

**SECOND (2<sup>ND</sup>) VRP SEMI-ANNUAL PROGRESS REPORT  
FOR THE  
FORMER LOEF FACILITY (HULL)  
ATHENS, CLARKE COUNTY, GEORGIA<sup>®</sup>  
HSI#10376**

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THE INFORMATION CONTAINED IN THIS REPORT TITLED  
"SECOND (2<sup>ND</sup>) VRP SEMI-ANNUAL PROGRESS REPORT  
FOR THE  
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HSI#10866

IS INTENDED FOR THE  
USE OF HULL ROAD ASSOCIATES, THEIR OFFICERS  
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AND THE  
GEORGIA DEPARTMENT OF NATURAL RESOURCES

Project No. 2318

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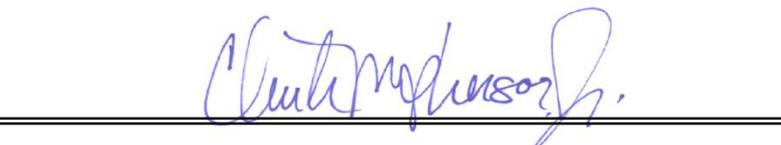
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**APRIL 2013**

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## CERTIFICATION

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



John P. Martiniere, Jr., P.E.  
Georgia Registration No. 11858



A monthly summary of Professional Engineer hours expended as part of this semi-annual progress report is included as **Appendix F**.

## TABLE OF CONTENTS

1.0	INTRODUCTION AND BACKGROUND .....	1
1.1	INTRODUCTION.....	1
1.2	PROPERTY DESCRIPTION .....	1
1.3	PROPERTY BACKGROUND .....	2
1.3.1	Baumgartner & Associates (Environmental Site Assessment).....	2
1.3.2	Kiber Environmental Services (CSR).....	3
1.3.3	Kiber Environmental Services (Revised CSR & CAP) .....	4
1.3.4	Peachtree Environmental, Inc. (CAP).....	4
1.3.5	PEI (CSR).....	5
1.3.6	PEI (Remedial Technology Pilot Study Effectiveness Report).....	5
1.3.7	PEI (Supplemental CSR Information) .....	5
1.3.8	December 14, 2005 Meeting (GEPD & PEI).....	5
1.3.9	PEI (July 2006 Groundwater Assessment Report) .....	6
1.3.10	PEI (June 2009 Groundwater Sampling Event.....	6
1.3.11	August 17, 2009 Meeting With the GEPD .....	7
1.3.12	November 16, 2009 GEPD Comment Letter and Responses.....	7
1.3.13	PEI (Groundwater Corrective Action Plan Addendum, October 2010).....	7
1.3.14	VIRP Application, November 2011 .....	8
1.3.15	Georgia EPD VRP Application Comment and Approval Letter .....	8
1.3.16	September 10, 2012 Meeting With the GEPD .....	8
2.0	PRELIMINARY CONCEPTUAL SITE MODEL .....	9
2.1	SURFACE AND SUB-SURFACE SETTING .....	9
2.1.1	Surface Setting .....	9
2.1.2	Subsurface Setting .....	9
2.2	REGULATED SUBSTANCES .....	11
2.3	KNOWN OR SUSPECTED SOURCE AREAS .....	12
2.4	CONTAMINANT MIGRATION PATHWAYS.....	13
2.5	SOIL AND GROUNDWATER IMPACTS.....	14
2.5.1	Soil Impacts .....	14
2.5.2	Groundwater Impacts .....	14

3.0	2013 MONITORING WELL INSTALLATION ACTIVITIES.....	15
3.1	APPROACH AND RATIONALE.....	15
3.2	WELL INSTALLATION AND CONSTRUCTION.....	15
4.0	2013 SEMI-ANNUAL GROUNDWATER MONITORING ACTIVITIES....	17
4.1	GROUNDWATER ELEVATION.....	17
4.2	WELL PURGING.....	18
4.3	SAMPLING PROCEDURES .....	19
4.4	DECONTAMINATION PROCEDURES.....	19
4.5	ANALYTICAL PROCEDURES .....	20
4.6	RESULTS.....	20
4.7	GROUNDWATER DELINEATION STANDARDS .....	21
4.8	PROPOSED VRP INVESTIGATION ACTIVITIES .....	23
5.0	PRELIMINARY REMEDIATION PLAN.....	24

## **LIST OF TABLES**

Table 1 – Summary of Groundwater Elevation Measurements

Table 2 – Historic Groundwater Analytical Results

Table 3 – Historic MNA Parameter Results

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## **LIST OF FIGURES**

Figure 1 – Site Location Map

Figure 2A – Site Layout Map Depicting Tax Parcel IDs

Figure 2B – Site Layout and Monitoring Well Location Map

Figure 3 – USGS Topographic Map

Figure 4 – Former Source Area and Monitoring Well Location Map

Figure 5 – Cross-Section Location Map

Figure 6A – Cross-Section (A – A')

Figure 6B – Cross-Section (B – B')

Figure 7 – Potentiometric Surface Map – March 7, 2013

Figure 8 – Groundwater Analytical Results – March 2013

Figure 9 – TCE and Breakdown Constituents Isocontour – March 2013

Figure 10 – BTEX and Petroleum Related Constituent Isocontour – March 2013

Figure 11 – PCE Isocontour – March 2013

Figure 12 – Proposed Horizontal Delineation Well Location Map

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## **LIST OF APPENDICES**

Appendix A – Groundwater Monitoring Well Diagrams

Appendix B – Field Water Quality Sampling Forms

Appendix C – Historic Groundwater Trend Graphs

Appendix D – Laboratory Accreditation and Analytical Data Reports

Appendix E – Schedule

Appendix F – Monthly Summary of Professional Engineer Hours

## ACRONYMS

AES	Analytical Environmental Services, Inc.
APLS	Aqueous Phase Liquids
Applicant	Hull
bgs	Below Ground Surface
bls	Below Land Surface
CAP	Corrective Action Plan
CSR	Compliance Status Report
COCs	Constituents of Concern
COPC	Constituent of Potential Concern
CSM	Conceptual Site Model
Georgia EPD	Georgia Environmental Protection Division
GHWMA	Georgia Hazardous Waste Management Act
HSI	Hazardous Site Inventory
HSRA	Hazardous Site Response Act
HSRP	Hazardous Site Response Program
Hull	Hull Road Associates, Inc.
HWMA	Hazardous Waste Management Act
IRIS	Integrated Risk Information System
MCL	Maximum Contaminant Levels
µg/L	Micrograms per Liter (same as ppb)
mg/Kg	Milligrams per Kilogram (same as ppm)
mg/L	Milligrams per Liter (same as ppm)
NC	Notification Concentration
PAHs	Polyaromatic Hydrocarbons
Peachtree	Peachtree Environmental
POD	Point of Demonstration
ppb	Parts per Billion
ppm	Parts per Million
PRE	Preliminary Risk Evaluation
RAGS	Risk Assessment Guidance for Superfund
RBCA	Risk Based Corrective Action
REC	Recognized Environmental Conditions
RN	Release Notification
RQSM	Reportable Quantities Screening Method
RRS	Risk Reduction Standard
Site	Former Loef Facility
SVOCs	Semi-Volatile Organic Compounds
TCLP	Toxicity Characteristic Leaching Procedure
UCL	Upper Confidence Level
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
VIRP	Voluntary Investigation and Remediation Program
VRP	Voluntary Remediation Program
VOCs	Volatile Organic Compounds

## 1.0 INTRODUCTION AND BACKGROUND

### 1.1 INTRODUCTION

PEACHTREE ENVIRONMENTAL (Peachtree) is submitting this Semi-Annual Progress Report on behalf of HULL ROAD ASSOCIATES, INC., (Hull and/or “Applicant”) for the former Loef Facility, HSI#10376 (the “VRP Property”). The purpose of this report is to update the Conceptual Site Model (CSM) and to detail activities which have been completed since the VRP Property’s acceptance into the Voluntary Remediation Program (VRP) in May 2012.

### 1.2 PROPERTY DESCRIPTION

The VRP Property has a latitude coordinate of 33° 58' 57.95" North and a longitude coordinate of 83° 20' 31.60" West. A VRP Property Location Map is included as **Figure 1**. The VRP Property consists of three (3) parcels of land totaling 21.34 acres which are more fully described as follows:

- ▶ 0 Old Hull Road - Parcel ID: 221 002 C (1.63 Acres);
- ▶ 590 Old Hull Road - Parcel ID: 221 001 (15 Acres); and
- ▶ 305 Athena Drive - Parcel ID 162 037 (4.71 Acres).

A VRP Property Layout Map depicting the Site’s tax parcel IDs is provided as **Figure 2A**.

The VRP Property is located approximately three (3) miles east of the central business district of the City of Athens, Clarke County, Georgia on Old Hull Road (County Road 127). The facility is bounded by:

- ▶ West - Old Hull Road;
- ▶ South - A natural gas line easement and a vacant wooded lot with Athena Drive beyond;
- ▶ North - Unpaved and unused dead-end easement of Calhoun Drive; and
- ▶ East - CSXT / Former Seaboard Coastline rail line.

The facility operates as an industrial scrap metal recycling facility and includes an office, warehouse, maintenance building, shredder, bailer, and other buildings and equipment used in its operations. The Site (area impacted by releases of COCs) consists of adjacent property to the north and to the south (natural gas line easement to Athena Drive) and to the east including Seaboard Coastline rail line right-of-way on the west side of the tracks.

### **1.3 PROPERTY BACKGROUND**

Detailed below are annotated descriptions of the findings of past investigations and regulatory correspondence which were developed as part of the previous assessments conducted for the subject facility. These reports include the following:

#### **1.3.1 Baumgartner & Associates (Environmental Site Assessment)**

Baumgartner & Associates, Inc. (Baumgartner) conducted a Phase I Environmental Site Assessment (ESA) in/around January 1995. Based on the findings of the ESA, the facility submitted a Hazardous Substance Release Notification/Reporting Form in February 1995. The notification form indicated the following regulated substances were detected above the soil Notification Concentrations (NCs): Copper, Lead, Manganese, PCBs, Silver, and Zinc. The following regulated substances were also reported as exceeding the groundwater notification concentrations: Barium, Trichloroethene (TCE), and Xylene.

A well survey provided by Baumgartner identified only one private drinking water well within a one-mile radius of the Site, this being an onsite production well. The nearest public water supply well was identified to be located a little less than 2 miles southeast of the Site. In addition, a public drinking water intake on the Oconee River was identified approximately 2.7 miles west of the Site. The on-Site production well was disconnected from all drinking water connections in June 1993 after samples revealed TCE concentrations above the laboratory method detection limit. Subsequent to the discontinuance of the use of the on-Site well for consumptive purposes, the Notification Form reported the public water supply well as the closest identified well to the Site.

The GEPD responded to the facility's notification in a letter dated June 9, 1995, which concurred that a reportable release of regulated substances had occurred at the Site and listed the Site on the Hazardous Site Inventory (HSI). Based on the information provided to the GEPD (the data from the Baumgartner ESA), groundwater and on-Site exposure pathway scores were calculated using the Reportable Quantities Screening Method (RQSM). The groundwater pathway score was calculated to be 4.88 out of a possible maximum score of 100. (The groundwater pathway score was rescored and amended to 14.63 in July 1997.) The on-Site exposure pathway score for soil was calculated to be 55.56 out of a possible maximum score of 100. These scores were compared to threshold scores of 10 for groundwater and 20 for soil to evaluate the need for corrective action and the listing category under the HSRA Regulations for the Site (i.e., Class I, Class II, Class III or Class IV). The Site was listed on the HSI as a Class II Site on June 9, 1995. The HSI number for the Site is 10376.

### **1.3.2 Kiber Environmental Services (CSR)**

In April 1995, Kiber Environmental Services, Inc. (Kiber) was retained by the facility to complete additional Site assessment activities. These activities included the completion of a Compliance Status Report (CSR), as well as preliminary activities related to planned soil removal for those impacted soils exceeding applicable RRS.

From November 1995 to May 1996, Kiber conducted soil removal activities in areas of the Site identified as having impacted soils exceeding applicable Type 3 RRS (i.e., non-residential property). As required in Section 391-3-19-.07(8) of the Hazardous Site Response Rules, prior to the implementation of the removal activities, Kiber evaluated and calculated Type 3 RRS for the following regulated substances of concern or constituents of concern (COCs): Copper, Lead, Silver, and Polychlorinated biphenyls (PCBs).

Verification samples were collected to evaluate whether excavated areas were in compliance with the Type 3 RRS or whether additional soil removal was necessary. As a result of the 1995 /1996 corrective action activities, compliance with Type 3 RRS was reportedly achieved for all of the identified COCs with the exception of Zinc. No additional corrective action activities were performed at that time.

Kiber subsequently submitted a CSR in March of 1997. The GEPD reviewed and commented on the March 1997 CSR with a Notice of Deficiency letter, dated July 18, 1997.

### **1.3.3 Kiber Environmental Services (Revised CSR & CAP)**

A Revised CSR was submitted by Kiber in August 1997, followed by a CAP in October 1997. Portions of the work described in the Revised CSR and CAP were implemented by the previous owner (The Loeff Company, the owner immediately prior to Hull Real Estate, LLC's ownership). In summary, previous environmental assessment and corrective action activities at the Site principally focused on assessing soil conditions across portions of the Site and removal of soils from potential source areas identified as Area 4 (Shredder Source Area), Area 5 (Bailer Source Area), and Area 6 (South Run-off Area). Limited groundwater quality assessment activities were performed by previous property owners. Based upon the limited groundwater assessment data, the GEPD determined that further groundwater assessment work was required.

### **1.3.4 Peachtree Environmental, Inc. (CAP)**

Peachtree Environmental, Inc. (PEI) was retained by Hull in 2000 to complete additional assessment activities for the purpose of designing, preparing, and implementing a CAP. These activities included additional groundwater assessment activities to evaluate both the horizontal and vertical extent of impact both on the Site (facility), as well as adjacent properties, and a surface and subsurface soils assessment.

Based on these additional assessment activities, it was determined that areas of impacted surface and subsurface soils and groundwater existed at the Site which required additional corrective action activities. The extent of the COCs in the soils and groundwater were not fully defined to background levels during CAP assessment activities; however, the data acquired were considered to be sufficient to develop and implement the approved CAP. Peachtree submitted the CAP to the GEPD on October 5, 2001. The CAP was conditionally approved by the GEPD on February 28, 2002.

### **1.3.5 PEI (CSR)**

PEI, on behalf of Hull, submitted a CSR to the GEPD on February 6, 2004 to document compliance with soil RRS following the implementation and completion of CAP activities from the time period of November of 2002 to September of 2003. The CSR was formally accepted by the GEPD on November 16, 2009.

### **1.3.6 PEI (Remedial Technology Pilot Study Effectiveness Report)**

The approved CAP for the Site was principally designed to remediate regulated constituents in soil to applicable RRS. In addition, the CAP specified a pilot-scale groundwater remedial technology for addressing substances detected in Site groundwater (principally volatile organics). The selected technology utilized the injection of a Hydrogen Releasing Compound (HRC™) into the soils and groundwater in and around the area where monitoring well MW-2A is located.

The HRC™ was injected in a grid pattern on 20 foot centers, covering an area approximately 80 feet by 100 feet at a depth extending down to 25 feet (within the groundwater table). The HRC™ was applied to each injection point at depth (25 feet) across the grid matrix. Post-injection results were evaluated from the time period of June 2003 to September 2004. The results of the technology evaluation were detailed in a Remedial Technology Pilot Study Effectiveness Report submitted to the GEPD on February 11, 2005.

### **1.3.7 PEI (Supplemental CSR Information)**

The GEPD requested, in a letter dated December 1, 2004, supplemental information to complete their review of the February 2004 CSR. The information requested included revised CSR text, figures, and legal description of the property. PEI responded with a submission of the requested information on February 22, 2005.

### **1.3.8 December 14, 2005 Meeting (GEPD & PEI)**

PEI, on behalf of Hull, met with the GEPD to discuss the February 2004 CSR and the Groundwater Remedial Technology Pilot Study Effectiveness Report submitted in February 2005. EPD requested further sampling of Site soils to determine the extent of compliance with calculated background

concentrations, compliance with applicable RRS, and text changes. The requested information was submitted in a revised CSR Addendum submitted to the GEPD on December 19, 2006.

### **1.3.9 PEI (July 2006 Groundwater Assessment Report)**

The GEPD responded to the February 2005 Groundwater Remedial Technology Pilot Study Effectiveness Report with a letter dated January 30, 2006. The letter required Hull to investigate the soil and groundwater up-gradient of MW-2A to identify any potential source of VOC impact in soil and to characterize the distribution of the groundwater plume in the up-gradient direction. In addition, all other on-site permanent wells were required to be sampled such that a design of additional groundwater corrective action activities could be completed.

PEI initiated the collection of temporary groundwater samples, in conjunction with soil sampling activities described above, on May 4, 2006 and sampled permanent groundwater wells on May 9, 2006. The primary objective of the groundwater sampling activities was twofold: 1) to identify and characterize the up-gradient extent of the groundwater plume observed around MW-2A; and 2) to provide an indication of the current extent of groundwater impact. A total of five (5) temporary groundwater wells were installed and sampled during the May 4, 2006 sampling effort. A total of seven (7) permanent wells were developed and sampled as part of the May 9, 2006 sampling event.

Analytical testing results did not identify the presence of any soil source areas up-gradient of MW-2A. Additionally, groundwater concentrations were not elevated in the temporary monitoring wells to an extent indicative of an up-gradient source of groundwater impact.

### **1.3.10 PEI (June 2009 Groundwater Sampling Event)**

A groundwater sampling event was conducted in June of 2009. A total of seven (7) groundwater monitoring wells (MW-2A to MW-4A, MW-6, and MW-7A to MW-9A) were sampled on June 17, 2009 in order to assess the condition of the groundwater plume at that time. Analytical testing results indicated a dramatic decrease in concentrations of regulated substances in monitoring well MW-2A, as well as decreasing concentrations of regulated substances in monitoring wells MW-3A and MW-4A as compared to the

results of prior sampling events. Please refer to **Table 2** for those concentration comparisons.

#### **1.3.11 August 17, 2009 Meeting With the GEPD**

Representatives of Hull met with the GEPD on August 17, 2009 to discuss the approval of the soil CSR submitted in February 2004 and revised in December 2006, and the status of the Groundwater Assessment Report submitted in July 2006. A copy of the June 2009 groundwater sampling data was also provided to the GEPD during that meeting, and groundwater corrective action utilizing a Monitored Natural Attenuation (MNA) approach was discussed as a potential corrective action alternative for addressing impacted groundwater at the Site.

#### **1.3.12 November 16, 2009 GEPD Comment Letter and Responses**

The GEPD issued a letter on November 16, 2009 with technical comments on the July 2006 Groundwater Assessment Report and the June 2009 groundwater data provided during the August 17, 2009 meeting. The GEPD requested that the comments be addressed in a revised CAP by January 15, 2010. The January 13, 2010 response stated that Hull was currently evaluating the most effective corrective action alternatives to address impacted groundwater at the Site. Hull also provided a Supplemental Response to the November 16, 2009 GEPD Comments, dated January 29, 2010 which provided more detail on a proposed CAP employing MNA as a remedy, and a schedule for implementation of the revised CAP. On February 11, 2010, the GEPD approved the submittal of a groundwater CAP that addressed the GEPD comments of November 16, 2009.

#### **1.3.13 PEI (Groundwater Corrective Action Plan Addendum, October 2010)**

A groundwater CAP Addendum was submitted to the GEPD on October 14, 2010. The CAP summarized previous assessment and corrective action efforts, evaluated risk relative to current groundwater conditions, established corrective action objectives, evaluated and selected an applicable remedial technology, and proposed a schedule for monitoring and reporting corrective action progress. The evaluation of applicable

remedial technologies led to the selection of Monitored Natural Attenuation (MNA) to address groundwater impacts at the Site.

#### **1.3.14 VIRP Application, November 2011**

In November 2011, a VRP application was submitted by PEI for the Site utilizing the August 2011 semi-annual groundwater sampling data. The VRP application was submitted in place of the Annual Groundwater Monitoring Report, outlined in the 2010 CAP Addendum schedule. Likewise, in accordance with the October 2010 CAP Addendum schedule, Marvera Ventures, LLC dba Peachtree Environmental (Peachtree), who purchased the assets of PEI in December 2011, completed a semi-annual groundwater monitoring event in February 2012 prior to approval of the VRP application.

#### **1.3.15 Georgia EPD VRP Application Comment and Approval Letter**

The Georgia EPD provided comments relative to its review of the November 2011 VRP Application and simultaneously approved the VRP Application in a letter dated May 3, 2012 with certain conditions. These conditions / comments are addressed in the cover letter provided with the October 2012 1<sup>st</sup> Semi-Annual Progress Report along with the results of the February 2012 and September 2012 groundwater monitoring events.

#### **1.3.16 September 10, 2012 Meeting With the GEPD**

Representatives of Hull, including Peachtree, met with the GEPD on September 10, 2012 to discuss the proposed horizontal and vertical delineation well locations required of the VRP Property. Based on these discussions, GEPD, Hull Representatives and Peachtree agreed on the new well locations within the central, western, and eastern portion of the VRP Property. Peachtree completed on-site horizontal delineation activities in December 2012 via the installation of MW-10, MW-11, MW-12, MW-13, and MW-14. An illustration of the VRP Property layout, including the on-site monitoring wells, is provided as **Figure 2B**. A discussion of the December 2013 horizontal delineation well installation methods and corresponding groundwater analytical results are provided in Sections 3.0 and 4.0, respectively.

## **2.0 PRELIMINARY CONCEPTUAL SITE MODEL**

A Preliminary 3-D conceptual site model (CSM) has been developed for the VRP Property. The CSM will be utilized to:

- Integrate technical data from various sources;
- Support the selection of sample locations;
- Identify data gaps/needs; and
- Evaluate risks to human health and the environment.

The following provides a description of the various factors (surface / sub-surface setting, regulated substances, known or suspected source areas, contaminant migration pathways, and soil and groundwater impacts) considered during the development of the CSM.

### **2.1 SURFACE AND SUB-SURFACE SETTING**

#### **2.1.1 Surface Setting**

The surface setting at the VRP Property consists of a 52,800 square foot (sq. ft.) single-story warehouse, a 4,800 sq. ft. single-story maintenance building, and a 5,250 sq. ft., single-story office building. The office building is constructed of brick, while the warehouse and maintenance building are constructed of metal paneling. Each of the on-site structures is situated on a concrete slab. The parking lot and driveway associated with the VRP Property is constructed of asphalt, concrete, and un-paved surfaces (bare earth). A scrap metal shredding machine, baler, cutting areas, metal staging areas, and associated transport rail spurs are present within the central portion of the VRP Property. The property is designated for industrial use.

#### **2.1.2 Subsurface Setting**

The VRP Property lies within the Piedmont Physiographic Province of Georgia which is characterized by broad rolling upland or plateau underlain by a variety of metamorphosed plutonic, volcanic, and sedimentary rocks

including gneiss, schist, amphibolite, and diabase and by un-metamorphosed granite plutons and diabase dikes. Regional stresses have warped the rocks into numerous folds and the sequence has been extensively faulted. The VRP Property is situated in an area where the rock unit consists of thinly laminated muscovite gneiss that retains distinctive layering when weathered.

