLP EXTRACTION FLUID1
16									NA
17									TCLP EXTRACTION FLUID2
18									NA
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: M33557 TEMP: 101°

SURROGATE ID	50-41-1	8081 SPIKE ID		608 SPIKE ID	50-41-6	TECHNICIAN	DATE
VOLUME	1 ml	VOLUME		VOLUME	1 ml	BDT	03-16-12
CONCENTRATION	0.5 ug	CONCENTRATION		CONCENTRATION	0.5 ug		
ACID						SUPERVISOR	DATE
SPIKE WITNESS	BB					[illegible]	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			
CH2 M 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

P.O. Number:
Project Name/Number: Bainbridge /
Sampled By: Philip Jones

Analytical Requests & Method

Lab use only:
Custody Seal used ☑ yes ☐ no
intact ☑ yes ☐ no
Temperature °C 2.2

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	3-7-12	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]	3/14/12	1145
8750 1582 1564			

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

COC 106 F0212

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**