Rock units in this physiographic province generally range in thickness from less than 1,000 feet to possibly more than 10,000 feet. Bedrock in the area is generally covered by unconsolidated material composed of saprolite, alluvium, and soil, collectively referred to as regolith. This material ranges in depth from 0 to approximately 200 feet. These soils are relatively porous and, depending on the thickness and topographic setting, have the potential to absorb and store large quantities of precipitation.

Groundwater in the Piedmont province occupies joints, fractures, and other secondary openings in the bedrock and pore spaces in the overlying regolith. Unweathered and unfractured bedrock in the area has very low porosity. Thus, the quantity of water that a rock unit can store and transmit to wells is determined by the number, capacity, and interconnection of the secondary openings. A previous production well located on the Site was completed to a depth 320 feet with a 6-inch diameter casing to 84 feet and an open rock borehole thereafter. Wells screened and/or completed to similar depths typically yield from 20 to 300 gallons per minute of water with well casing depths ranging from 16 to 200 feet.

Topographic and geologic information regarding the VRP Property has been obtained from past assessments. The topographic relief across the VRP Property follows a northwest to southeast gradient with elevations of approximately 720 feet above mean sea level (AMSL) at the northern property boundary to approximately 695 feet AMSL at the southeastern property boundary. A USGS Topographic Map is provided as **Figure 3**.

Native soils across the VRP Property consist primarily of sandy and clayey silt. The developed portions of the Site have varying thicknesses of fill on top of native soils. Based on the construction details of the aforementioned production well, the depth to bedrock is greater than 50 feet.

## 2.2 REGULATED SUBSTANCES

As a result of previous investigation activities, the following regulated substances have been detected/reported at concentrations exceeding the laboratory method detection limit during past and current VRP Property assessment events:

### Soil

#### Inorganic Constituents:

Antimony (CAS No. 7440360)  
Beryllium (CAS No. 7440417)  
Cadmium (CAS No. 7440439)  
Copper (CAS No. 7440508)  
Lead (CAS No.7439921)  
Silver (CAS No.7440224)  
Zinc (CAS No.7440666)

#### Organic Constituents:

Polychlorinated Biphenyls (CAS No. 80386)  
Trichloroethene (CAS No. 79016)

### Groundwater

#### Inorganic Constituents:

Lead (CAS No.7439921)

#### Organic Constituents:

1,1,1-Trichloroethane (CAS No. 71556)  
1,1,2-Trichloroethane (CAS No. 70005)  
1,1-Dichloroethane (CAS No. 75343)  
1,1-Dichloroethene (CAS No. 75354)  
2-Butanone (CAS No. 78933)  
2-Hexanone (CAS No. 591786)  
4-Methyl-2-Pentanone (CAS No. 108101)  
Acetone (CAS No. 67641)  
Benzene (CAS No. 71432)  
Carbon Disulfide (CAS No. 75150)  
Chloroform (CAS No. 67663)  
cis-1,2-Dichloroethene (CAS No. 156592)  
Ethylbenzene (CAS No. 100414)  
Methyl Tert-butyl Ether (CAS No. 1634044)  
Tetrachloroethene (CAS No.127184)  
Toluene (CAS No. 108883)  
Trichloroethene (CAS No. 79016)  
Trichlorofluoromethane (CAS No. 75694)

Vinyl Chloride (CAS No. 75014)  
Xylene, Total (CAS No. 1330207)

## 2.3 KNOWN OR SUSPECTED SOURCE AREAS

Several areas which have contributed to a release of COCs at the VRP Property have been identified in previous characterization work and were remediated during soil CAP activities completed in 2002/2003. The quantity and nature of releases associated with the identified potential sources are unknown since they likely occurred over a long period of time rather than from one or more discrete events. The COCs identified for the VRP Property are principally associated with scrap metal processing operations.

Operations at the VRP Property can generally be divided into the following areas which have been designated as potential COCs source areas. Soil CAP implementation activities were put into effect extending over the time period of November 2002 to October 2003 and resulted in the removal of a total of 43,108 tons of soils exceeding regulatory standards. Specifically, former soil source area details are as follows:

- ▶ **Area 1: Oil / Water Separator Area** - Lead and Copper concentrations were identified in excess of their respective Type 3 RRS within the Oil / Water Separator Area (Area 1). An estimated total of 271 tons of soil exceeding RRS were removed from Area 1 during CAP implementation activities.
- ▶ **Area 2: Eastern Runoff Area** - Lead, Copper and Zinc were detected at concentrations in excess of the approved Type 3 RRS within the Eastern Runoff Area (Area 2). An estimated total of 459 tons of soil were removed from Area 2 during CAP implementation activities.
- ▶ **Area 3: Fluff Storage Area** - No COCs, including Lead, were detected above Type 3 RRS in soil samples collected from Area 3 soil borings utilized to design soil corrective action activities. This area was the focal point of the previous corrective action activities completed in 1995 during which a total of 1,500 tons of soil were excavated and removed from the Site. Therefore, no additional corrective action activities were required for this area of the Facility.

- ▶ **Area 4: Shredder Area** - Antimony, Lead, Copper, Zinc, and PCBs were detected at concentrations in excess of the approved Type 3 and Type 4 RRS within the Shredder Area (Area 4). TCE was also detected above the laboratory detection limit, but below the applicable RRS. An estimated total of 23,060 tons of impacted soil exceeding applicable RRS were removed from Area 4 during CAP implementation activities.
  
- ▶ **Area 5: Baler Area** - Antimony, Cadmium, Copper, Zinc, and PCBs were detected above their respective Type 3 and Type 4 RRS within the Baler Area (Area 5). An estimated total of 11,350 tons of impacted soil exceeding applicable RRS were removed from Area 5 during CAP implementation activities.
  
- ▶ **Area 6: Southern Runoff Area** - Lead and Zinc were detected at concentrations in excess of the approved Type 3 RRS within the South Run-Off Area (Area 6). An estimated total of 2,200 tons of impacted soils exceeding applicable RRS were removed from Area 6 during CAP implementation activities.

The former source areas described in the preceding paragraphs are depicted on **Figure 4**. A cross-section location map and associated CSM cross-sections depicting the relevant site features, including the former source areas, post-excavation backfilled areas, and newly installed horizontal delineation wells are included as **Figure 5** and **Figures 6A-B**, respectively.

## **2.4 CONTAMINANT MIGRATION PATHWAYS**

A preliminary evaluation of the contaminant migration pathway has been completed and includes the following:

- Horizontal and vertical migration within the shallow water table, based on hydraulic properties and flow direction.

As the aforementioned impacted soil areas at the VRP Property have been removed, the contaminant migration pathway is likely isolated to groundwater. A final evaluation of the contaminant migration pathways will be performed during the implementation of the Preliminary Remediation Plan and included in the VRP CSR.

## **2.5 SOIL AND GROUNDWATER IMPACTS**

### **2.5.1 Soil Impacts**

Soil CAP was implemented from November 2002 to October 2003 and resulted in the removal of a total of 43,108 tons of soils exceeding regulatory standards. A CSR for soil was submitted to the GEPD in February of 2004 with supplemental CSR information submitted in February of 2005. The CSR certified compliance with non-residential Type 3 and Type 4 RRS for soils and EPD concurred that those standards were met in a letter dated November 16, 2009. In addition, soils were delineated to background concentrations for constituents of concern. As such, the delineation criteria for the VRP Property has been previously addressed as part of the CSR activities for soil and, as such, no further soil delineation activities are planned at this time as part of this VIRP.

### **2.5.2 Groundwater Impacts**

Based on the analytical results of Peachtree's August 2011, February 2012, September 2012, and March 2013 groundwater investigation activities, as many as sixteen (16) constituents of concern (COCs) were detected above laboratory reporting limits in groundwater. Of these COCs, 1,1-Dichloroethene, Benzene, cis-1,2-Dichloroethene, Tetrachloroethene, Trichloroethene, and Vinyl Chloride exceed Type 1/3 RRS for groundwater. Procedures and results of the March 2013 semiannual sampling event are provided in Section 4.0.

### **3.0 2013 MONITORING WELL INSTALLATION ACTIVITIES**

#### **3.1 APPROACH AND RATIONALE**

In an effort to complete on-site horizontal delineation activities at the VRP Property, a total of five (5) groundwater monitoring wells (MW-10, MW-11, MW-12, MW-13, and MW-14) were installed at the VRP Property on December 19-21, 2012. The locations of these monitoring wells are depicted on **Figure 2B**.

Peachtree's environmental investigation work (well installation approach, well development procedures, well purging, sample collection, sample containers, preservation materials, decontamination procedures for field equipment/instrumentation) were conducted utilizing the US EPA Region IV Science and Ecosystem Support Division (SESD) Operating Procedures, dated December 2011 and March 2013. Specifically, all field equipment decontamination activities were conducted in accordance with the SESD Operating Procedures for Field Equipment and Decontamination (SESDPROC-205-R2, December 2011; Section 3, as applicable); while sampling activities were conducted in accordance with procedures outlined in SESD Operating Procedures for Groundwater Sampling (SESDPROC-301-R3, March 2013; Sections 3 and 4).

#### **3.2 WELL INSTALLATION AND CONSTRUCTION**

The monitoring wells (MW-10 through MW-14) installed at the VRP Property were constructed of 2-inch diameter, flush coupled, Schedule 40 PVC. The monitoring wells were installed with a screen slot size of 0.010 inches and length of 10 feet. Completion depth for each of the monitoring wells is approximately 35 ft-bgs.

In each monitoring well, the screened interval was set across the water table to allow for seasonal water level fluctuations. A sand pack was placed extending from the bottom to at least two feet above the screen and was constructed with a minimum 2-foot thick bentonite seal placed above the sand pack. The annular space was filled with a hydrated bentonite to the surface. Monitoring wells MW-10, MW-12, and MW-13 were fitted with a flush-mounted, bolt-down steel protective cover, while monitoring wells MW-11 and MW-14 were fitted with steel, stick-up protective covers. Metal protective bollards were installed at

each monitoring well locations. A distinctive marking was placed on the top of each well casing which serves as a benchmark for surveying purposes.

Soil borings for each of the wells were advanced utilizing hollow-stem auger drilling methods. Following installation, each monitoring well was developed by purging the well with a submersible pump until the water was relatively free of suspended solids, and the pH, temperature and conductivity in the water had equilibrated. Water quality parameters of pH, temperature, and conductivity were measured throughout the purging process using a Horiba U-22 Water Quality Monitor; while turbidity measurements were recorded during the purging process using a LaMotte Turbidity Meter. These instruments provided real-time measurements of temperature, pH, specific conductivity and turbidity of the purge water as it was removed from the wells. Monitoring well construction diagrams are included in **Appendix A**.

#### 4.0 2013 SEMI-ANNUAL GROUNDWATER MONITORING ACTIVITIES

Peachtree completed semi-annual groundwater monitoring activities at the VRP Property in March 2013. This data has been utilized for the preparation of figures and tables depicting the delineation of COC-impacted groundwater. Water level gauging and groundwater sampling activities were conducted on March 7, 2013. The monitoring well locations are depicted on **Figure 2B**.

Groundwater monitoring wells were sampled to evaluate the extent and concentration of the existing groundwater plume, as well as groundwater MNA parameters, such that corrective measures could be designed to comply with applicable RRS. Peachtree collected groundwater samples from six (6) of the seven (7) existing shallow water-bearing zone monitoring wells and each of the five (5) horizontal delineation monitoring wells installed in December 2012. Monitoring well MW-2A was not sampled as it was not accessible during the March 2013 sampling event. Monitoring wells were analyzed for VOCs via EPA Method 8260b.

Measurements of MNA parameters have been conducted in monitoring wells MW-2A, MW-3A, MW-4A, and MW-6 such that a natural attenuation based corrective action approach could be evaluated. In addition, Peachtree plans to collect MNA parameters and perform aquifer slug testing in the newly installed delineation wells MW-10, MW-11, and MW-12 for utilization in future fate and transport modeling activities.

#### 4.1 GROUNDWATER ELEVATION

Water level information from the March 2013 sampling event is summarized in **Table 1**. The water level data was used to determine the volume of water to be purged from each well prior to sample collection, as well as the static groundwater elevation in each well. Prior to well purging and sampling, the depth to water in each monitoring well was measured from the top of the casing using an electronic water level indicator. Each well measurement was recorded to one-hundredth (1/100) of a foot. The well data was recorded on field logs which are included in the Monitoring Well Purging & Sampling Information Sheets of **Appendix B**. The groundwater elevation of each monitoring well was utilized to prepare a potentiometric map for the March 2013 sampling event, included as **Figure 7**.

The resulting groundwater flow direction to the southeast is consistent with historic observations; however, perched/standing water observed during the last two semiannual monitoring events (September 2012 and March 2013) monitoring event in the vicinity of down-gradient monitoring wells MW-7A, MW-8A, and MW-9A appears to have created a mounded groundwater table; however, Peachtree still considers MW-9A a Point of Demonstration (POD) well as historic observations have shown it to be the most downgradient well on the VRP Property. During past historical groundwater monitoring events, this particular area was observed to be dry. Recently placed soil stockpiles along the southern portion of the 305 Athena Drive property, have restricted stormwater flow from the northern portion of the property. As a result, areas of standing water were observed extending approximately 200 feet between MW-9A to MW-7A. Hull's representatives are in discussions with the current property owner regarding the current stormwater containment issue, and its potential effect on the VRP Property's schedule for completion of the program. Additionally, Peachtree plans to utilize one of the recently installed horizontal delineation wells (MW-10) as an additional POD well.

Peachtree was unable to survey the top of casing at each of the newly installed monitoring wells (MW-10 through MW-14) due to access issues encountered following the March 2013 semiannual sampling event. Once these issues are resolved, Peachtree anticipates contracting with a professional survey firm to complete survey of all VRP property monitoring well locations, adjacent ground surface, and top of casing elevations.

## **4.2 WELL PURGING**

Well purging and sampling activities were conducted in accordance with the U.S. Environmental Protection Agency (EPA) Science and Ecosystem Support Division (SESD) Operating Procedure (OP) for Groundwater Sampling (SESDPROC-301-R3, March 2013; Section 3.2.1). Prior to sample collection, each of the wells was purged of a minimum of three (3) well volumes to remove stagnant water from the screened portion of the well and to allow for the collection of groundwater samples that are representative of the surrounding formation. In the event that a monitoring well was purged dry, a sample was collected subsequent to recharge. Individual monitoring well purge volumes were calculated as follows:

Depth of well (ft) - Static water level (ft) = Column of water (ft)

Column of water (linear ft) x 0.17 gallons x 3 = Gallons of water to purge

In instances where a sufficient quantity of water was present, purging was accomplished using a clean stainless steel adjustable flow rate submersible pump equipped with one-time use teflon-coated disposable tubing. A minimum of three well volumes of water was removed and a sample was taken after the pH, temperature and specific conductivity had equilibrated in each well. In instances where an insufficient quantity of water was present to allow the use of the submersible pump, a one-time use disposable teflon bailer equipped with teflon-coated wire lead was used to purge/collect a representative sample. During the well purging process, discrete samples were collected at predetermined intervals and analyzed for field parameters which included temperature, pH, specific conductance, turbidity, dissolved oxygen (DO), total dissolved solids (TDS), and oxidation-reduction potential (ORP). The results of these measurements are presented on the Field Water Quality Sampling Forms in **Appendix B**. The wells were purged of a minimum of three well volumes, until the field parameters stabilized, or until the wells were purged dry, whichever occurred first.

#### **4.3 SAMPLING PROCEDURES**

Groundwater sampling was conducted in accordance with procedures outlined in SESD Operating Procedures for Groundwater Sampling (SESDPROC-301-R3, March 2013; Section 4.3.1.3). Groundwater samples were collected from the submersible pump following well purging and appropriate recharge. Copies of the data recorded during purging activities are included in the Field Water Quality Sampling Forms shown in **Appendix B**.

Required sample volumes, types of containers, sample preservatives, and holding times followed guidelines presented in SESD guidelines, March 2013. Sample containers were labeled and placed in iced containers for storage to maintain a temperature of 4° C. Chain-of-Custody procedures were used to record and document sample times and changes of possession.

#### **4.4 DECONTAMINATION PROCEDURES**

All downhole and/or re-usable field monitoring and/or sampling equipment was properly decontaminated between monitoring/sampling locations in accordance with the SESD Operating Procedures for Field Equipment and Decontamination (SESDPROC-205-R2, December 2011; Sections 3.3, 3.5, and 3.6).

## 4.5 ANALYTICAL PROCEDURES

Samples collected from monitoring wells were analyzed for volatile organic constituents (VOCs) via EPA Method 8260. After collection, all sample coolers were delivered to Analytical Environmental Services, Inc. (AES) located in Atlanta, Georgia under proper Chain-of-Custody protocol for laboratory analyses for Constituents of Concern.

## 4.6 RESULTS

Fourteen (14) COCs were reported at concentrations in excess of the laboratory method detection limits (MDL) during the September 2012 sampling event. Peachtree was unable to access MW-2A during the March 2013 sampling event. Eight (8) COCs were reported at concentrations in excess of the laboratory MDL at the wells sampled. Of the nine (9) COCs detected in March 2013, Tetrachloroethene and Chloroform were not detected above the laboratory MDL in prior VRP semiannual sampling events. The COCs detected in March 2013 (and monitoring well where detected) are summarized below:

- ▶ 1,1-Dichloroethene (MW-11 and MW-12)
- ▶ Benzene (MW-3A, MW-10, and MW-11)
- ▶ Chloroform (MW-12)
- ▶ cis-1,2-Dichloroethene (MW-11)
- ▶ MTBE (MW-14)
- ▶ Tetrachloroethene (MW-11)
- ▶ Trichloroethene (MW-3A and MW-11)
- ▶ Total Xylene (MW-10)

### Horizontal Extent of Impacted Groundwater

The COCs detected in groundwater during the March 2013 sampling event are depicted on **Figure 8**. The principal COCs at the VRP Property are TCE (and its associated breakdown products), BTEX, and various petroleum-related COCs. The March 2013 isocontour map for TCE (and its associated breakdown products) is included as **Figure 9**. The March 2013 isocontour map for BTEX, is included as **Figure 10**. As PCE was detected in MW-11 during the

March 2013 sampling event, an isocontour map for PCE is included as **Figure 11**. Summary of the historic groundwater analytical data and MNA parameters are provided in **Tables 2** and **3**, respectively. Historic analytical results are presented in trend graphs included as **Appendix C**. Copies of the March 2013 analytical testing results and accompanying chain-of-custody documentation are provided in **Appendix D**.

Based on the March 2013 groundwater analytical results, additional on-site horizontal delineation wells will be required north of MW-10, east and north of MW-11, and northeast of MW-12. The proposed on-site horizontal delineation well locations are illustrated on **Figure 12**.

The on-site horizontal delineation wells are scheduled to be installed in mid-2013 or prior to the initiation of the September 2013 sampling event. The results of the on-site investigation will be included with the submittal of the October 30, 2013 semiannual progress report. If applicable, off-site horizontal delineation wells will be installed in late-2013/early-2014 prior to the initiation of the March 2014 sampling event. The results of the off-site investigation will be included with the submittal of the April 30, 2014 semiannual progress report.

#### Vertical Extent of Impacted Groundwater

The vertical extent of impacted groundwater has yet to be defined at the VRP Property. Based on the September 10, 2012 meeting with GEPD, a deep well location was agreed upon to the east and down-gradient of MW-2A. Discussions and data associated with vertical extent delineation activities will be provided in subsequent semiannual groundwater monitoring reports and the final VRP CSR.

#### **4.7 GROUNDWATER DELINEATION STANDARDS**

Nineteen (19) HSRA-regulated substances have been historically detected in groundwater samples collected at the VRP Property. The resulting groundwater delineation standards are provided below:

**TABLE 4.7 – TYPE 1 GROUNDWATER RRS SUMMARY**

REGULATED CONSTITUENT	HIGHEST DETECTED CONCENTRATION (MARCH 2013)	TYPE 1 RRS (UG/L)
1,1-Dichloroethane	<5	4,000
<b>1,1-Dichloroethene</b>	<b>30 (MW-12)</b>	7
1,1,1-Trichloroethane	<5	200
1,1,2-Trichloroethane	<5	5
2-Butanone	<5	2,000
4-Methyl-2-Pentanone	<5	2,000
Acetone	<5	4,000
<b>Benzene</b>	<b>16 (MW-11)</b>	5
Carbon Disulfide	<5	4,000
Chloroform	28 (MW-12)	80
cis-1,2-Dichloroethene	12 (MW-11)	70
Ethylbenzene	<5	700
Toluene	<5	1,000
<b>Tetrachloroethene (PCE)</b>	<b>10 (MW-11)</b>	5
<b>Trichloroethene (TCE)</b>	<b>1,300 (MW-11)</b>	5
Trichlorofluoromethane	<5	2,000
Vinyl Chloride	<5	2
Xylenes (o,m,p)	34 (MW-10)	10,000

Notes: MW-2A was not sampled during the March 2013 semiannual event. It is anticipated more COCs are present at the VRP property, based on prior analytical results.

**Bolded** constituents exceed the Type 1 RRS.

As indicated above, the following HSRA-regulated substances were detected above applicable groundwater RRS during the March 2013 sampling event:

- 1,1-Dichloroethene, Benzene, Tetrachloroethene, and Trichloroethene.

No HSRA-regulated substances were detected above laboratory reporting limits at the POD well (MW-9A).

#### **4.8 PROPOSED VRP INVESTIGATION ACTIVITIES**

As previously stated, additional on-site horizontal delineation wells are scheduled to be installed at the VRP Property prior to the initiation of the September 2013 semiannual sampling event. Measurements of MNA parameters have been conducted in monitoring wells MW-2A, MW-3A, MW-4A, and MW-6 such that a natural attenuation based corrective action approach could be evaluated. In addition, Peachtree plans to collect MNA parameters and perform aquifer slug testing in the newly installed delineation wells MW-10, MW-11, and MW-12 for utilization in future fate and transport modeling activities. Peachtree will also sample MW-2A and perform a survey of the newly installed monitoring wells once access is granted. The results of this investigation and an updated CSM will be provided in the next (3<sup>rd</sup>) VRP Semiannual Progress Report, due October 30, 2013.

If applicable, off-site horizontal delineation activities will be performed in accordance with the VRP milestone schedule, prior to the Fourth (4<sup>th</sup>) Semiannual Progress Report, due April 30, 2014. Vertical delineation activities will be performed in accordance with the VRP milestone schedule, prior to the Fifth (5<sup>th</sup>) Semiannual Progress Report, due October 30, 2014.

## 5.0 PRELIMINARY REMEDIATION PLAN

Based on the March 2013 analytical data, 1,1-Dichloroethene, Benzene, Tetrachloroethene, and Trichloroethene were detected at the VRP Property in excess of RRS. As indicated in the 1<sup>st</sup> Semiannual Progress Report, the Applicant anticipates utilizing monitored natural attenuation as the remedial approach. Peachtree also anticipates installing the additional on-site delineation wells prior to the October 30, 2013 Semiannual Report. The proposed locations of the on-site horizontal delineation monitoring wells are depicted on **Figure 12**.

The resulting groundwater flow direction to the southeast is consistent with historic observations; however, perched/standing water observed during the last two semiannual monitoring events (September 2012 and March 2013) in the vicinity of down-gradient monitoring wells MW-7A, MW-8A, and MW-9A appears to have created a mounded groundwater table; Peachtree still considers MW-9A a POD well based upon historic observations. Hull's representatives are currently in discussions with the current property owner regarding the stormwater containment issue, and its potential effect on the VRP Property's schedule for completion of the program. Additionally, Peachtree may also utilize one of the recently installed horizontal delineation wells (MW-10) as an additional POD well.

A schedule for completion of the horizontal and vertical delineation activities and updating of the CSM for the VRP Property is included as **Appendix E**.



TABLES

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**VRP SEMIANNUAL REPORT  
FORMER LOEF FACILITY  
ATHENS, CLARKE COUNTY, GEORGIA**

**TABLE 1  
SUMMARY OF GROUNDWATER ELEVATION MEASUREMENTS**

Well Number	Date Measured	TOC Elevation	Screen Interval (BGS)	Depth to Water (BTOC)	Water Table Elevation
MW-2A*	6/17/2009	710.20	23.15 to 33.15 FT	22.87	687.33
	6/24/2010			21.00	689.20
	2/24/2011			18.05	692.15
	8/4/2011*	706.70	20.0 to 30.0 FT	18.00	688.70
	2/24/2012			19.13	687.57
	9/20/2012			18.89	687.81
	3/7/2013			NM	NM
MW-3A	6/17/2009	712.23	20.0 to 30.0 FT	26.79	685.44
	6/24/2010			24.82	687.41
	2/24/2011			25.15	687.08
	8/4/2011			26.15	686.08
	2/24/2012			26.83	685.40
	9/20/2012			26.76	685.47
	3/7/2013			25.72	686.51
MW-4A	6/17/2009	709.18	19.5 to 29.5 FT	24.76	684.42
	6/24/2010			23.21	685.97
	2/24/2011			22.94	686.24
	8/4/2011			25.49	683.69
	2/24/2012			24.77	684.41
	9/20/2012			24.84	684.34
	3/7/2013			22.96	686.22
MW-6	6/17/2009	720.15	20.0 to 30.0 FT	23.00	697.15
	6/24/2010			20.42	699.73
	2/24/2011			20.62	699.53
	8/4/2011			20.50	699.65
	2/24/2012			22.90	697.25
	9/20/2012			23.81	696.34
	3/7/2013			22.38	697.77
MW-7A	6/17/2009	696.08	9.5 to 19.5 FT	15.47	680.61
	6/24/2010			12.46	683.62
	2/24/2011			12.81	683.27
	8/4/2011			18.05	678.03
	2/24/2012			14.51	681.57
	9/20/2012			15.52	680.56
	3/7/2013			11.97	684.11
MW-8A	6/17/2009	695.23	9.5 to 19.5 FT	14.02	681.21
	6/24/2010			11.3	683.93
	2/24/2011			11.54	683.69
	8/4/2011			16.87	678.36
	2/24/2012			12.93	682.30
	9/20/2012			13.89	681.34
	3/7/2013			10.91	684.32
MW-9A	6/17/2009	697.13	10.0 to 20.0 FT	16.51	680.62
	6/24/2010			12.79	684.34
	2/24/2010			12.65	684.48
	8/4/2011			19.80	677.33
	2/24/2012			11.21	685.92
	9/20/2012			10.46	686.67
	3/7/2013			10.21	686.92
MW-10	3/7/2013	NS	25.0 to 35.0 FT	20.86	NS
MW-11	3/7/2013	NS	25.0 to 35.0 FT	25.37	NS
MW-12	3/7/2013	NS	25.0 to 35.0 FT	15.81	NS
MW-13	3/7/2013	NS	25.0 to 35.0 FT	17.29	NS
MW-14	3/7/2013	NS	25.0 to 35.0 FT	18.78	NS

**Notes:**

TOC = Top of Casing

BTOC = Below Top of Casing

BGS = Below Ground Surface

\* - MW-2A was reinstalled and surveyed on March 18, 2011

NM = MW-2A was inaccessible in March 2013 therefore a depth to groundwater was not measured.

NS = MW-10 thru MW-14 were installed December 19 - 21, 2013 and have not been surveyed.

VRP SEMI-ANNUAL REPORT  
FORMER LOEF FACILITY (HULL)  
ATHENS, CLARKE COUNTY, GEORGIA  
HSI#10376

TABLE 2

Peachtree Well/Sample ID	Date	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	4-Methyl-2-Pentanone	2-Butanone	2-Hexanone	Acetone	Benzene	Carbon Disulfide	Chloroform	Toluene	Ethylbenzene	Xylenes (o)	Xylenes (m,p)	MTBE**	Trichloroethene	Tetrachloroethene	Trichlorofluoromethane	Cis-1,2-Dichloroethene	Vinyl Chloride
		ANALYTICAL RESULTS (ug/L)																				
Permanent Monitoring Wells																						
MW-1*	6/23/2000	<1	<1	1.5	<1	-	-	-	-	1.5	-	-	<1	<1	<3	-	<1	8.2	<1	-	<1	<3
	6/23/2000	<10	<10	12	26	-	-	-	-	<10	-	-	<10	<10	<30	-	42	570	<5	-	100	31
MW-2A	6/26/2003	9.7	<5	30	43	-	-	-	-	11	-	-	<5	<5	11	-	150	1800	<5	-	250	52
	8/12/2003	32	<5	110	78	-	-	-	-	18	-	-	8.9	<5	17	-	250	6500	<5	-	1300	170
	9/19/2003	28	<5	70	65	-	-	-	-	17	-	-	9.3	<5	18	-	200	4700	<5	-	700	98
	10/22/2003	28	<5	90	80	-	-	-	-	36	-	-	13	6.4	26	-	250	3000	<5	-	590	140
	11/18/2003	21	<5	71	58	-	-	-	-	18	-	-	9.1	<5	17	-	250	8100	<5	-	1000	110
	12/24/2003	34	<5	91	70	-	-	-	-	16	-	-	9.4	<5	22	-	280	9600	<5	-	1500	130
	1/23/2004	<50	<5	55	60	-	-	-	-	<50	-	-	<50	<5	<50	-	370	4000	<5	-	560	130
	3/29/2004	16	<5	54	46	-	-	-	-	22	-	-	6.9	<5	14	-	250	4000	<5	-	790	83
	5/7/2004	11	<5	34	42	-	-	-	-	20	-	-	<5	5.8	14	-	210	2500	<5	-	420	54
	7/15/2004	11	<5	38	32	-	-	-	-	25	-	-	7.1	8.5	18	-	280	1900	<5	-	420	67
	9/30/2004	<5	<5	10	23	-	-	-	-	21	-	-	130	46	58	-	190	430	<5	-	130	32
	5/9/2006	9.4	<5	54	38	-	-	-	-	13	-	-	<5	<5	10	-	77	2600	<5	-	720	51
	6/17/2009	<5	<5	<5	<5	-	-	-	-	14	-	-	<5	<5	<10	-	<5	70	<5	-	31	7
	6/24/2010	<5	<5	23	17	-	-	-	-	12	-	-	<5	<5	1.9	-	15	710	<5	-	300	54
	2/24/2011	<5	<5	19	14	11	-	-	90	7.2	-	-	<5	<5	<5	-	20	730	<5	120	370	33
	3/18/2011***	<5	<5	6	10	11	-	-	<50	7.8	-	7	<5	<5	<5	-	9.4	210	<5	<5	120	19
	8/4/2011	<5	<5	21	19	90	210	12	670	13	9	<5	13	<5	7.6	7.8	43	810	<5	<5	390	61
	8/4/2011 (DUP)	<5	<5	21	18	79	150	10	630	11	7.2	<5	11	<5	6.8	7.1	38	680	<5	<5	310	55
2/24/2012	<5	<5	<5	7.7	160	210	19	700	11	<5	<5	8.6	<5	7.3	9.8	32	69	<5	<5	100	34	
9/20/2012	<5	<5	9.1	9.4	96	150	22	530	11	8.3	<5	6.9	<5	5.9	8.3	34	140	<5	<5	210	69	
3/7/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3A	6/23/2000	<1	<5	<1	<1	-	-	-	-	36	-	-	<1	<1	<3	-	<1	30	<5	-	<1	<3
	5/7/2004	<5	<5	<5	<5	-	-	-	-	<5	-	-	<5	<5	<5	-	<5	11	<5	-	<5	<2
	5/9/2006	<5	<5	<5	<5	-	-	-	-	7.4	-	-	<5	<5	<5	-	<5	22	<5	-	<5	<2
	6/17/2009	<5	<5	<5	<5	-	-	-	-	13	-	-	<5	<5	<5	-	<5	15	<5	-	<5	<2
	6/24/2010	<5	<5	<5	<5	-	-	-	-	16	-	-	<5	<5	<5	-	<5	17	<5	-	<5	<2
	2/24/2011	<5	<5	<5	<5	<10	<50	<10	<50	14	<5	<5	<5	<5	<5	<5	<5	13	<5	<5	<5	<2
	8/4/2011	<5	<5	<5	<5	<10	<50	<10	<50	13	<5	<5	<5	<5	<5	<5	<5	11	<5	<5	<5	<2
	2/24/2012	<5	<5	<5	<5	<10	<50	<10	<50	10	<5	<5	<5	<5	<5	<5	<5	8	<5	<5	<5	<2
9/20/2012	<5	<5	<5	<5	<10	<50	<10	<50	14	<5	<5	<5	<5	<5	<5	<5	9.8	<5	<5	<5	<2	
3/7/2013	<5	<5	<5	<5	<10	<50	<10	<50	14	<5	<5	<5	<5	<5	<5	<5	9.6	<5	<5	<5	<2	
MW-4A	6/23/2000	<1	<5	<1	<1	-	-	-	-	12	-	-	<1	<1	<1	-	<1	<1	2.7	-	<1	<1
	5/7/2004	<5	<5	<5	<5	-	-	-	-	27	-	-	<5	<5	<5	-	<5	29	<5	-	<5	<5
	5/9/2006	<5	<5	<5	<5	-	-	-	-	37	-	-	<5	<5	<5	-	<5	51	<5	-	<5	<2
	6/17/2009	<5	<5	<5	<5	-	-	-	-	<5	-	-	<5	<5	<5	-	<5	7.2	<5	-	<5	<2
	6/24/2010	<5	<5	<5	<5	-	-	-	-	4.9	-	-	<5	<5	<5	-	<5	6.1	<5	-	<5	<2
	2/24/2011	<5	<5	<5	<5	<10	<50	<10	<50	7	<5	<5	<5	<5	<5	<5	<5	13	<5	<5	<5	<2
	8/4/2011	<5	<5	<5	<5	<10	<50	<10	<50	29	<5	<5	<5	<5	<5	<5	<5	51	<5	<5	9.5	<2
2/24/2012	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<2	
9/20/2012	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	<5	<5	6.3	<5	<5	<5	<2	
3/7/2013	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<2	
MW-5	6/23/2000	1.5	<1	<1	<1	-	-	-	-	<1	-	-	<1	<1	<1	-	<1	<1	<1	-	<1	<1
MW-6	11/5/2000	NT	<5	<1	NT	-	-	-	-	<1	-	-	NT	NT	NT	-	NT	<1	<1	-	<1	NT
	6/17/2009	<5	<5	<5	<5	-	-	-	-	<5	-	-	<5	<5	<5	-	<5	<5	<5	-	<5	<2
	6/24/2010	<5	<5	<5	<5	-	-	-	-	<5	-	-	<5	<5	<5	-	<5	<5	<5	-	<5	<2
	2/24/2011	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<2
	8/4/2011	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<2
	2/24/2012	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<2
9/20/2012	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<2	
3/7/2013	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<2	

VRP SEMIANNUAL REPORT  
FORMER LOEF FACILITY (HULL)  
ATHENS, CLARKE COUNTY, GEORGIA  
HSI#10376

TABLE 2

Peachtree Well/Sample ID	Date	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	4-Methyl-2-Pentanone	2-Butanone	2-Hexanone	Acetone	Benzene	Carbon Disulfide	Chloroform	Toluene	Ethylbenzene	Xylenes (o)	Xylenes (m,p)	MTBE**	Trichloroethene	Tetrachloroethene	Trichlorofluoromethane	Cis-1,2-Dichloroethene	Vinyl Chloride
		ANALYTICAL RESULTS (ug/L)																				
MW-7A	11/5/2000	NT	NT	<1	NT	-	-	-	-	<1	-	-	NT	NT	NT	-	NT	5.4	<1	-	2.1	NT
	5/7/2004	<5	<5	<5	<5	-	-	-	-	<5	-	-	<5	<5	<5	-	<5	<5	<5	-	<5	<5
	5/9/2006	<5	<5	<5	<5	-	-	-	-	<5	-	-	<5	<5	<5	-	<5	<5	<5	-	<5	<5
	6/17/2009	<5	<5	<5	<5	-	-	-	-	<5	-	-	<5	<5	<5	-	<5	<5	<5	-	<5	<5
	6/24/2010	<5	<5	<5	<5	-	-	-	-	<5	-	-	<5	<5	<5	-	<5	<5	<5	-	<5	<5
	2/24/2011	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	-	<5	<5	<5	<5	<5	<5
	8/4/2011	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	-	<5	<5	<5	<5	<5	<5
	2/24/2012	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	-	<5	<5	<5	<5	<5	<5
	9/20/2012	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	-	<5	<5	<5	<5	<5	<5
3/8/2013	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	-	<5	<5	<5	<5	<5	<5	
MW-8A	11/5/2000	NT	NT	<1	NT	-	-	-	-	<1	-	-	NT	NT	NT	-	NT	15	<1	-	<1	NT
	5/7/2004	<5	<5	<5	<5	-	-	-	-	<5	-	-	<5	<5	<5	-	<5	<5	<5	-	<5	<5
	5/9/2006	<5	<5	<5	<5	-	-	-	-	<5	-	-	<5	<5	<5	-	<5	<5	<5	-	<5	<5
	6/17/2009	<5	<5	<5	<5	-	-	-	-	<5	-	-	<5	<5	<5	-	<5	<5	<5	-	<5	<5
	6/24/2010	<5	<5	<5	<5	-	-	-	-	<5	-	-	<5	<5	<5	-	<5	<5	<5	-	<5	<5
	2/24/2011	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	-	<5	<5	<5	<5	<5	<5
	8/4/2011	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	-	<5	<5	<5	<5	<5	<5
	2/24/2012	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	-	<5	<5	<5	<5	<5	<5
	9/20/2012	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	-	<5	<5	<5	<5	<5	<5
3/8/2013	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	-	<5	<5	<5	<5	<5	<5	
MW-9A	5/7/2004	<5	<5	<5	<5	-	-	-	-	<5	-	-	<5	<5	<5	-	<5	<5	<5	-	<5	<5
	5/9/2006	<5	<5	<5	<5	-	-	-	-	<5	-	-	<5	<5	<5	-	<5	<5	<5	-	<5	<5
	6/17/2009	<5	<5	<5	<5	-	-	-	-	<5	-	-	<5	<5	<5	-	<5	<5	<5	-	<5	<5
	6/24/2010	<5	<5	<5	<5	-	-	-	-	<5	-	-	<5	<5	<5	-	<5	<5	<5	-	<5	<5
	2/24/2011	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	-	<5	<5	<5	<5	<5	<5
	8/4/2011	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	-	<5	<5	<5	<5	<5	<5
	2/24/2012	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	-	<5	<5	<5	<5	<5	<5
9/20/2012	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	-	<5	<5	<5	<5	<5	<5	
3/8/2013	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	-	<5	<5	<5	<5	<5	<5	
MW-10	3/7/2013	<5	<5	<5	<5	<10	<50	<10	<50	5.3	<5	<5	<5	<5	<5	12	22	<5	<5	<5	<5	<5
MW-11	3/8/2013	<5	<5	<5	8.5	<10	<50	<10	<50	16	<5	<5	<5	<5	<5	<5	<5	1,300	10	<5	12	<5
MW-12	3/7/2013	<5	<5	<5	30	<10	<50	<10	<50	<5	<5	28	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW-13	3/7/2013	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW-14	3/7/2013	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	<5	5.6	<5	<5	<5	<5	<5
Temporary Monitoring Well Data																						
TW-1	5/4/2006	<5	<5	<5	<5	-	-	-	-	38	-	-	<5	<5	<5	-	<5	10	<5	-	<5	<5
TW-2	5/4/2006	<5	<5	<5	<5	-	-	-	-	100	-	-	<5	<5	<5	-	<5	15	6.6	-	<5	<5
TW-3	5/4/2006	<5	<5	<5	29	-	-	-	-	<5	-	-	<5	<5	<5	-	<5	8.2	<5	-	<5	<5
TW-4	5/4/2006	<5	5.9	<5	150	-	-	-	-	<5	-	-	<5	<5	<5	-	<5	<5	<5	-	<5	<5
TW-5	5/4/2006	<5	<5	<5	<5	-	-	-	-	24	-	-	<5	<5	<5	-	<5	<5	<5	-	<5	<5
Equipment Blank	2/24/2011	<5	<5	<5	<5	<10	<50	<10	59	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trip Blank	8/5/2011	<5	<5	<5	<5	<10	<50	<10	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

NOTES:  
\*250\* - Numbers in bold exceed the applicable Risk Reduction Standard criteria.  
- Casing for MW-1 is damaged. Sampling access is not available.  
\*\* - Currently, there is no Type 1/3 Groundwater Risk Reduction Standard.  
\*\*\* - MW-2A overdrilled and replaced 3/18/11.  
MW-10 thru MW-14 were installed December 19 - 21, 2013.  
NT - Not Tested.  
NS - MW-2A was inaccessible in March 2013 therefore the well was not sampled.

**VRP SEMIANNUAL REPORT  
FORMER LOEF FACILITY (HULL)  
ATHENS, CLARKE COUNTY, GEORGIA  
HSI#10376**

**TABLE 3  
SUMMARY OF MONITORED NATURAL ATTENUATION PARAMETER RESULTS**

Well/Sample ID	Date	pH	Temperature (°C)	Conductivity (uS/cm)	Total Dissolved Solids (g/L)	Dissolved Oxygen	Oxidation-Reduction Potential (mV)	Ethane	Ethene	Methane	Total Organic Carbon	Iron II	Chloride	Nitrate	Sulfate	Sulfide	
		FIELD-MEASURED PARAMETERS							LABORATORY ANALYTICAL RESULTS (mg/L)								
MW-2A	6/24/2010	4.65	18.10	0.581	0.037	10.2	450	0.16	<0.007	3.2	8.2	7.25	NM	0.49	<1	<2	
	8/4/2011	5.45	20.78	0.295	NM	0.54	10	0.78	<0.007	3.1	60.8	47	NM	0.25	<1	<2	
	2/24/2012	6.05	19.54	0.903	NM	0.00	-67	NM	NM	NM	NM	NM	NM	NM	NM	NM	
	9/20/2012	5.25	22.42	0.910	NM	2.05	-9	NM	NM	NM	NM	NM	NM	NM	NM	NM	
	3/8/2013	5.25	22.42	0.910	NM	2.05	-9	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-3A	6/24/2010	4.63	19.20	0.852	0.054	9.64	398	0.36	<0.007	4.2	2.34	<0.1	NM	1.8	2	<2	
	8/4/2011	4.40	20.94	0.570	NM	1.34	301	0.12	<0.007	1.7	1.42	<0.1	NM	1.7	<1	<2	
	2/24/2012	5.13	20.01	0.060	NM	1.91	327	NM	NM	NM	NM	NM	NM	NM	NM	NM	
	9/20/2012	4.21	22.44	0.067	NM	1.57	349	NM	NM	NM	NM	NM	NM	NM	NM	NM	
	3/8/2013	4.21	22.44	0.067	NM	1.57	349	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-4A	6/24/2010	4.66	18.80	0.164	0.11	9.54	414	0.029	<0.007	0.34	2.98	<0.1	NM	0.88	1.9	<2	
	8/4/2011	4.62	21.76	0.093	NM	2.1	330	0.026	<0.007	0.44	<5	<.1	NM	0.84	1.7	<2	
	2/24/2012	4.77	19.13	0.117	NM	0.00	377	NM	NM	NM	NM	NM	NM	NM	NM	NM	
	9/20/2012	4.16	22.98	0.134	NM	2.28	425	NM	NM	NM	NM	NM	NM	NM	NM	NM	
	3/7/2013	4.16	22.98	0.134	NM	2.28	425	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-6*	6/24/2010	4.90	19.70	0.044	0.03	10.5	443	<0.009	<0.007	<0.004	1.79	<0.1	NM	0.44	<1	<2	
	8/4/2011	4.25	19.70	0.030	NM	8.51	366	<0.009	<0.007	<0.004	<1	<0.1	NM	0.43	<1	<2	
	2/24/2012	4.77	20.37	0.030	NM	3.75	354	NM	NM	NM	NM	NM	NM	NM	NM	NM	
	9/20/2012	4.26	22.69	0.051	NM	4.72	681	NM	NM	NM	NM	NM	NM	NM	NM	NM	
	3/7/2013	4.87	18.87	0.030	NM	5.51	359	<0.009	<0.007	<0.004	<1	NM	5.4	0.42	1.2	<2	

**NOTES:**

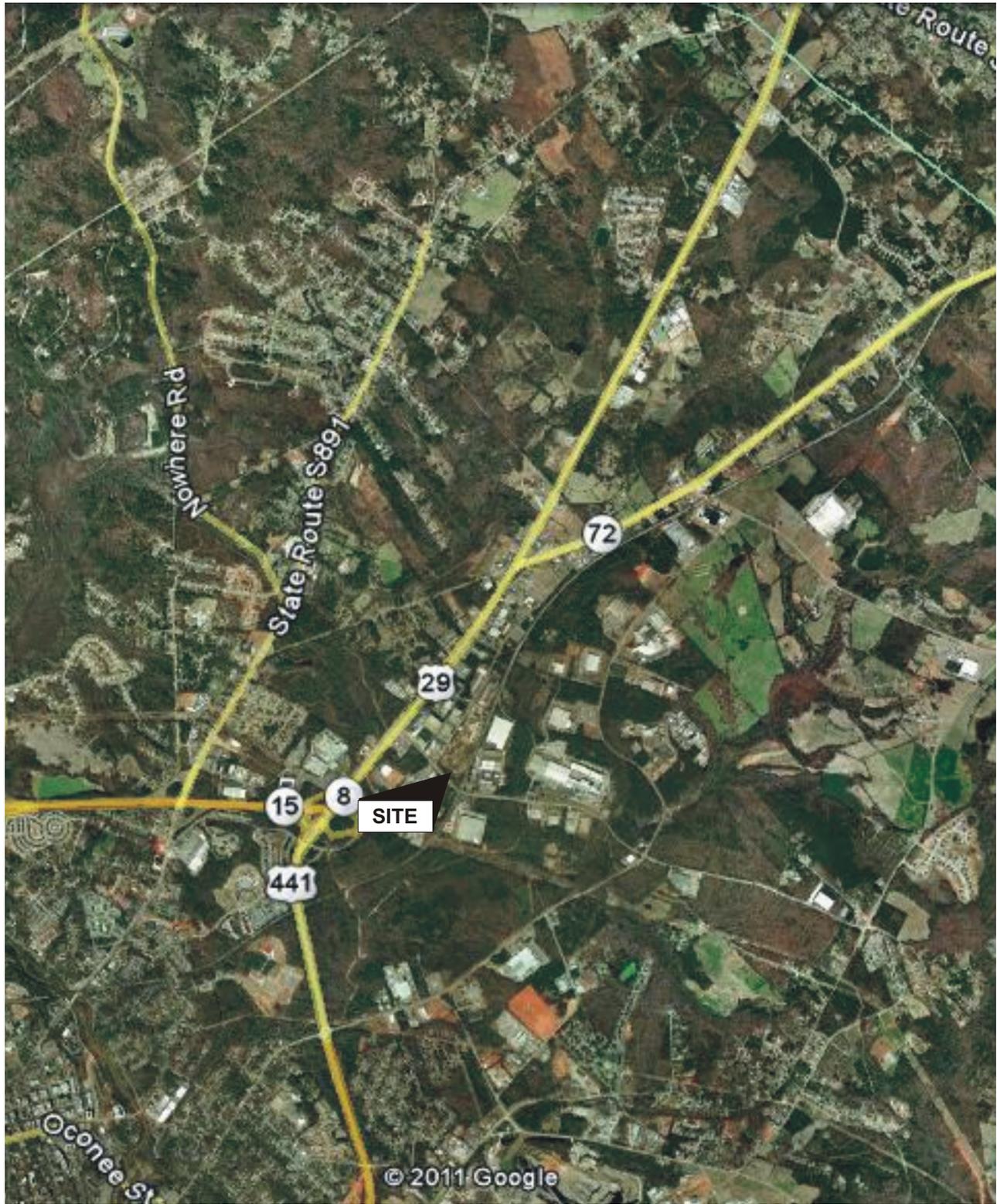
NM - Parameter was not measured.

\* - Background Well



FIGURES

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FORMER LOEF FACILITY  
ATHENS, CLARKE COUNTY, GEORGIA  
HSI#10376

**FIGURE 1  
SITE LOCATION MAP**

VRP - 2ND SEMIANNUAL PROGRESS REPORT



Peachtree  
Environmental



QUADRANGLE  
LOCATION



0 OLD HULL ROAD -  
PARCEL ID: 221 001 (1.63 ACRES)

590 OLD HULL ROAD -  
PARCEL ID: 221 002 C (15 ACRES)

305 ATHENA DRIVE -  
PARCEL ID: 162 037 (4.71 ACRES)

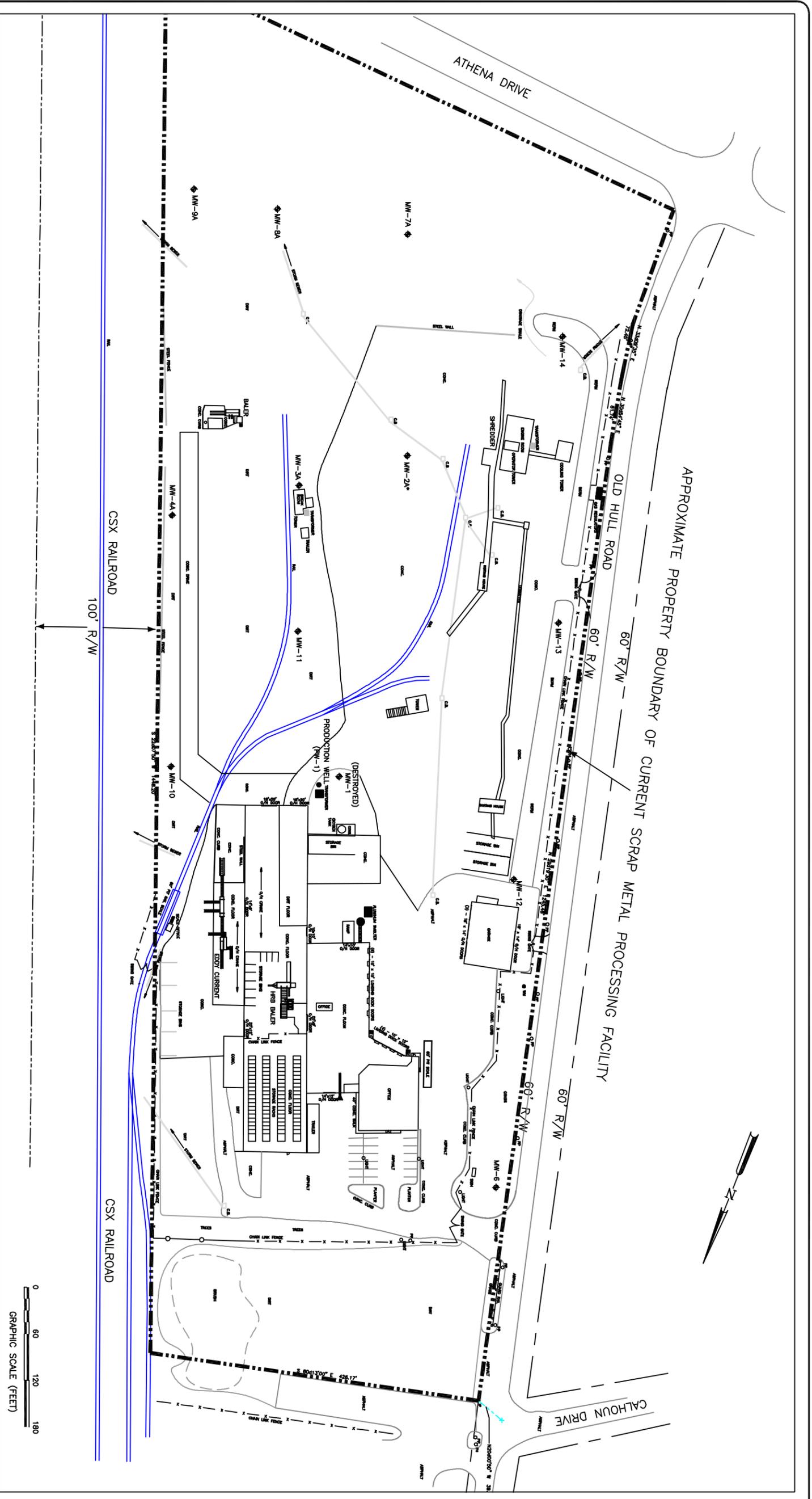
0 100 200 300  
APPROXIMATE SCALE IN FEET

NOTES:  - FENCE LINE / APPROXIMATE PROPERTY BOUNDARY

FORMER LOEF FACILITY  
ATHENS, CLARKE COUNTY, GEORGIA

**FIGURE 2A**  
**SITE LAYOUT MAP DEPICTING PARCEL IDENTIFICATIONS**





**LEGEND**

◆ GROUNDWATER MONITORING WELL

**NOTES**

\* MW-2A COULD NOT BE ACCESSED DURING PEACHTREE'S MARCH 7-8, 2013 SAMPLING EVENT. DATA DEPICTED WAS COLLECTED IN SEPTEMBER 2012.  
 MW-1 WAS DESTROYED AND IS NO LONGER ON-SITE.  
 MW-10, MW-11, MW-12, MW-13, AND MW-14 WERE INSTALLED ON DECEMBER 19-21, 2012.

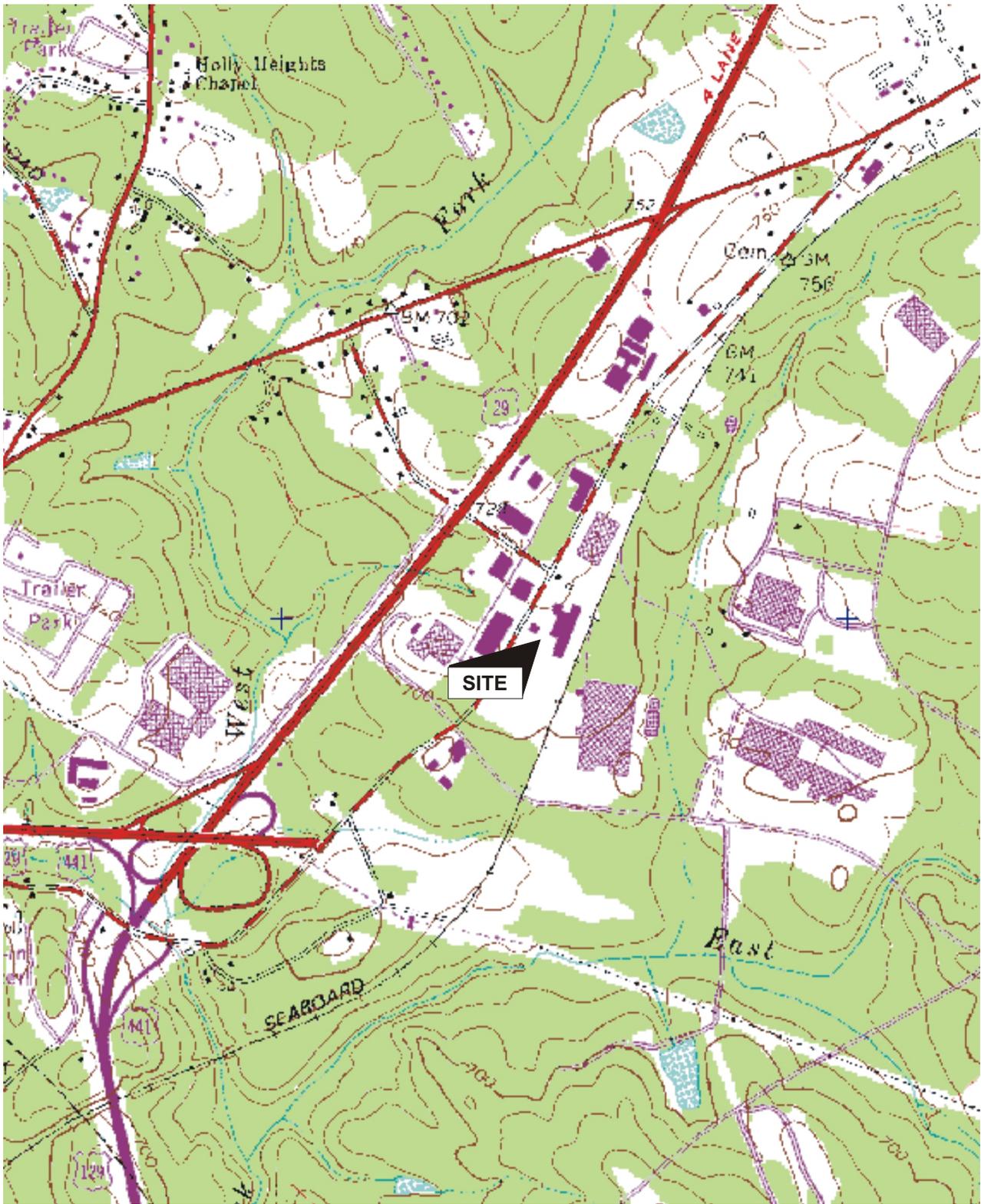
FIGURE NO.  
**2B**  
 FORMER LOEF  
 2318

**FORMER LOEF FACILITY  
 ATHENS, GEORGIA**

SITE LAYOUT AND MONITORING WELL  
 LOCATION MAP



REV	DATE	DESIGNED BY	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	4/15/13	JPC		JPC		JPM	CHM



0 1000 2000 4000  
 APPROXIMATE SCALE IN FEET

FORMER LOEFFEL FACILITY  
 ATHENS, CLARKE COUNTY, GEORGIA  
 HSI#10376

**FIGURE 3  
 USGS TOPOGRAPHIC MAP**

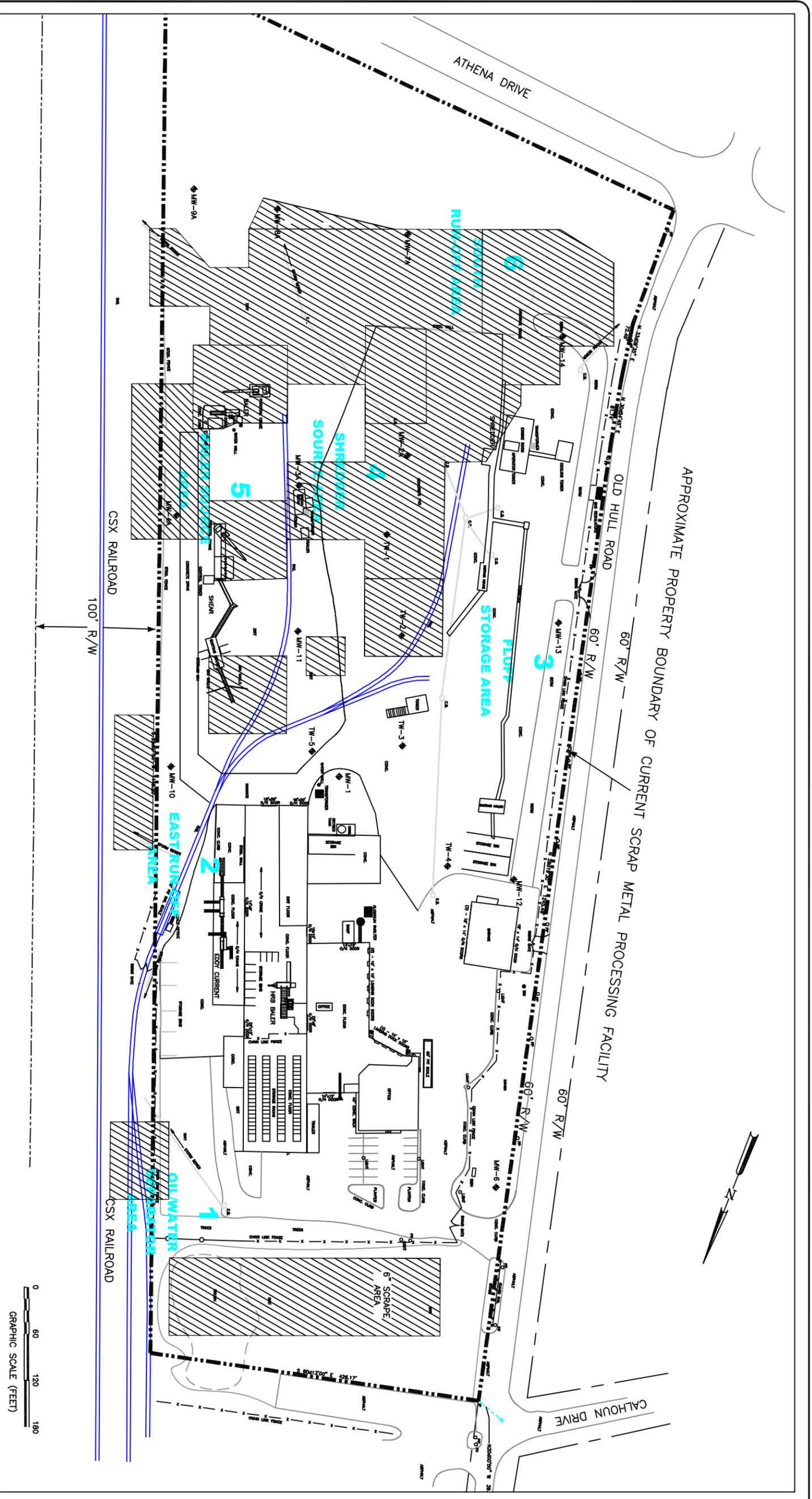
VRP - 2ND SEMI ANNUAL PROGRESS REPORT



Peachtree  
 Environmental



QUADRANGLE  
 LOCATION



- LEGEND**
- ◆ GROUNDWATER MONITORING WELL
  - ▨ EXTENT OF EXCAVATION AREAS

**NOTES**

TW-1, TW-2, TW-3, AND TW-4 WERE TEMPORARY WELLS AND ARE NO LONGER ONSITE.  
 MW-1 WAS DESTROYED AND IS NO LONGER ONSITE.  
 MW-10, MW-11, MW-12, MW-13, AND MW-14 WERE INSTALLED ON DECEMBER 19-21, 2012..

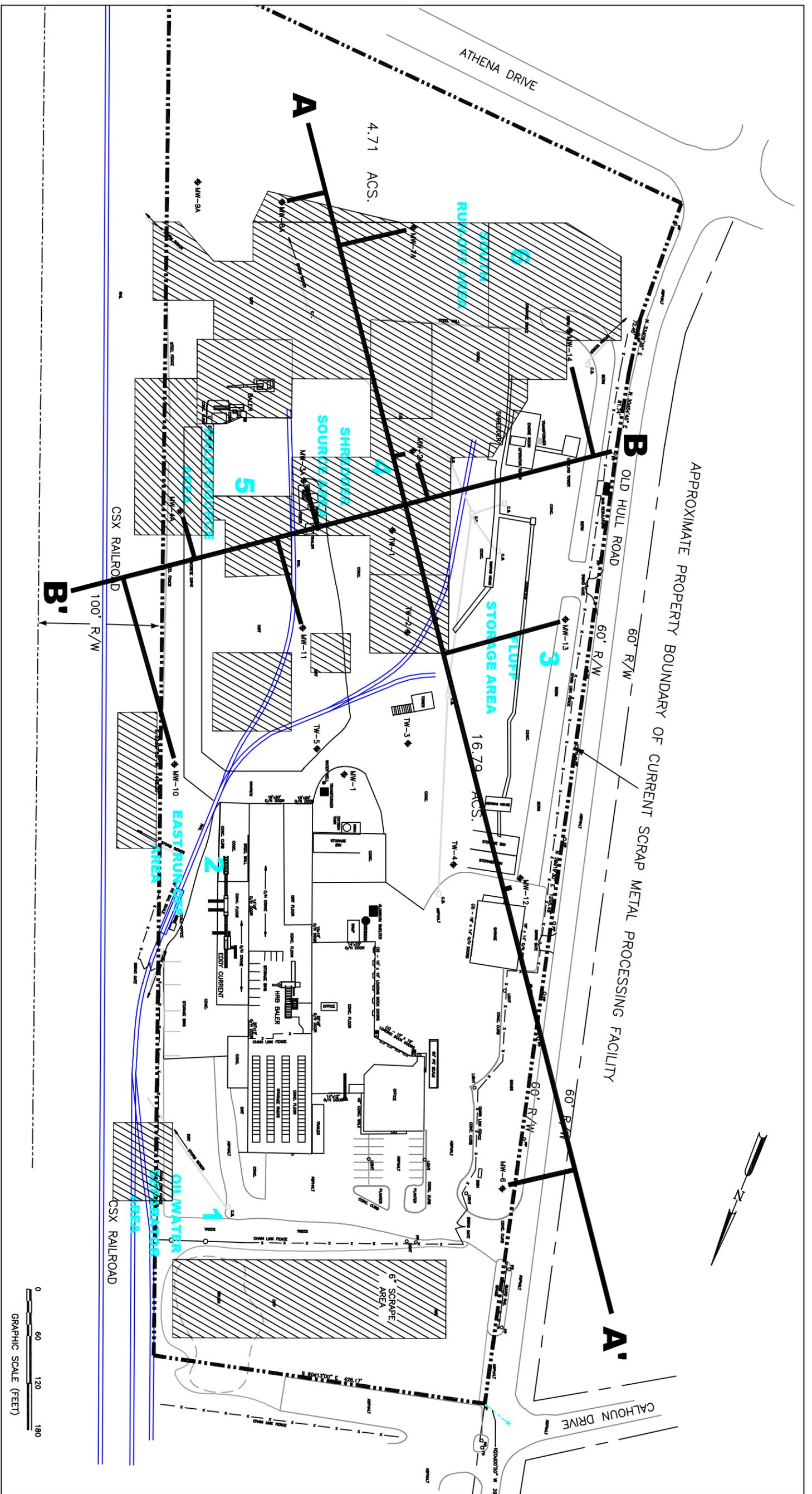
FIGURE NO.  
**4**  
 FORMER LOEFF  
 2318

**FORMER LOEFF FACILITY  
 ATHENS, GEORGIA**

**SITE LAYOUT MAP DEPICTING FORMER SOIL  
 SOURCE AREAS AND EXCAVATION EXTENTS**



REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	7/15/13		JPC	JPC	JPM	CHM



- LEGEND**
- ◆ GROUNDWATER MONITORING WELL
  - ▨ EXTENT OF EXCAVATION AREAS

**NOTES**

TW-1, TW-2, TW-3, AND TW-4 WERE TEMPORARY WELLS AND ARE NO LONGER ONSITE.  
 MW-1 WAS DESTROYED AND IS NO LONGER ONSITE.  
 MW-10, MW-11, MW-12, MW-13, AND MW-14 WERE INSTALLED ON DECEMBER 19-21, 2012.



FIGURE NO.  
**5**  
 FORMER LOEF  
 2318

**FORMER LOEF FACILITY  
 ATHENS, GEORGIA**

---

**CROSS-SECTION LOCATION MAP**

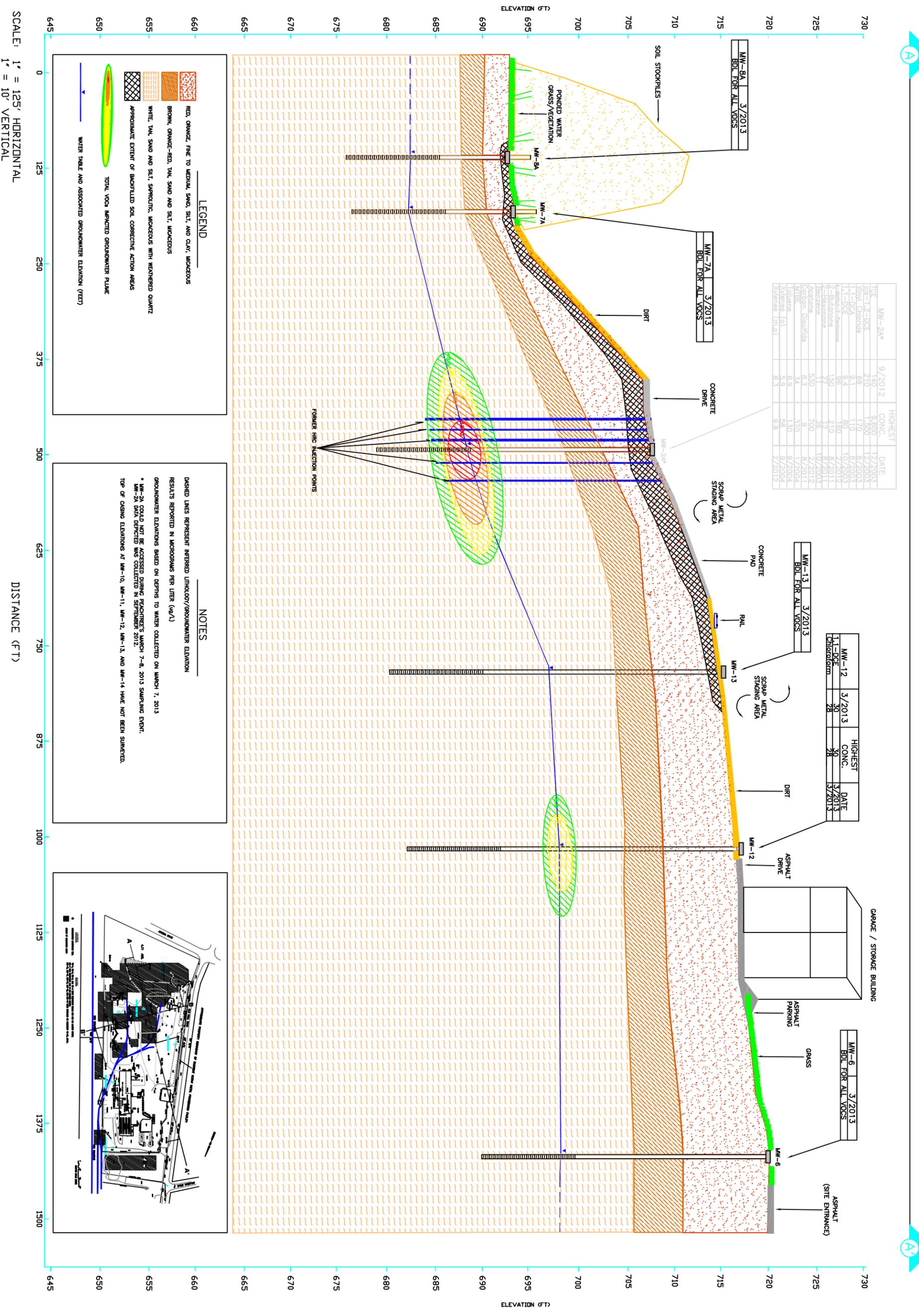


REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DATE OF ISSUE	DWN BY	CHK BY	APP BY
4/15/13	JPC	JPM	CHM
	JPC		

CROSS-SECTION A-A'



SCALE: 1" = 125' HORIZONTAL  
1" = 10' VERTICAL

DISTANCE (FT)

FIGURE NO. **6A**  
FORMER LOEF  
2318

**FORMER LOEF FACILITY  
ATHENS, GEORGIA**

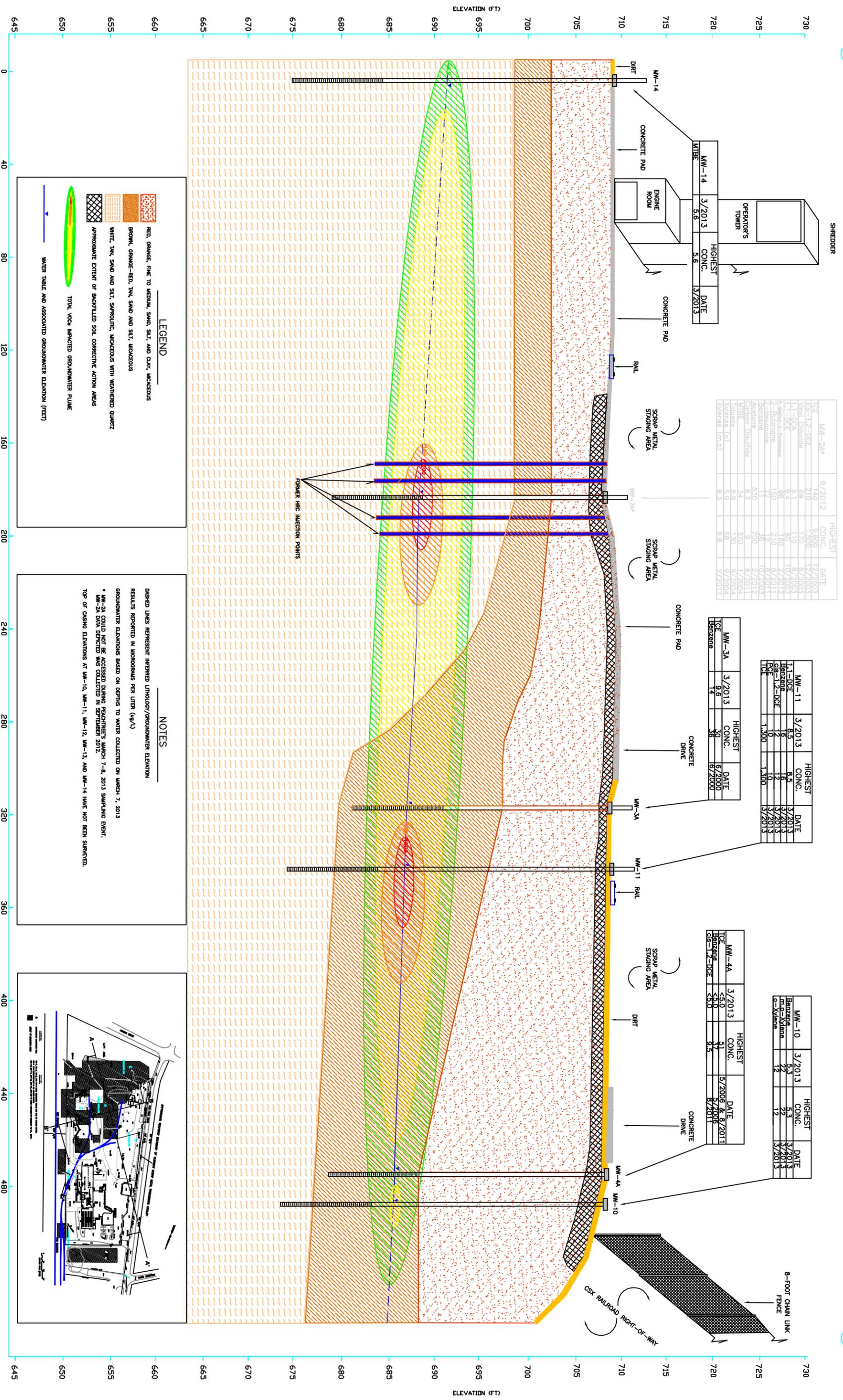
**SITE CROSS-SECTION DIAGRAM  
A - A'**



REV	DATE	DESCRIPTION	DMN BY	DES BY	CHK BY	APP BY

DATE OF ISSUE: 4/15/13  
 DMN BY: JPC  
 DES BY: JPC  
 CHK BY: JPM  
 APP BY: CHM

CROSS-SECTION B-B'

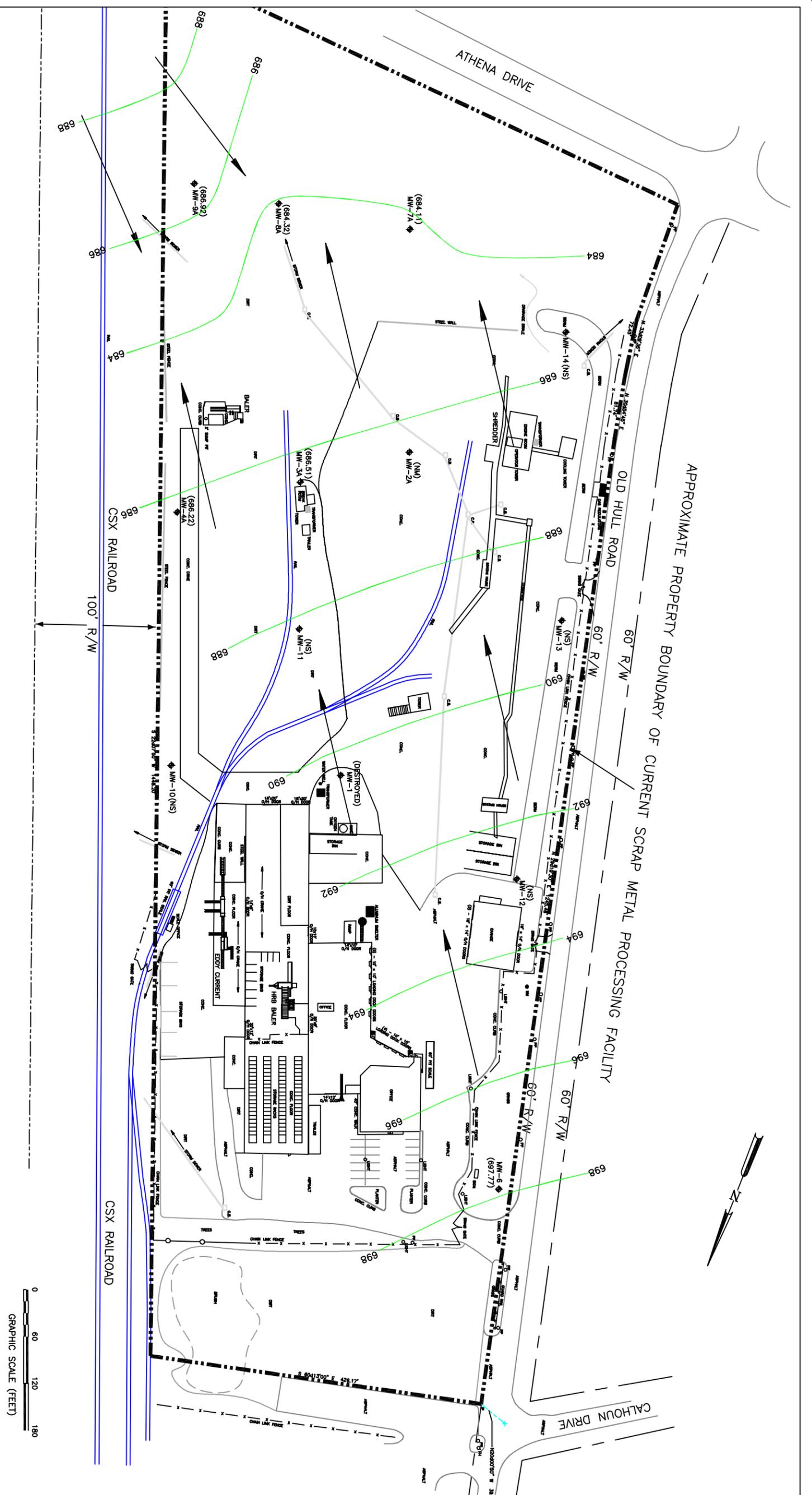


SCALE: 1" = 40' HORIZONTAL  
1" = 10' VERTICAL

DISTANCE (FT)



REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	4/12/13		JPC	JPC	JPM	CHM



- LEGEND**
- ◆ GROUNDWATER MONITORING WELL
  - (686.22) GROUNDWATER ELEVATION (IN FEET ABOVE MSL)
  - 688 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
  - APPROXIMATE GROUNDWATER FLOW DIRECTION
  - (NS) MONITORING WELL WAS NOT SURVEYED

**NOTES**

MW-1 WAS DESTROYED AND IS NO LONGER ONSITE.  
 MW-10, MW-11, MW-12, MW-13, AND MW-14 WERE INSTALLED ON DECEMBER 19-21, 2012.

FIGURE NO.  
**7**  
 FORMER LOEF  
 2318

**FORMER LOEF FACILITY  
 ATHENS, GEORGIA**

**GROUNDWATER TABLE MAP -  
 MARCH 7, 2013**



REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DATE OF ISSUE: 4/15/13  
 DWN BY: JPC  
 DES BY: JPC  
 CHK BY: TJC  
 APP BY: TJC

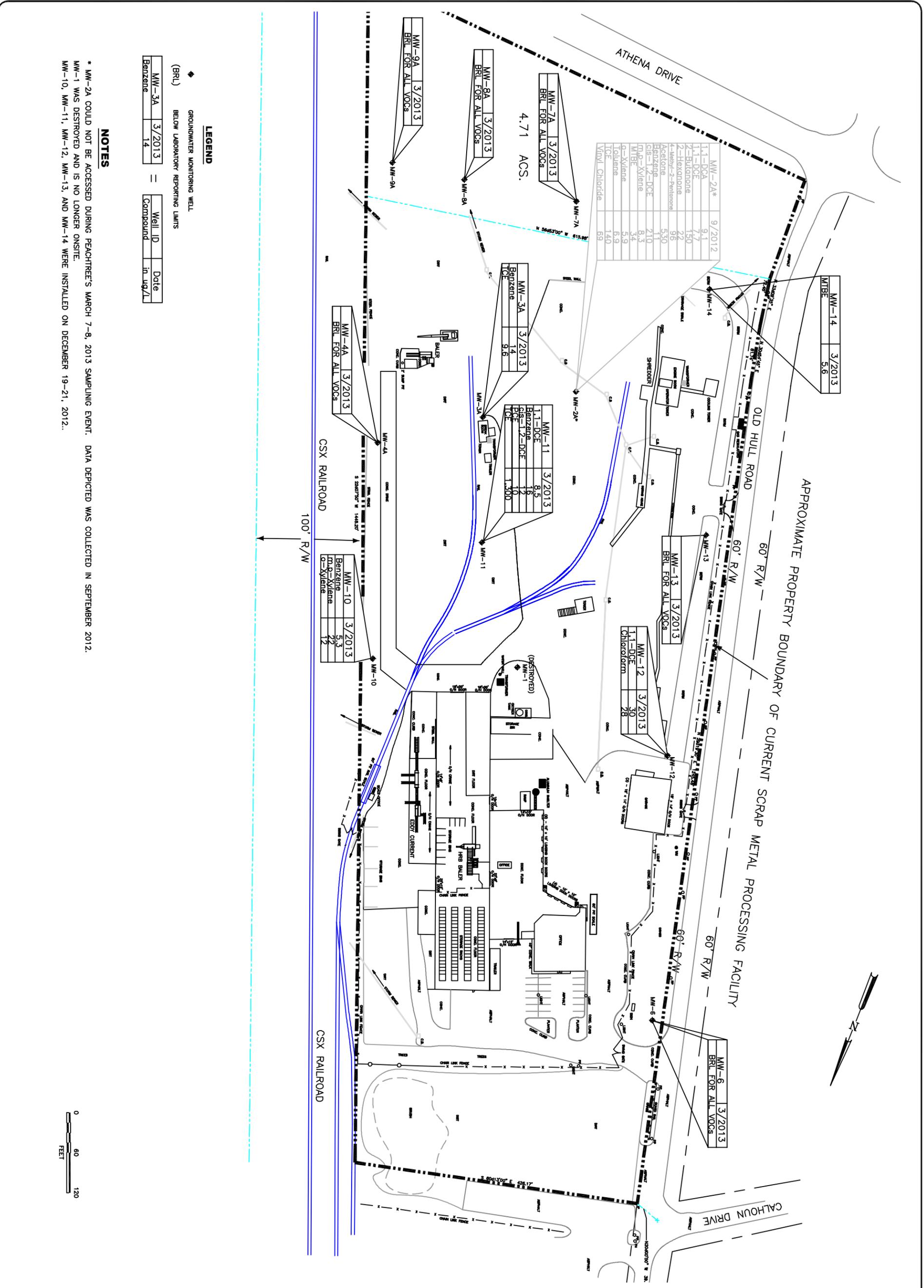


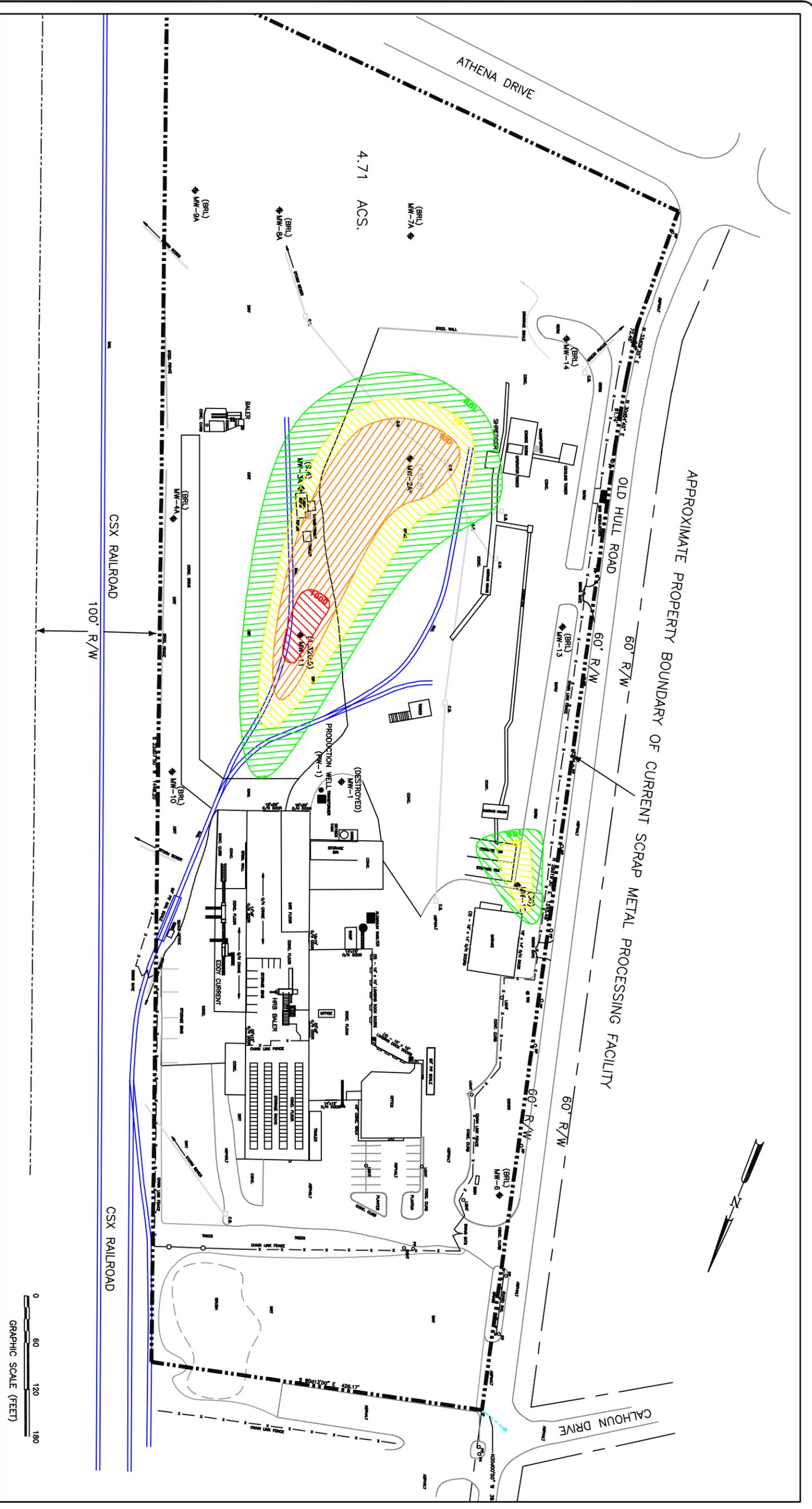
FIGURE NO. <h1 style="text-align: center;">8</h1> Former Loef 2318	<b>FORMER LOEF FACILITY ATHENS, GEORGIA</b>  <b>MARCH 2013 GROUNDWATER ANALYTICAL RESULTS</b>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>DWN BY</th> <th>DES BY</th> <th>CHK BY</th> <th>APP BY</th> </tr> </thead> <tbody> <tr> <td> </td> </tr> </tbody> </table>	REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY								<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DATE OF ISSUE</td> <td>DWN BY</td> <td>IPC</td> <td>CHK BY</td> <td>JPM</td> </tr> <tr> <td>4/15/13</td> <td>JPC</td> <td>JPC</td> <td>JPM</td> <td>CHM</td> </tr> </table>	DATE OF ISSUE	DWN BY	IPC	CHK BY	JPM	4/15/13	JPC	JPC	JPM	CHM
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY																						
DATE OF ISSUE	DWN BY	IPC	CHK BY	JPM																								
4/15/13	JPC	JPC	JPM	CHM																								

**LEGEND**

- ◆ GROUNDWATER MONITORING WELL
- (BRL) BELOW LABORATORY REPORTING LIMITS
- Well ID Date
- Compound in ug/L

**NOTES**

\* MW-2A COULD NOT BE ACCESSED DURING PEACHTREE'S MARCH 7-8, 2013 SAMPLING EVENT. DATA DEPICTED WAS COLLECTED IN SEPTEMBER 2012.  
 MW-1 WAS DESTROYED AND IS NO LONGER ON-SITE.  
 MW-10, MW-11, MW-12, MW-13, AND MW-14 WERE INSTALLED ON DECEMBER 19-21, 2012.



- LEGEND**
- ◆ GROUNDWATER MONITORING WELL
  - (210.7) TOTAL TRICHLOROETHENE AND BREAKDOWN CONSTITUENT CONCENTRATION IN ug/L
  - (BRU) BELOW LABORATORY REPORTING LIMITS
  - TRICHLOROETHENE AND BREAKDOWN CONSTITUENT ISOCONTOUR

**NOTES**

\* MW-2A COULD NOT BE ACCESSED DURING PEACHTREE'S MARCH 7-8, 2013 SAMPLING EVENT. DATA DEPICTED WAS COLLECTED IN SEPTEMBER 2012.  
 MW-1 WAS DESTROYED AND IS NO LONGER ON-SITE.  
 MW-10, MW-11, MW-12, MW-13, AND MW-14 WERE INSTALLED ON DECEMBER 19-21, 2012.

FIGURE NO.  
**9**  
 FORMER LOEFF  
 2318

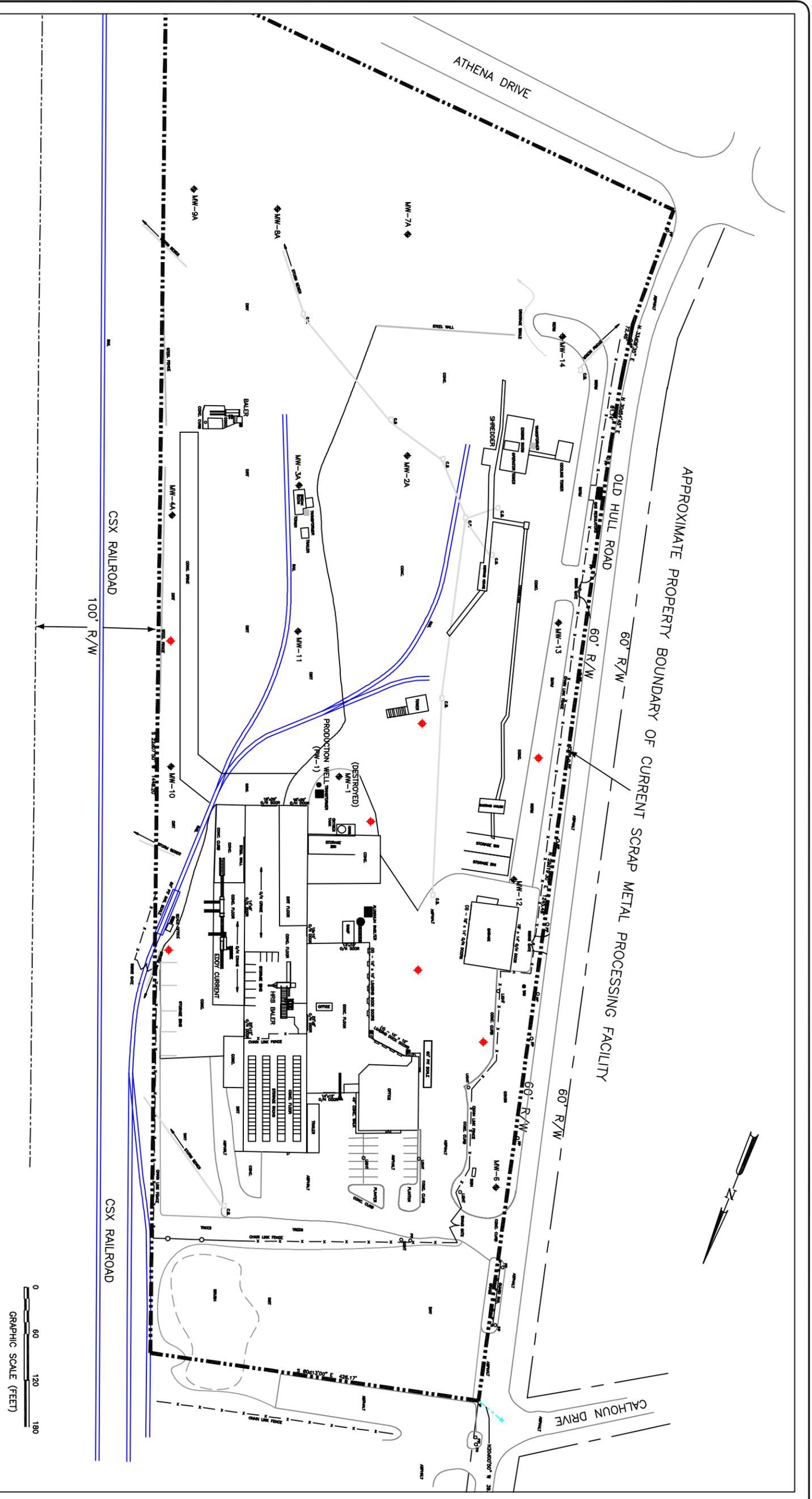
**FORMER LOEFF FACILITY  
 ATHENS, GEORGIA**  
 TRICHLOROETHENE AND ASSOCIATED BREAKDOWN  
 CONSTITUENTS ISOCONTOUR MAP - MARCH 2013



REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	4/15/13		JPC	JPC	JPM	CHM







- LEGEND**
- ◆ GROUNDWATER MONITORING WELL
  - ◆ PROPOSED HORIZONTAL DELINEATION MONITORING WELL

**NOTES**

MW-1 WAS DESTROYED AND IS NO LONGER ONSITE.  
 MW-10, MW-11, MW-12, MW-13, AND MW-14 WERE INSTALLED ON DECEMBER 19-21, 2012.

FIGURE NO.  
**12**  
 FORMER LOEF  
 2318

**FORMER LOEF FACILITY  
 ATHENS, GEORGIA**

**PROPOSED HORIZONTAL DELINEATION  
 MONITORING WELL LOCATION MAP**



REV	DATE	DESIGNED BY	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	4/15/13	JPC		JPC		JPM	CHM



## APPENDIX A

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# GROUNDWATER MONITORING WELL DIAGRAMS

<b>MONITORING WELL: MW-10</b>		PAGE <u>1</u> OF <u>1</u>	
FACILITY: HULL REALITY		DATE STARTED: 12/19/12	DATE COMPLETED: 12/19/12
LOCATION: ATHENS, GEORGIA		SURFACE: CLAY/SILT FILL	LOGGED BY: JPC
INSTALLATION METHOD: 7.25" O.D. HOLLOW STEM AUGER		ELEVATION AT TOP OF CASING (TOC): UNKNOWN	
DRILLER: EM SERVICES		DEPTH TO WATER (TOC): 20.86 FT	
DRILL RIG TYPE: TRUCK MOUNTED DRILL RIG		STATIC WATER COLUMN: 14.14 FT	

DEPTH (ft)	Samples				Subsurface Soil Description	WL	Monitoring Well Details	DEPTH (ft)
	Number	Interval & Type	Blow Count	Recovery				
0					LITHOLOGY BASED ON SOIL CUTTINGS OBSERVATIONS			0
2					DARK RED, SILT, CLAY FILL, FINE AND VERY PLASTIC TO 5'			2
4								4
6					SAME, DARK RED SILT AND CLAY, FINE AND VERY PLASTIC TO 10', NO ODOR			6
8								8
10					BROWN, RED, SILT, TRACE CLAY FINE TO MEDIUM, LESS PLASTIC TO 15', NO ODOR			10
12								12
14								14
16					ORANGE, BROWN, SILT AND SAND, TRACE CLAY, FINE TO MEDIUM, TO 20', NO ODOR			16
18								18
20								20
22					DAMP AT 22' SAME, ORANGE, BROWN, SILT AND SAND, TRACE CLAY, FINE TO MEDIUM TO 25', NO ODOR	20.86'		22
24								24
26								26
28					WET AT 26' SAME, ORANGE, BROWN, SILT AND SAND, TRACE CLAY, FINE TO MEDIUM TO 30', NO ODOR			28
30								30
32					SAME, ORANGE, BROWN, SILT AND SAND, TRACE CLAY, FINE TO MEDIUM TO 35', NO ODOR			32
34								34
36					END OF BORING 35'			36
38								38
40								40
42								42
44								44
46								46
48								48
50								50
52								52
54								54
56								56
58								58

**MONITORING WELL MW-10  
SOIL BORING / WELL INSTALLATION**



Peachtree  
Environmental

<b>MONITORING WELL: MW-11</b>		PAGE <u>1</u> OF <u>1</u>	
FACILITY: HULL REALITY		DATE STARTED: 12/19/12	DATE COMPLETED: 12/19/12
LOCATION: ATHENS, GEORGIA		SURFACE: CLAY/SILT FILL	LOGGED BY: JPC
INSTALLATION METHOD: 7.25" O.D. HOLLOW STEM AUGER		ELEVATION AT TOP OF CASING (TOC): UNKNOWN	
DRILLER: EM SERVICES		DEPTH TO WATER (TOC): 25.37 FT	
DRILL RIG TYPE: TRUCK MOUNTED DRILL RIG		STATIC WATER COLUMN: 9.63 FT	

DEPTH (ft)	Samples				Subsurface Soil Description	WL	Monitoring Well Details	DEPTH (ft)
	Number	Interval & Type	Blow Count	Recovery				
0					LITHOLOGY BASED ON SOIL CUTTINGS OBSERVATIONS			0
2					TAN, BROWN, SAND SILT, THEN RED CLAY AND SILT FINE AND VERY PLASTIC TO 5'			2
4								4
6								6
8					SAME, DARK RED SILT AND CLAY, FINE AND VERY PLASTIC TO 7', NO ODOR			8
10								10
12					BROWN, RED, SILT, TRACE CLAY FINE TO MEDIUM, LESS PLASTIC FROM 10' - 12', NO ODOR			12
14					ORANGE, SILT AND SAND FROM 12'-15', NO ODOR			14
16								16
18					ORANGE, BROWN, SILT AND SAND, TRACE CLAY, FINE TO MEDIUM, TO 20', DAMP, NO ODOR			18
20								20
22					WET AT 22'			22
24					SAME, ORANGE, BROWN, SILT AND SAND, TRACE CLAY, FINE TO MEDIUM TO 25', NO ODOR			24
26								26
28					SAME, ORANGE, BROWN, SILT AND SAND, TRACE CLAY, FINE TO MEDIUM TO 30', NO ODOR			28
30								30
32					SAME, ORANGE, BROWN, SILT AND SAND, TRACE CLAY, FINE TO MEDIUM TO 35', NO ODOR			32
34								34
36					END OF BORING 35'			36
38								38
40								40
42								42
44								44
46								46
48								48
50								50
52								52
54								54
56								56
58								58

**MONITORING WELL MW-11  
SOIL BORING / WELL INSTALLATION**



<b>MONITORING WELL: MW-12</b>		PAGE <u>1</u> OF <u>1</u>	
FACILITY: HULL REALITY		DATE STARTED: 12/20/12	DATE COMPLETED: 12/20/12
LOCATION: ATHENS, GEORGIA		SURFACE: PINESTRAW	LOGGED BY: JPC
INSTALLATION METHOD: 7.25" O.D. HOLLOW STEM AUGER		ELEVATION AT TOP OF CASING (TOC): UNKNOWN	
DRILLER: EM SERVICES		DEPTH TO WATER (TOC): 15.81 FT	
DRILL RIG TYPE: TRUCK MOUNTED DRILL RIG		STATIC WATER COLUMN: 19.19 FT	

DEPTH (ft)	Samples				Subsurface Soil Description	WL	Monitoring Well Details	DEPTH (ft)
	Number	Interval & Type	Blow Count	Recovery				
0					LITHOLOGY BASED ON SOIL CUTTINGS OBSERVATIONS			0
2					RED CLAY AND SILT FINE AND VERY PLASTIC TO 5'			2
4								4
6					SAME, DARK RED SILT AND CLAY, FINE AND VERY PLASTIC TO 8', NO ODOR			6
8								8
10					ORANGE, RED, SILT, SAND, CLAY AT 9'			10
12					BROWN, RED, SILT, TRACE CLAY FINE TO MEDIUM, LESS PLASTIC FROM 10' - 12', NO ODOR			12
14					ORANGE, SILT AND SAND FROM 12'-15', NO ODOR	15.81'		14
16								16
18					DAMP AT 18' ORANGE, BROWN, SILT AND SAND, TRACE CLAY, FINE TO MEDIUM, TO 20', NO ODOR			18
20								20
22					WET AT 20'			22
24					SAME, GREY, BROWN, SILT AND SAND, TRACE CLAY, FINE TO MEDIUM TO 25', NO ODOR			24
26								26
28					SAME, GREY, BROWN, SILT AND SAND, TRACE CLAY, FINE TO MEDIUM TO 30', NO ODOR			28
30								30
32					SAME, GREY, BROWN, SILT AND SAND, TRACE CLAY, FINE TO MEDIUM TO 35', NO ODOR			32
34								34
36					END OF BORING 35'			36
38								38
40								40
42								42
44								44
46								46
48								48
50								50
52								52
54								54
56								56
58								58

**MONITORING WELL MW-12  
SOIL BORING / WELL INSTALLATION**



<b>MONITORING WELL: MW-13</b>		PAGE <u>1</u> OF <u>1</u>	
FACILITY: HULL REALITY		DATE STARTED: 12/21/12	DATE COMPLETED: 12/21/12
LOCATION: ATHENS, GEORGIA		SURFACE: PINESTRAW	LOGGED BY: JPC
INSTALLATION METHOD: 7.25" O.D. HOLLOW STEM AUGER		ELEVATION AT TOP OF CASING (TOC): UNKNOWN	
DRILLER: EM SERVICES		DEPTH TO WATER (TOC): 17.29 FT	
DRILL RIG TYPE: TRUCK MOUNTED DRILL RIG		STATIC WATER COLUMN: 17.71 FT	

DEPTH (ft)	Samples				Subsurface Soil Description	WL	Monitoring Well Details	DEPTH (ft)
	Number	Interval & Type	Blow Count	Recovery				
0					LITHOLOGY BASED ON SOIL CUTTINGS OBSERVATIONS			0
2					DARK BROWN SOILS FOLLOWED BY TAN, SILT, SAND, TRACE CLAY, FINE TO MEDIUM, NO ODOR			2
4								4
6					SAME, TAN, SILT, SAND, TRACE CLAY TO 10', NO ODOR			6
8								8
10								10
12					BROWN, TAN, WHITE, SILT, TRACE CLAY, FINE TO MEDIUM, MICACEOUS 12'-15', NO ODOR			12
14								14
16								16
18					DAMP AT 18' SAME BROWN, TAN, SILT, SAND TRACE CLAY, FINE TO MEDIUM, TO 20', MICACEOUS, NO ODOR	17.29'		18
20								20
22					WET AT 22', MICACEOUS SAME, TAN, BROWN, SILT AND SAND, TRACE CLAY, FINE TO MEDIUM TO 25', NO ODOR			22
24								24
26								26
28					TAN, GREY, BROWN, SILT AND SAND, TRACE CLAY, FINE TO MEDIUM TO 30', MICACEOUS, NO ODOR			28
30								30
32					TAN, GREY, BROWN, SILT AND SAND, TRACE CLAY, FINE TO MEDIUM TO 35', MICACEOUS, NO ODOR			32
34								34
36					END OF BORING 35'			36
38								38
40								40
42								42
44								44
46								46
48								48
50								50
52								52
54								54
56								56
58								58

**MONITORING WELL MW-13  
SOIL BORING / WELL INSTALLATION**



Peachtree  
Environmental

<b>MONITORING WELL: MW-14</b>		PAGE <u>1</u> OF <u>1</u>	
FACILITY: HULL REALITY		DATE STARTED: 12/21/12	DATE COMPLETED: 12/21/12
LOCATION: ATHENS, GEORGIA		SURFACE: CLAY/SILT FILL	LOGGED BY: JPC
INSTALLATION METHOD: 7.25" O.D. HOLLOW STEM AUGER		ELEVATION AT TOP OF CASING (TOC): UNKNOWN	
DRILLER: EM SERVICES		DEPTH TO WATER (TOC): 18.78 FT	
DRILL RIG TYPE: TRUCK MOUNTED DRILL RIG		STATIC WATER COLUMN: 16.22 FT	

DEPTH (ft)	Samples				Subsurface Soil Description	WL	Monitoring Well Details	DEPTH (ft)
	Number	Interval & Type	Blow Count	Recovery				
0					LITHOLOGY BASED ON SOIL CUTTINGS OBSERVATIONS			0
2					DARK BROWN SOILS FOLLOWED BY TAN, SILT, SAND, AND CLAY, FINE TO MEDIUM, NO ODOR			2
4								4
6								6
8					SAME, RED, SILT, SAND, AND CLAY PLASTIC TO 10', NO ODOR			8
10								10
12					SAME TO 15', SLIGHT PETROLEUM ODOR			12
14								14
16								16
18					DAMP AT 18' SAME BROWN, RED, SILT, SAND CLAY, FINE, PLASTIC TO 20', NO ODOR			18
20								20
22					WET AT 22', TAN, BROWN, RED, SILT AND SAND, TRACE CLAY, FINE TO MEDIUM TO 25', NO ODOR			22
24								24
26					BROWN, SILT AND SAND, TRACE CLAY, FINE TO MEDIUM TO 30', SLIGHTLY MICACEOUS, NO ODOR			26
28								28
30								30
32					TAN, ORANGE, BROWN, SILT AND CLAY, FINE TO MEDIUM TO 35', SLIGHTLY MICACEOUS, NO ODOR			32
34								34
36					END OF BORING 35'			36
38								38
40								40
42								42
44								44
46								46
48								48
50								50
52								52
54								54
56								56
58								58

**MONITORING WELL MW-14  
SOIL BORING / WELL INSTALLATION**



Peachtree  
Environmental



## APPENDIX B

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# FIELD WATER QUALITY SAMPLING FORMS

### Monitoring Well Purging & Sampling Information

Peachtree Project: Former Loef Facility (Hull) Project No.: 2318 Date:

**Well Information**

Well Identification No:	MW-2A	Location:	Athens, Georgia
Well Diameter:	2-Inch	Well Construction:	Schedule 40 PVC
Total Well Depth from TOC:	30.00 feet		
Depth to Water from TOC:	NM	feet	
Length of Static Water Column:	NM	feet	

**NOTES:**

**Well Observations**

General Condition of Well: Good General Condition of surrounding area: Good  
 LNAPL observation: NA Method of measure: NA

Volume of water in well = Height (Ht) of water in well x K  
 where: K = 0.17 (2-inch well)  
           0.571 (3-inch well)  
           0.652 (4-inch well)

Volume of water in well (Ht. x K): **NA** gallons **NA** gallons  
(1 well volume) (3 well volumes)

**Well Purging**

**Purging method:** Electric adjustable flow rate submersible pump.

Well Volumes	pH	Conductivity (us/cm)	Dissolved Oxygen	Temperature (°C)	ORP	Turbidity (NTUs)
1						
2						
3						
4						
5						
6						
7						

**Purged To Dryness:**

**Sample Information**

**Method of sampling:**

**Decontamination procedures:**

Sample ID	Container	Preservative	Analyses
NOT SAMPLED	2 - 40 ml	HCL	Method 8260B Volatile Organics

**Sample Transport and Preservation:**

Sample Destination: Via:

Chain of Custody completed:

**Peachtree Environmental Personnel:**

## Monitoring Well Purging & Sampling Information

Peachtree Project: Former Loef Facility (Hull)      Project No.: 2318      Date: 3/7/13

### Well Information

Well Identification No:	<b>MW-3A</b>	Location:	Athens, Georgia
Well Diameter:	2-Inch	Well Construction:	Schedule 40 PVC
Total Well Depth from TOC:	30.00 feet		
Depth to Water from TOC:	<b>25.72</b> feet		
Length of Static Water Column:	4.28 feet		

### NOTES:

### Well Observations

General Condition of Well: Good	General Condition of surrounding area: Good
LNAPL observation: NA	Method of measure: NA

Volume of water in well = Height (Ht) of water in well x K  
 where: K = 0.17 (2-inch well)  
           0.571 (3-inch well)  
           0.652 (4-inch well)

Volume of water in well (Ht. x K):	<b>0.73</b>	gallons		<b>2.18</b>	gallons
		(1 well volume)			(3 well volumes)

### Well Purging

**Purging method:** Peristaltic Pump with dedicated teflon tubing.

Well Volumes	pH	Conductivity (us/cm)	Dissolved Oxygen	Temperature (°C)	ORP	Turbidity (NTUs)
1	4.77	0.091	1.50	18.56	273	26.1
2	4.82	0.062	0.00	20.11	293	5.74
3	4.80	0.061	0.00	20.18	297	0.02
4						
5						
6						
7						

**Purged To Dryness:**

### Sample Information

**Method of sampling:** Peristaltic Pump with dedicated teflon tubing

**Decontamination procedures:** Dedicated, one time use sampling equipment per each well per sampling event. Non-disposal sampling equipment decontaminated per applicable USEPA SESD procedures.

Sample ID	Container	Preservative	Analyses
HRE-0313-MW-3A	2 - 40 ml	HCL	Method 8260B Volatile Organics

Sample Transport and Preservation: Ice Filled Cooler

Sample Destination: Analytical Environmental Services, Inc.      Via: Hand Delivery via Peachtree Personnel

Chain of Custody completed: Yes

**Peachtree Environmental Personnel:** Jason P. Chappell and Thomas A. Lawrence, P.G.

## Monitoring Well Purging & Sampling Information

Peachtree Project: Former Loef Facility (Hull) Project No.: 2318 Date: 3/7/13

### Well Information

Well Identification No:	<b>MW-4A</b>	Location:	Athens, Georgia
Well Diameter:	2-Inch	Well Construction:	Schedule 40 PVC
Total Well Depth from TOC:	29.50 feet		
Depth to Water from TOC:	<b>22.96</b> feet		
Length of Static Water Column:	6.54 feet		

### NOTES:

### Well Observations

General Condition of Well: Good	General Condition of surrounding area: Good
LNAPL observation: NA	Method of measure: NA

Volume of water in well = Height (Ht) of water in well x K

where: K = 0.17 (2-inch well)  
 0.571 (3-inch well)  
 0.652 (4-inch well)

Volume of water in well (Ht. x K):	<b>1.11</b>	gallons		<b>3.34</b>	gallons
		(1 well volume)			(3 well volumes)

### Well Purging

**Purging method:** Peristaltic Pump with dedicated teflon tubing.

Well Volumes	pH	Conductivity (us/cm)	Dissolved Oxygen	Temperature (°C)	ORP	Turbidity (NTUs)
1	4.71	0.177	2.19	16.58	313	30.8
2	4.73	0.186	4.92	16.99	348	4.99
3	4.73	0.190	7.25	17.47	385	0.00
4						
5						
6						
7						

**Purged To Dryness:**

### Sample Information

**Method of sampling:** Peristaltic Pump with dedicated teflon tubing.

**Decontamination procedures:** Dedicated, one time use sampling equipment per each well per sampling event. Non-disposal sampling equipment decontaminated per applicable USEPA SESD procedures.

Sample ID	Container	Preservative	Analyses
HRE-0313-MW-4A	2 - 40 ml	HCL	Method 8260B Volatile Organics

Sample Transport and Preservation: Ice Filled Cooler

Sample Destination: Analytical Environmental Services, Inc. Via: Hand Delivery via Peachtree Personnel

Chain of Custody completed: Yes

**Peachtree Environmental Personnel:** Jason P. Chappell and Thomas A. Lawrence, P.G.

## Monitoring Well Purging & Sampling Information

Peachtree Project: Former Loef Facility (Hull) Project No.: 2318 Date: 3/7/13

### Well Information

Well Identification No:	MW-6	Location:	Athens, Georgia
Well Diameter:	2-Inch	Well Construction:	Schedule 40 PVC
Total Well Depth from TOC:	30.00 feet		
Depth to Water from TOC:	22.38 feet		
Length of Static Water Column:	7.62 feet		

### NOTES:

### Well Observations

General Condition of Well: Good General Condition of surrounding area: Good  
 LNAPL observation: NA Method of measure: NA

Volume of water in well = Height (Ht) of water in well x K  
 where: K = 0.17 (2-inch well)  
           0.571 (3-inch well)  
           0.652 (4-inch well)

Volume of water in well (Ht. x K): **1.30** gallons **3.89** gallons  
(1 well volume) (3 well volumes)

### Well Purging

**Purging method:** Peristaltic Pump with dedicated teflon tubing.

Well Volumes	pH	Conductivity (us/cm)	Dissolved Oxygen	Temperature (°C)	ORP	Turbidity (NTUs)
1	4.81	0.032	6.26	17.44	264	1.12
2	4.86	0.031	6.06	18.18	304	0.00
3	4.86	0.031	5.34	18.78	351	0.00
4	4.86	0.030	5.14	18.89	356	0.00
5	4.87	0.030	5.51	18.87	359	0.00
6						
7						

**Purged To Dryness:**

### Sample Information

**Method of sampling:** Peristaltic Pump with dedicated teflon tubing.

**Decontamination procedures:** Dedicated, one time use sampling equipment per each well per sampling event. Non-disposal sampling equipment decontaminated per applicable USEPA SESD procedures.

Sample ID	Container	Preservative	Analyses
HRE-0313-MW-6	2 - 40 ml	HCL	Method 8260B Volatile Organics

Sample Transport and Preservation: Ice Filled Cooler

Sample Destination: Analytical Environmental Services, Inc. Via: Hand Delivery via Peachtree Personnel

Chain of Custody completed: Yes

**Peachtree Environmental Personnel:** Jason P. Chappell and Thomas A. Lawrence, P.G.

## Monitoring Well Purging & Sampling Information

Peachtree Project: Former Loef Facility (Hull)      Project No.: 2318      Date: 3/8/13

### Well Information

Well Identification No:	<b>MW-7A</b>	Location:	Athens, Georgia
Well Diameter:	2-Inch	Well Construction:	Schedule 40 PVC
Total Well Depth from TOC:	19.50 feet		
Depth to Water from TOC:	<b>11.97</b> feet		
Length of Static Water Column:	7.53 feet		

### NOTES:

### Well Observations

General Condition of Well: Good	General Condition of surrounding area: Good
LNAPL observation: NA	Method of measure: NA

Volume of water in well = Height (Ht) of water in well x K  
 where: K = 0.17 (2-inch well)  
               0.571 (3-inch well)  
               0.652 (4-inch well)

Volume of water in well (Ht. x K):	<b>1.28</b> gallons	<b>3.84</b> gallons
	(1 well volume)	(3 well volumes)

### Well Purging

**Purging method:** Electric adjustable flow rate submersible pump.

Well Volumes	pH	Conductivity (us/cm)	Dissolved Oxygen	Temperature (°C)	ORP	Turbidity (NTUs)
1	5.45	0.533	5.00	18.32	325	244
2	5.27	0.488	4.06	18.45	273	22
3	5.23	0.463	3.44	18.67	301	7.23
4						
5						
6						
7						

**Purged To Dryness:**

### Sample Information

**Method of sampling:** Teflon bailer with Teflon-coated wire lead.

**Decontamination procedures:** Dedicated, one time use sampling equipment per each well per sampling event. Non-disposal sampling equipment decontaminated per applicable USEPA SESD procedures.

Sample ID	Container	Preservative	Analyses
HRE-0313-MW-7A	2 - 40 ml	HCL	Method 8260B Volatile Organics

**Sample Transport and Preservation:** Ice Filled Cooler

**Sample Destination:** Analytical Environmental Services, Inc.      **Via:** Hand Delivery via Peachtree Personnel

**Chain of Custody completed:** Yes

**Peachtree Environmental Personnel:** Jason P. Chappell and Thomas A. Lawrence, P.G.

## Monitoring Well Purging & Sampling Information

Peachtree Project: Former Loef Facility (Hull)      Project No.: 2318      Date: 3/8/13

### Well Information

Well Identification No:	<b>MW-8A</b>	Location:	Athens, Georgia
Well Diameter:	2-Inch	Well Construction:	Schedule 40 PVC
Total Well Depth from TOC:	19.50 feet		
Depth to Water from TOC:	<b>10.51</b> feet		
Length of Static Water Column:	8.99 feet		

### NOTES:

### Well Observations

General Condition of Well: Good	General Condition of surrounding area: Good
LNAPL observation: NA	Method of measure: NA

Volume of water in well = Height (Ht) of water in well x K  
 where: K = 0.17 (2-inch well)  
           0.571 (3-inch well)  
           0.652 (4-inch well)

Volume of water in well (Ht. x K):	<b>1.53</b> gallons	<b>4.58</b> gallons
	(1 well volume)	(3 well volumes)

### Well Purging

**Purging method:** Electric adjustable flow rate submersible pump.

Well Volumes	pH	Conductivity (us/cm)	Dissolved Oxygen	Temperature (°C)	ORP	Turbidity (NTUs)
1	5.77	0.808	3.43	18.45	95	400
2	5.46	0.845	2.77	18.66	143	65
3	5.37	0.830	2.25	18.33	163	8.2
4						
5						
6						
7						

**Purged To Dryness:**

### Sample Information

**Method of sampling:** Teflon bailer with Teflon-coated wire lead.

**Decontamination procedures:** Dedicated, one time use sampling equipment per each well per sampling event. Non-disposal sampling equipment decontaminated per applicable USEPA SESD procedures.

Sample ID	Container	Preservative	Analyses
HRE-0313-MW-8A	2 - 40 ml	HCL	Method 8260B Volatile Organics

Sample Transport and Preservation: Ice Filled Cooler  
 Sample Destination: Analytical Environmental Services, Inc.      Via: Hand Delivery via Peachtree Personnel  
 Chain of Custody completed: Yes

**Peachtree Environmental Personnel:** Jason P. Chappell and Thomas A. Lawrence, P.G.



## Monitoring Well Purging & Sampling Information

Peachtree Project: Former Loef Facility (Hull) Project No.: 2318 Date: 3/7/13

### Well Information

Well Identification No: <b>MW-10</b>	Location: Athens, Georgia
Well Diameter: 2-Inch	Well Construction: Schedule 40 PVC
Total Well Depth from TOC:	35.00 feet
Depth to Water from TOC:	<b>20.86</b> feet
Length of Static Water Column:	14.14 feet

### NOTES:

### Well Observations

General Condition of Well: Good General Condition of surrounding area: Good  
 LNAPL observation: NA Method of measure: NA

Volume of water in well = Height (Ht) of water in well x K  
 where: K = 0.17 (2-inch well)  
           0.571 (3-inch well)  
           0.652 (4-inch well)

Volume of water in well (Ht. x K): **2.40** gallons **7.21** gallons  
(1 well volume) (3 well volumes)

### Well Purging

**Purging method:** Electric adjustable flow rate submersible pump.

Well Volumes	pH	Conductivity (us/cm)	Dissolved Oxygen	Temperature (°C)	ORP	Turbidity (NTUs)
1	6.22	0.156	1.12	19.92	557	77.8
2	4.75	0.145	1.05	20.49	511	55.3
3	4.57	0.145	1.19	20.19	505	8.80
4	4.48	0.141	1.14	20.18	502	1.18
5	4.44	0.142	1.45	20.27	503	0.62
6						
7						

**Purged To Dryness:**

### Sample Information

**Method of sampling:** Teflon bailer with Teflon-coated wire lead.

**Decontamination procedures:** Dedicated, one time use sampling equipment per each well per sampling event. Non-disposal sampling equipment decontaminated per applicable USEPA SESD procedures.

Sample ID	Container	Preservative	Analyses
HRE-0313-MW-10	2 - 40 ml	HCL	Method 8260B Volatile Organics

Sample Transport and Preservation: Ice Filled Cooler

Sample Destination: Analytical Environmental Services, Inc. Via: Hand Delivery via Peachtree Personnel

Chain of Custody completed: Yes

**Peachtree Environmental Personnel:** Jason P. Chappell and Thomas A. Lawrence, P.G.



## Monitoring Well Purging & Sampling Information

Peachtree Project: Former Loef Facility (Hull) Project No.: 2318 Date: 3/7/13

### Well Information

Well Identification No: <b>MW-12</b>	Location: Athens, Georgia
Well Diameter: 2-Inch	Well Construction: Schedule 40 PVC
Total Well Depth from TOC: 35.00 feet	
Depth to Water from TOC: <b>15.81</b> feet	
Length of Static Water Column: 19.19 feet	

### NOTES:

### Well Observations

General Condition of Well: Good General Condition of surrounding area: Good  
 LNAPL observation: NA Method of measure: NA

Volume of water in well = Height (Ht) of water in well x K  
 where: K = 0.17 (2-inch well)  
           0.571 (3-inch well)  
           0.652 (4-inch well)

Volume of water in well (Ht. x K): <b>3.26</b> gallons	<b>9.79</b> gallons
(1 well volume)	(3 well volumes)

### Well Purging

**Purging method:** Electric adjustable flow rate submersible pump.

Well Volumes	pH	Conductivity (us/cm)	Dissolved Oxygen	Temperature (°C)	ORP	Turbidity (NTUs)
1	5.30	0.059	2.37	21.91	379	>1000
2	5.01	0.051	2.25	21.80	392	5.48
3	4.54	0.051	2.13	21.88	423	1.96
4	4.90	0.046	2.23	21.74	402	0.44
5	4.95	0.046	2.18	21.73	400	0.12
6						
7						

**Purged To Dryness:**

### Sample Information

**Method of sampling:** Teflon bailer with Teflon-coated wire lead.

**Decontamination procedures:** Dedicated, one time use sampling equipment per each well per sampling event. Non-disposal sampling equipment decontaminated per applicable USEPA SESD procedures.

Sample ID	Container	Preservative	Analyses
HRE-0313-MW-12	2 - 40 ml	HCL	Method 8260B Volatile Organics

Sample Transport and Preservation: Ice Filled Cooler

Sample Destination: Analytical Environmental Services, Inc. Via: Hand Delivery via Peachtree Personnel

Chain of Custody completed: Yes

**Peachtree Environmental Personnel:** Jason P. Chappell and Thomas A. Lawrence, P.G.



## Monitoring Well Purging & Sampling Information

Peachtree Project: Former Loef Facility (Hull) Project No.: 2318 Date: 3/7/13

### Well Information

Well Identification No:	MW-14	Location:	Athens, Georgia
Well Diameter:	2-Inch	Well Construction:	Schedule 40 PVC
Total Well Depth from TOC:	35.00 feet		
Depth to Water from TOC:	18.78 feet		
Length of Static Water Column:	16.22 feet		

### NOTES:

### Well Observations

General Condition of Well: Good General Condition of surrounding area: Good  
 LNAPL observation: NA Method of measure: NA

Volume of water in well = Height (Ht) of water in well x K  
 where: K = 0.17 (2-inch well)  
           0.571 (3-inch well)  
           0.652 (4-inch well)

Volume of water in well (Ht. x K): **2.76** gallons **8.27** gallons  
(1 well volume) (3 well volumes)

### Well Purging

**Purging method:** Electric adjustable flow rate submersible pump.

Well Volumes	pH	Conductivity (us/cm)	Dissolved Oxygen	Temperature (°C)	ORP	Turbidity (NTUs)
1	5.18	0.051	1.76	22.14	376	>1000
2	5.22	0.542	1.50	22.20	367	15.5
3	5.18	0.530	1.63	22.42	361	2.48
4	5.11	0.523	1.50	22.30	362	1.12
5						
6						
7						

**Purged To Dryness:**

### Sample Information

**Method of sampling:** Teflon bailer with Teflon-coated wire lead.

**Decontamination procedures:** Dedicated, one time use sampling equipment per each well per sampling event. Non-disposal sampling equipment decontaminated per applicable USEPA SESD procedures.

Sample ID	Container	Preservative	Analyses
HRE-0313-MW-14	2 - 40 ml	HCL	Method 8260B Volatile Organics

Sample Transport and Preservation: Ice Filled Cooler

Sample Destination: Analytical Environmental Services, Inc. Via: Hand Delivery via Peachtree Personnel

Chain of Custody completed: Yes

**Peachtree Environmental Personnel:** Jason P. Chappell and Thomas A. Lawrence, P.G.



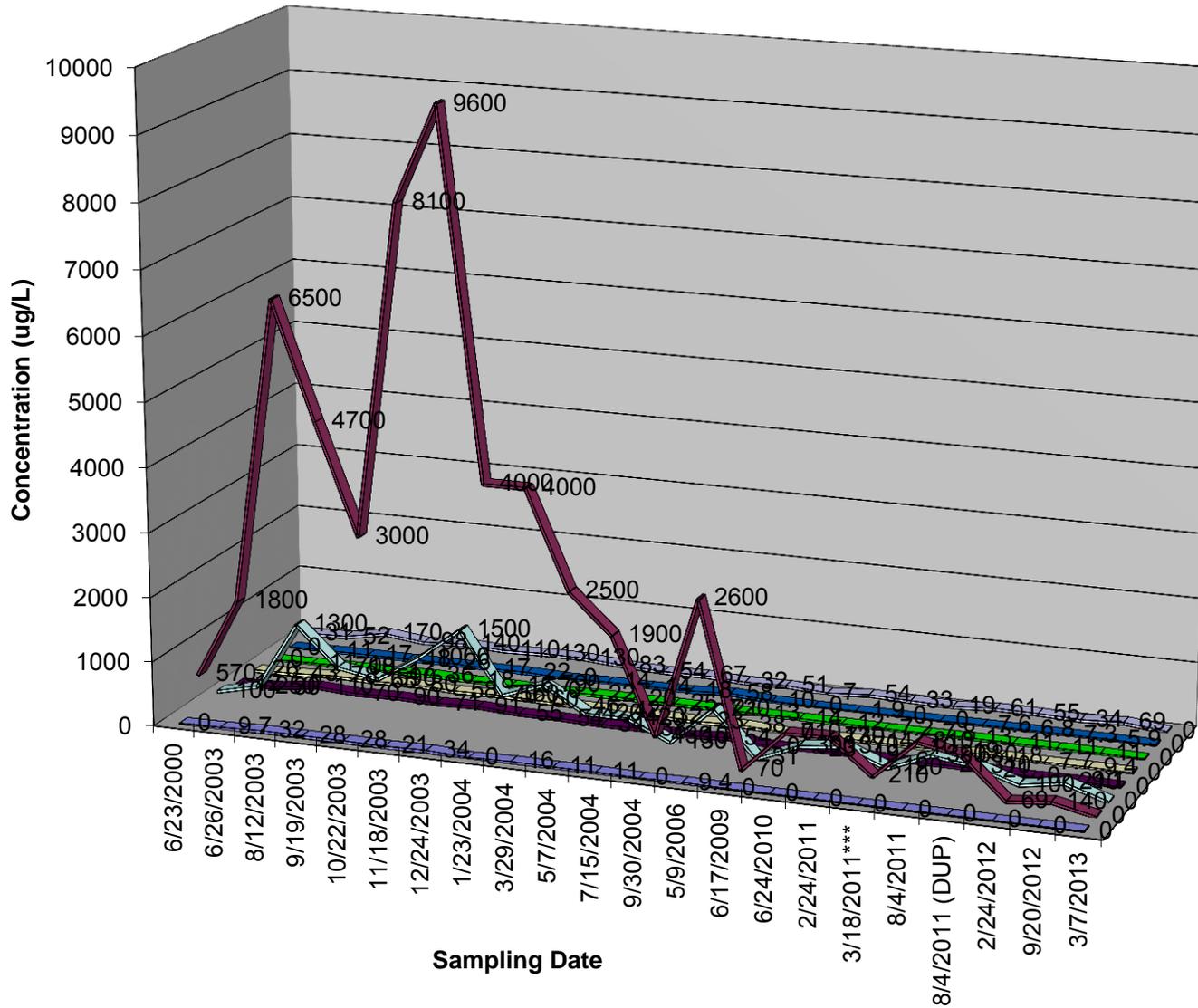
## APPENDIX C

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# HISTORIC GROUNDWATER TREND GRAPHS

Former Loef Facility (Hull)  
Athens, Clarke County, Georgia

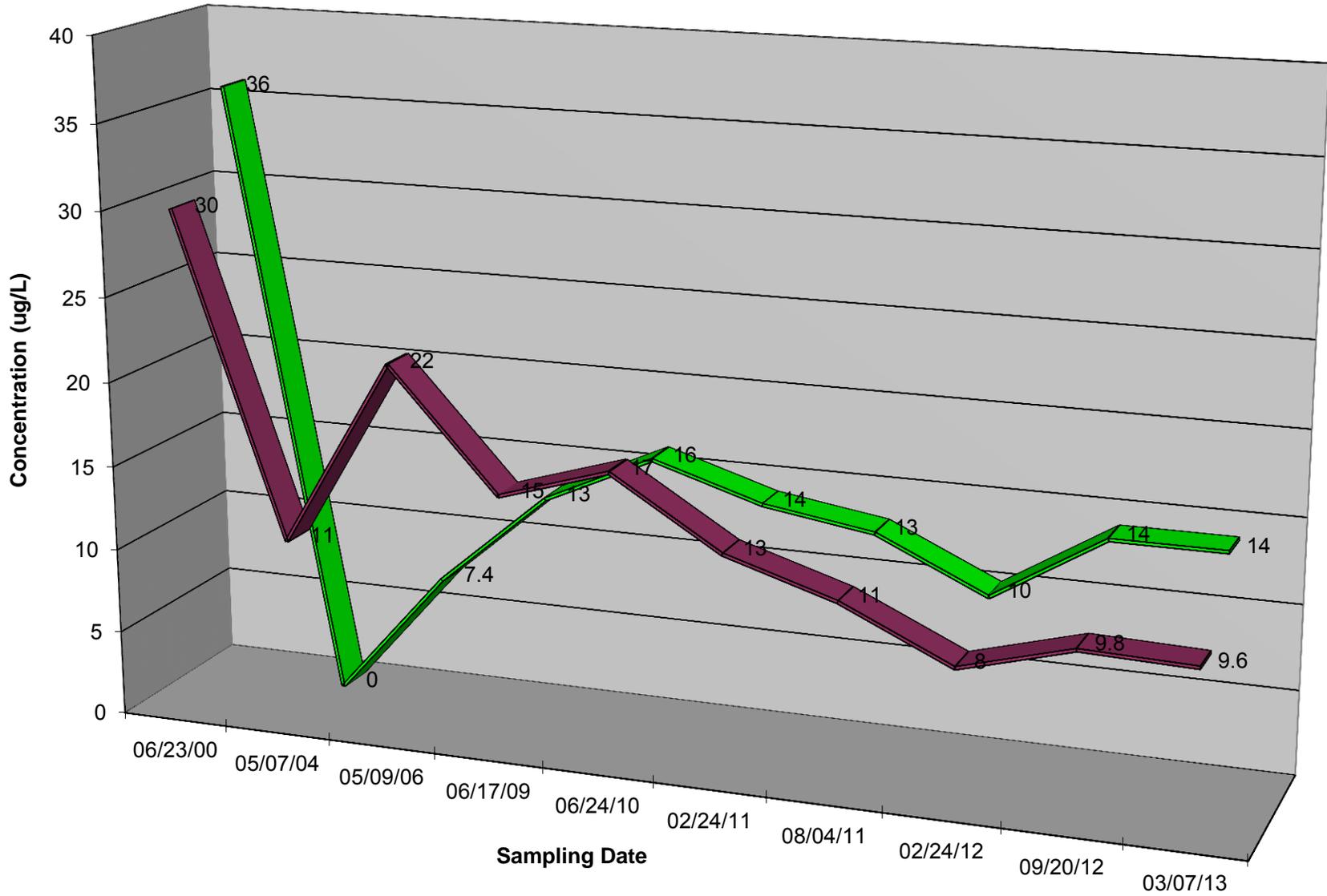
Analytical Data Trends - Monitoring Well MW-2A



■ 1,1,1-Trichloroethane 
 ■ Trichloroethene 
 ■ Cis-1,2-Dihloroethene 
 ■ 1,1-Dichloroethane 
 ■ 1,1-Dichloroethene 
 ■ Benzene 
 ■ Xylenes (o) 
 ■ Vinyl Chloride

Former Loef Facility (Hull)  
Athens, Clarke County, Georgia

Analytical Data Trends - Monitoring Well MW-3

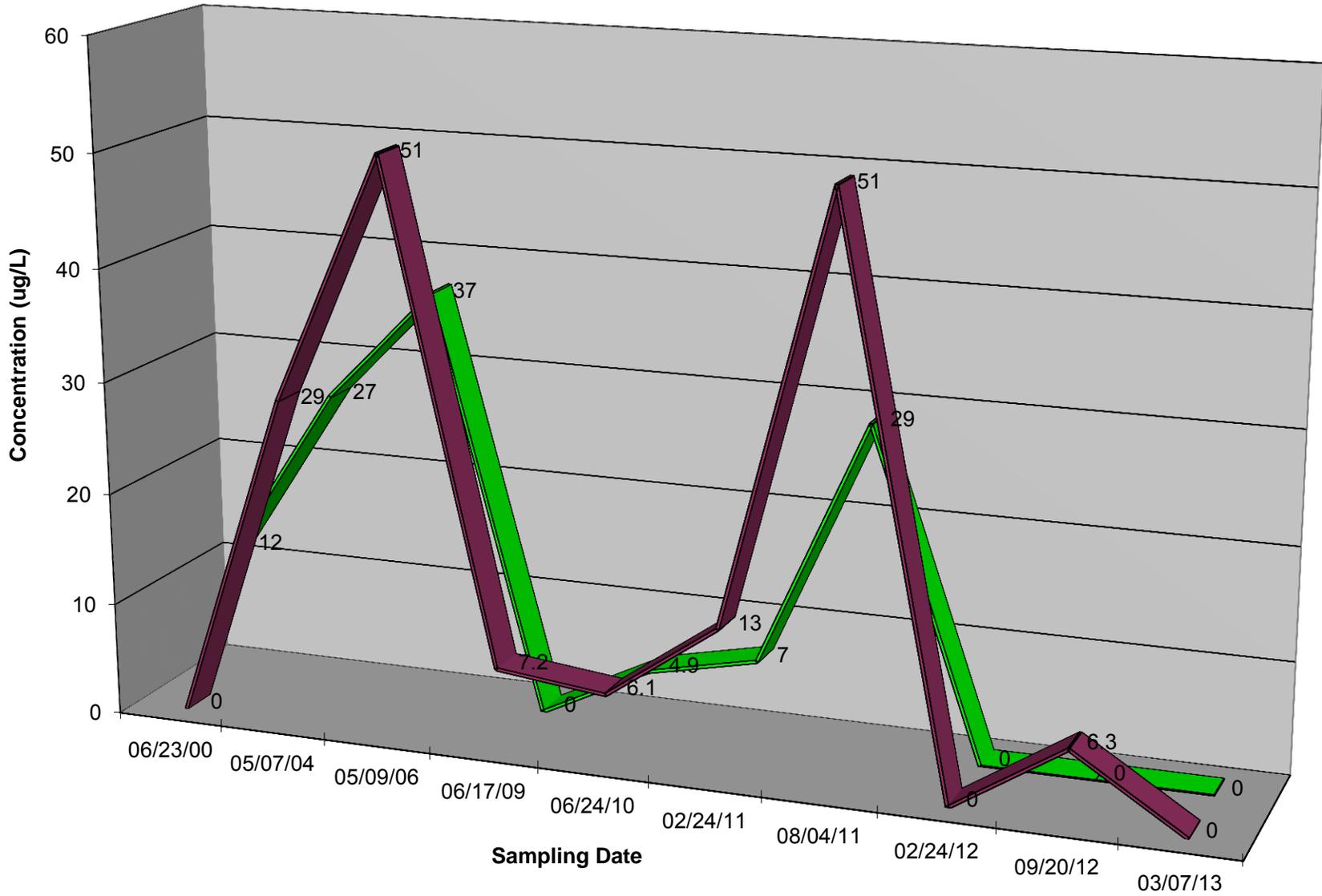


■ Trichloroethene

■ Benzene

Former Loeff Facility (Hull)  
Athens, Clarke County, Georgia

Analytical Data Trends - Monitoring Well MW-4



■ Trichloroethene

■ Benzene



## APPENDIX D

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# LABORATORY ACCREDITATION AND ANALYTICAL REPORTS



March 14, 2013

Jason Chappell  
Peachtree Environmental  
3040 Business Park Dr.  
Norcross GA 30071

TEL: (770) 330-3327  
FAX: (770) 559-8051

RE: Hull/Former Loef

Dear Jason Chappell:

Order No: 1303727

Analytical Environmental Services, Inc. received 12 samples on 3/8/2013 1:05:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Dorothy deBruvn  
Project Manager

CHAIN OF CUSTODY

Date: 3/8/13 Page 1 of 1

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

#	SAMPLE ID	DATE	TIME	SAMPLING		Matrix (See codes)	ANALYSIS REQUESTED										REMARKS	No # of Containers
				Grab	Composite		Chloride	Sulfide	Sulfate	W. trace	Total Org. Carbon	Chloride	Sulfide	Sulfate	W. trace	Total Org. Carbon		
1	HRE-0313-MW6	3/7/13	9:30	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	7		
2	HRE-0313-MW7A	3/8/13	10:30	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	2		
3	HRE-0313-MW8A	3/8/13	10:15	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	2		
4	HRE-0313-MW9A	3/8/13	1:00	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	2		
5	HRE-0313-MW12	3/7/13	16:00	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	2		
6	HRE-0313-MW13	3/7/13	14:45	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	2		
7	HRE-0313-MW10	3/7/13	11:00	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	2		
8	HRE-0313-MW4A	3/7/13	12:15	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	2		
9	HRE-0313-MW11	3/8/13	9:30	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	2		
10	<del>HRE-0313-MW2A</del>																	
11	HRE-0313-MW14	3/7/13	15:00	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	2		
12	HRE-0313-MW3A	3/7/13	13:30	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	2		
13	<del>HRE-0313-MW1</del>																	
14	<del>Sediment Blank</del>																	

RELINQUISHED BY: <i>Jm</i>	DATE/TIME: 3-8-13 13:05	RECEIVED BY: <i>[Signature]</i>	DATE/TIME: 3/8/13 1:05
PROJECT NAME: Hull Forensic Loop		PROJECT #: 2318	
SITE ADDRESS: Athens, GA		SEND REPORT TO: Jason Chappel	
INVOICE TO: (IF DIFFERENT FROM ABOVE)		QUOTE #:	
SHIPMENT METHOD: VIA COURIER		SHIPMENT METHOD: VIA MAIL	
OUT: 1		IN: 1	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: GREYHOUND	

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY. IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.  
 SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)  
 PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+1 = Sulfuric acid + ice S/M+1 = Sodium Disulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 14-Mar-13

<b>Client:</b> Peachtree Environmental	<b>Client Sample ID:</b> HRE-0313-MW6
<b>Project Name:</b> Hull/Former Loef	<b>Collection Date:</b> 3/7/2013 9:30:00 AM
<b>Lab ID:</b> 1303727-001	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Organic Carbon (TOC) SW9060A</b>								
Organic Carbon, Total	BRL	1.00		mg/L	R239798	1	03/08/2013 22:39	GR
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
1,1-Dichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
1,1-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
1,2-Dibromoethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
1,2-Dichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
1,2-Dichloropropane	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
2-Butanone	BRL	50		ug/L	173359	1	03/11/2013 14:00	YT
2-Hexanone	BRL	10		ug/L	173359	1	03/11/2013 14:00	YT
4-Methyl-2-pentanone	BRL	10		ug/L	173359	1	03/11/2013 14:00	YT
Acetone	BRL	50		ug/L	173359	1	03/11/2013 14:00	YT
Benzene	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
Bromodichloromethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
Bromoform	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
Bromomethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
Carbon disulfide	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
Carbon tetrachloride	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
Chlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
Chloroethane	BRL	10		ug/L	173359	1	03/11/2013 14:00	YT
Chloroform	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
Chloromethane	BRL	10		ug/L	173359	1	03/11/2013 14:00	YT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
Cyclohexane	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
Dibromochloromethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
Dichlorodifluoromethane	BRL	10		ug/L	173359	1	03/11/2013 14:00	YT
Ethylbenzene	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
Freon-113	BRL	10		ug/L	173359	1	03/11/2013 14:00	YT
Isopropylbenzene	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
m,p-Xylene	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
Methyl acetate	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 14-Mar-13

<b>Client:</b> Peachtree Environmental	<b>Client Sample ID:</b> HRE-0313-MW6
<b>Project Name:</b> Hull/Former Loef	<b>Collection Date:</b> 3/7/2013 9:30:00 AM
<b>Lab ID:</b> 1303727-001	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Methylcyclohexane	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
Methylene chloride	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
o-Xylene	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
Styrene	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
Tetrachloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
Toluene	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
Trichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
Trichlorofluoromethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:00	YT
Vinyl chloride	BRL	2.0		ug/L	173359	1	03/11/2013 14:00	YT
Surr: 4-Bromofluorobenzene	87.4	64.6-123		%REC	173359	1	03/11/2013 14:00	YT
Surr: Dibromofluoromethane	99.1	76.6-133		%REC	173359	1	03/11/2013 14:00	YT
Surr: Toluene-d8	94.7	77.8-120		%REC	173359	1	03/11/2013 14:00	YT
<b>Sulfide by SW9030B/9034</b>					<b>(SW9030B)</b>			
Sulfide	BRL	2.00		mg/L	173463	1	03/13/2013 12:50	AS
<b>ION SCAN SW9056A</b>								
Chloride	5.4	1.0		mg/L	R239997	1	03/08/2013 15:30	GR
Nitrate	0.42	0.25		mg/L	R239997	1	03/08/2013 15:30	GR
Sulfate	1.2	1.0		mg/L	R239997	1	03/08/2013 15:30	GR
<b>GC Analysis of Gaseous Samples SOP-RSK 175</b>					<b>(RSK175)</b>			
Ethane	BRL	9		ug/L	173360	1	03/11/2013 15:45	SH
Ethylene	BRL	7		ug/L	173360	1	03/11/2013 15:45	SH
Methane	BRL	4		ug/L	173360	1	03/11/2013 15:45	SH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 14-Mar-13

<b>Client:</b> Peachtree Environmental	<b>Client Sample ID:</b> HRE-0313-MW7A
<b>Project Name:</b> Hull/Former Loef	<b>Collection Date:</b> 3/8/2013 10:30:00 AM
<b>Lab ID:</b> 1303727-002	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
1,1-Dichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
1,1-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
1,2-Dibromoethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
1,2-Dichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
1,2-Dichloropropane	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
2-Butanone	BRL	50		ug/L	173359	1	03/11/2013 14:30	YT
2-Hexanone	BRL	10		ug/L	173359	1	03/11/2013 14:30	YT
4-Methyl-2-pentanone	BRL	10		ug/L	173359	1	03/11/2013 14:30	YT
Acetone	BRL	50		ug/L	173359	1	03/11/2013 14:30	YT
Benzene	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
Bromodichloromethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
Bromoform	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
Bromomethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
Carbon disulfide	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
Carbon tetrachloride	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
Chlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
Chloroethane	BRL	10		ug/L	173359	1	03/11/2013 14:30	YT
Chloroform	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
Chloromethane	BRL	10		ug/L	173359	1	03/11/2013 14:30	YT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
Cyclohexane	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
Dibromochloromethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
Dichlorodifluoromethane	BRL	10		ug/L	173359	1	03/11/2013 14:30	YT
Ethylbenzene	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
Freon-113	BRL	10		ug/L	173359	1	03/11/2013 14:30	YT
Isopropylbenzene	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
m,p-Xylene	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
Methyl acetate	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
Methylcyclohexane	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
Methylene chloride	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
o-Xylene	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 14-Mar-13

<b>Client:</b> Peachtree Environmental	<b>Client Sample ID:</b> HRE-0313-MW7A
<b>Project Name:</b> Hull/Former Loef	<b>Collection Date:</b> 3/8/2013 10:30:00 AM
<b>Lab ID:</b> 1303727-002	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
Tetrachloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
Toluene	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
Trichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
Trichlorofluoromethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:30	YT
Vinyl chloride	BRL	2.0		ug/L	173359	1	03/11/2013 14:30	YT
Surr: 4-Bromofluorobenzene	90.5	64.6-123		%REC	173359	1	03/11/2013 14:30	YT
Surr: Dibromofluoromethane	94.4	76.6-133		%REC	173359	1	03/11/2013 14:30	YT
Surr: Toluene-d8	92.6	77.8-120		%REC	173359	1	03/11/2013 14:30	YT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 14-Mar-13

<b>Client:</b> Peachtree Environmental	<b>Client Sample ID:</b> HRE-0313-MW8A
<b>Project Name:</b> Hull/Former Loef	<b>Collection Date:</b> 3/8/2013 10:15:00 AM
<b>Lab ID:</b> 1303727-003	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
1,1-Dichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
1,1-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
1,2-Dibromoethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
1,2-Dichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
1,2-Dichloropropane	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
2-Butanone	BRL	50		ug/L	173359	1	03/11/2013 14:59	YT
2-Hexanone	BRL	10		ug/L	173359	1	03/11/2013 14:59	YT
4-Methyl-2-pentanone	BRL	10		ug/L	173359	1	03/11/2013 14:59	YT
Acetone	BRL	50		ug/L	173359	1	03/11/2013 14:59	YT
Benzene	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
Bromodichloromethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
Bromoform	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
Bromomethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
Carbon disulfide	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
Carbon tetrachloride	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
Chlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
Chloroethane	BRL	10		ug/L	173359	1	03/11/2013 14:59	YT
Chloroform	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
Chloromethane	BRL	10		ug/L	173359	1	03/11/2013 14:59	YT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
Cyclohexane	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
Dibromochloromethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
Dichlorodifluoromethane	BRL	10		ug/L	173359	1	03/11/2013 14:59	YT
Ethylbenzene	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
Freon-113	BRL	10		ug/L	173359	1	03/11/2013 14:59	YT
Isopropylbenzene	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
m,p-Xylene	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
Methyl acetate	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
Methylcyclohexane	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
Methylene chloride	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
o-Xylene	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 14-Mar-13

<b>Client:</b> Peachtree Environmental	<b>Client Sample ID:</b> HRE-0313-MW8A
<b>Project Name:</b> Hull/Former Loef	<b>Collection Date:</b> 3/8/2013 10:15:00 AM
<b>Lab ID:</b> 1303727-003	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
Tetrachloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
Toluene	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
Trichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
Trichlorofluoromethane	BRL	5.0		ug/L	173359	1	03/11/2013 14:59	YT
Vinyl chloride	BRL	2.0		ug/L	173359	1	03/11/2013 14:59	YT
Surr: 4-Bromofluorobenzene	95.1	64.6-123		%REC	173359	1	03/11/2013 14:59	YT
Surr: Dibromofluoromethane	102	76.6-133		%REC	173359	1	03/11/2013 14:59	YT
Surr: Toluene-d8	98.3	77.8-120		%REC	173359	1	03/11/2013 14:59	YT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 14-Mar-13

<b>Client:</b> Peachtree Environmental	<b>Client Sample ID:</b> HRE-0313-MW9A
<b>Project Name:</b> Hull/Former Loef	<b>Collection Date:</b> 3/8/2013 10:00:00 AM
<b>Lab ID:</b> 1303727-004	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
1,1-Dichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
1,1-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
1,2-Dibromoethane	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
1,2-Dichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
1,2-Dichloropropane	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
2-Butanone	BRL	50		ug/L	173359	1	03/11/2013 15:28	YT
2-Hexanone	BRL	10		ug/L	173359	1	03/11/2013 15:28	YT
4-Methyl-2-pentanone	BRL	10		ug/L	173359	1	03/11/2013 15:28	YT
Acetone	BRL	50		ug/L	173359	1	03/11/2013 15:28	YT
Benzene	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
Bromodichloromethane	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
Bromoform	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
Bromomethane	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
Carbon disulfide	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
Carbon tetrachloride	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
Chlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
Chloroethane	BRL	10		ug/L	173359	1	03/11/2013 15:28	YT
Chloroform	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
Chloromethane	BRL	10		ug/L	173359	1	03/11/2013 15:28	YT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
Cyclohexane	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
Dibromochloromethane	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
Dichlorodifluoromethane	BRL	10		ug/L	173359	1	03/11/2013 15:28	YT
Ethylbenzene	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
Freon-113	BRL	10		ug/L	173359	1	03/11/2013 15:28	YT
Isopropylbenzene	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
m,p-Xylene	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
Methyl acetate	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
Methylcyclohexane	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
Methylene chloride	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
o-Xylene	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 14-Mar-13

<b>Client:</b> Peachtree Environmental	<b>Client Sample ID:</b> HRE-0313-MW9A
<b>Project Name:</b> Hull/Former Loef	<b>Collection Date:</b> 3/8/2013 10:00:00 AM
<b>Lab ID:</b> 1303727-004	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
Tetrachloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
Toluene	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
Trichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
Trichlorofluoromethane	BRL	5.0		ug/L	173359	1	03/11/2013 15:28	YT
Vinyl chloride	BRL	2.0		ug/L	173359	1	03/11/2013 15:28	YT
Surr: 4-Bromofluorobenzene	87.1	64.6-123		%REC	173359	1	03/11/2013 15:28	YT
Surr: Dibromofluoromethane	102	76.6-133		%REC	173359	1	03/11/2013 15:28	YT
Surr: Toluene-d8	96.2	77.8-120		%REC	173359	1	03/11/2013 15:28	YT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 14-Mar-13

<b>Client:</b> Peachtree Environmental	<b>Client Sample ID:</b> HRE-0313-MW12
<b>Project Name:</b> Hull/Former Loef	<b>Collection Date:</b> 3/7/2013 4:00:00 PM
<b>Lab ID:</b> 1303727-005	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
1,1-Dichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
1,1-Dichloroethene	30	5.0		ug/L	173359	1	03/11/2013 16:56	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
1,2-Dibromoethane	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
1,2-Dichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
1,2-Dichloropropane	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
2-Butanone	BRL	50		ug/L	173359	1	03/11/2013 16:56	YT
2-Hexanone	BRL	10		ug/L	173359	1	03/11/2013 16:56	YT
4-Methyl-2-pentanone	BRL	10		ug/L	173359	1	03/11/2013 16:56	YT
Acetone	BRL	50		ug/L	173359	1	03/11/2013 16:56	YT
Benzene	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
Bromodichloromethane	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
Bromoform	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
Bromomethane	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
Carbon disulfide	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
Carbon tetrachloride	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
Chlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
Chloroethane	BRL	10		ug/L	173359	1	03/11/2013 16:56	YT
Chloroform	28	5.0		ug/L	173359	1	03/11/2013 16:56	YT
Chloromethane	BRL	10		ug/L	173359	1	03/11/2013 16:56	YT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
Cyclohexane	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
Dibromochloromethane	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
Dichlorodifluoromethane	BRL	10		ug/L	173359	1	03/11/2013 16:56	YT
Ethylbenzene	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
Freon-113	BRL	10		ug/L	173359	1	03/11/2013 16:56	YT
Isopropylbenzene	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
m,p-Xylene	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
Methyl acetate	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
Methylcyclohexane	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
Methylene chloride	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
o-Xylene	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 14-Mar-13

<b>Client:</b> Peachtree Environmental	<b>Client Sample ID:</b> HRE-0313-MW12
<b>Project Name:</b> Hull/Former Loef	<b>Collection Date:</b> 3/7/2013 4:00:00 PM
<b>Lab ID:</b> 1303727-005	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5030B)</b>				
Styrene	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
Tetrachloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
Toluene	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
Trichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
Trichlorofluoromethane	BRL	5.0		ug/L	173359	1	03/11/2013 16:56	YT
Vinyl chloride	BRL	2.0		ug/L	173359	1	03/11/2013 16:56	YT
Surr: 4-Bromofluorobenzene	87.4	64.6-123		%REC	173359	1	03/11/2013 16:56	YT
Surr: Dibromofluoromethane	106	76.6-133		%REC	173359	1	03/11/2013 16:56	YT
Surr: Toluene-d8	97.2	77.8-120		%REC	173359	1	03/11/2013 16:56	YT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 14-Mar-13

<b>Client:</b> Peachtree Environmental	<b>Client Sample ID:</b> HRE-0313-MW13
<b>Project Name:</b> Hull/Former Loef	<b>Collection Date:</b> 3/7/2013 2:45:00 PM
<b>Lab ID:</b> 1303727-006	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
1,1-Dichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
1,1-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
1,2-Dibromoethane	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
1,2-Dichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
1,2-Dichloropropane	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
2-Butanone	BRL	50		ug/L	173359	1	03/11/2013 17:34	YT
2-Hexanone	BRL	10		ug/L	173359	1	03/11/2013 17:34	YT
4-Methyl-2-pentanone	BRL	10		ug/L	173359	1	03/11/2013 17:34	YT
Acetone	BRL	50		ug/L	173359	1	03/11/2013 17:34	YT
Benzene	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
Bromodichloromethane	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
Bromoform	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
Bromomethane	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
Carbon disulfide	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
Carbon tetrachloride	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
Chlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
Chloroethane	BRL	10		ug/L	173359	1	03/11/2013 17:34	YT
Chloroform	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
Chloromethane	BRL	10		ug/L	173359	1	03/11/2013 17:34	YT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
Cyclohexane	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
Dibromochloromethane	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
Dichlorodifluoromethane	BRL	10		ug/L	173359	1	03/11/2013 17:34	YT
Ethylbenzene	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
Freon-113	BRL	10		ug/L	173359	1	03/11/2013 17:34	YT
Isopropylbenzene	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
m,p-Xylene	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
Methyl acetate	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
Methylcyclohexane	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
Methylene chloride	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
o-Xylene	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 14-Mar-13

<b>Client:</b> Peachtree Environmental	<b>Client Sample ID:</b> HRE-0313-MW13
<b>Project Name:</b> Hull/Former Loef	<b>Collection Date:</b> 3/7/2013 2:45:00 PM
<b>Lab ID:</b> 1303727-006	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5030B)</b>				
Styrene	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
Tetrachloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
Toluene	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
Trichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
Trichlorofluoromethane	BRL	5.0		ug/L	173359	1	03/11/2013 17:34	YT
Vinyl chloride	BRL	2.0		ug/L	173359	1	03/11/2013 17:34	YT
Surr: 4-Bromofluorobenzene	86.8	64.6-123		%REC	173359	1	03/11/2013 17:34	YT
Surr: Dibromofluoromethane	103	76.6-133		%REC	173359	1	03/11/2013 17:34	YT
Surr: Toluene-d8	97.3	77.8-120		%REC	173359	1	03/11/2013 17:34	YT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 14-Mar-13

<b>Client:</b> Peachtree Environmental	<b>Client Sample ID:</b> HRE-0313-MW10
<b>Project Name:</b> Hull/Former Loef	<b>Collection Date:</b> 3/7/2013 11:00:00 AM
<b>Lab ID:</b> 1303727-007	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
1,1-Dichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
1,1-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
1,2-Dibromoethane	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
1,2-Dichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
1,2-Dichloropropane	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
2-Butanone	BRL	50		ug/L	173359	1	03/11/2013 18:03	YT
2-Hexanone	BRL	10		ug/L	173359	1	03/11/2013 18:03	YT
4-Methyl-2-pentanone	BRL	10		ug/L	173359	1	03/11/2013 18:03	YT
Acetone	BRL	50		ug/L	173359	1	03/11/2013 18:03	YT
Benzene	5.3	5.0		ug/L	173359	1	03/11/2013 18:03	YT
Bromodichloromethane	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
Bromoform	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
Bromomethane	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
Carbon disulfide	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
Carbon tetrachloride	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
Chlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
Chloroethane	BRL	10		ug/L	173359	1	03/11/2013 18:03	YT
Chloroform	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
Chloromethane	BRL	10		ug/L	173359	1	03/11/2013 18:03	YT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
Cyclohexane	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
Dibromochloromethane	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
Dichlorodifluoromethane	BRL	10		ug/L	173359	1	03/11/2013 18:03	YT
Ethylbenzene	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
Freon-113	BRL	10		ug/L	173359	1	03/11/2013 18:03	YT
Isopropylbenzene	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
m,p-Xylene	22	5.0		ug/L	173359	1	03/11/2013 18:03	YT
Methyl acetate	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
Methylcyclohexane	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
Methylene chloride	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
o-Xylene	12	5.0		ug/L	173359	1	03/11/2013 18:03	YT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 14-Mar-13

<b>Client:</b> Peachtree Environmental	<b>Client Sample ID:</b> HRE-0313-MW10
<b>Project Name:</b> Hull/Former Loef	<b>Collection Date:</b> 3/7/2013 11:00:00 AM
<b>Lab ID:</b> 1303727-007	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
Tetrachloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
Toluene	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
Trichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
Trichlorofluoromethane	BRL	5.0		ug/L	173359	1	03/11/2013 18:03	YT
Vinyl chloride	BRL	2.0		ug/L	173359	1	03/11/2013 18:03	YT
Surr: 4-Bromofluorobenzene	96.4	64.6-123		%REC	173359	1	03/11/2013 18:03	YT
Surr: Dibromofluoromethane	96.3	76.6-133		%REC	173359	1	03/11/2013 18:03	YT
Surr: Toluene-d8	95.7	77.8-120		%REC	173359	1	03/11/2013 18:03	YT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 14-Mar-13

<b>Client:</b> Peachtree Environmental	<b>Client Sample ID:</b> HRE-0313-MW4A
<b>Project Name:</b> Hull/Former Loef	<b>Collection Date:</b> 3/7/2013 12:15:00 PM
<b>Lab ID:</b> 1303727-008	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
1,1-Dichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
1,1-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
1,2-Dibromoethane	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
1,2-Dichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
1,2-Dichloropropane	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
2-Butanone	BRL	50		ug/L	173359	1	03/11/2013 18:32	YT
2-Hexanone	BRL	10		ug/L	173359	1	03/11/2013 18:32	YT
4-Methyl-2-pentanone	BRL	10		ug/L	173359	1	03/11/2013 18:32	YT
Acetone	BRL	50		ug/L	173359	1	03/11/2013 18:32	YT
Benzene	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
Bromodichloromethane	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
Bromoform	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
Bromomethane	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
Carbon disulfide	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
Carbon tetrachloride	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
Chlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
Chloroethane	BRL	10		ug/L	173359	1	03/11/2013 18:32	YT
Chloroform	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
Chloromethane	BRL	10		ug/L	173359	1	03/11/2013 18:32	YT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
Cyclohexane	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
Dibromochloromethane	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
Dichlorodifluoromethane	BRL	10		ug/L	173359	1	03/11/2013 18:32	YT
Ethylbenzene	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
Freon-113	BRL	10		ug/L	173359	1	03/11/2013 18:32	YT
Isopropylbenzene	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
m,p-Xylene	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
Methyl acetate	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
Methylcyclohexane	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
Methylene chloride	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
o-Xylene	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 14-Mar-13

<b>Client:</b> Peachtree Environmental	<b>Client Sample ID:</b> HRE-0313-MW4A
<b>Project Name:</b> Hull/Former Loef	<b>Collection Date:</b> 3/7/2013 12:15:00 PM
<b>Lab ID:</b> 1303727-008	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
Tetrachloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
Toluene	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
Trichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
Trichlorofluoromethane	BRL	5.0		ug/L	173359	1	03/11/2013 18:32	YT
Vinyl chloride	BRL	2.0		ug/L	173359	1	03/11/2013 18:32	YT
Surr: 4-Bromofluorobenzene	89.4	64.6-123		%REC	173359	1	03/11/2013 18:32	YT
Surr: Dibromofluoromethane	98.6	76.6-133		%REC	173359	1	03/11/2013 18:32	YT
Surr: Toluene-d8	95.6	77.8-120		%REC	173359	1	03/11/2013 18:32	YT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 14-Mar-13

<b>Client:</b> Peachtree Environmental	<b>Client Sample ID:</b> HRE-0313-MW11
<b>Project Name:</b> Hull/Former Loef	<b>Collection Date:</b> 3/8/2013 9:30:00 AM
<b>Lab ID:</b> 1303727-009	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
1,1-Dichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
1,1-Dichloroethene	8.5	5.0		ug/L	173359	1	03/11/2013 19:01	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
1,2-Dibromoethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
1,2-Dichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
1,2-Dichloropropane	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
2-Butanone	BRL	50		ug/L	173359	1	03/11/2013 19:01	YT
2-Hexanone	BRL	10		ug/L	173359	1	03/11/2013 19:01	YT
4-Methyl-2-pentanone	BRL	10		ug/L	173359	1	03/11/2013 19:01	YT
Acetone	BRL	50		ug/L	173359	1	03/11/2013 19:01	YT
Benzene	16	5.0		ug/L	173359	1	03/11/2013 19:01	YT
Bromodichloromethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
Bromoform	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
Bromomethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
Carbon disulfide	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
Carbon tetrachloride	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
Chlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
Chloroethane	BRL	10		ug/L	173359	1	03/11/2013 19:01	YT
Chloroform	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
Chloromethane	BRL	10		ug/L	173359	1	03/11/2013 19:01	YT
cis-1,2-Dichloroethene	12	5.0		ug/L	173359	1	03/11/2013 19:01	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
Cyclohexane	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
Dibromochloromethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
Dichlorodifluoromethane	BRL	10		ug/L	173359	1	03/11/2013 19:01	YT
Ethylbenzene	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
Freon-113	BRL	10		ug/L	173359	1	03/11/2013 19:01	YT
Isopropylbenzene	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
m,p-Xylene	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
Methyl acetate	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
Methylcyclohexane	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
Methylene chloride	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
o-Xylene	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 14-Mar-13

<b>Client:</b> Peachtree Environmental	<b>Client Sample ID:</b> HRE-0313-MW11
<b>Project Name:</b> Hull/Former Loef	<b>Collection Date:</b> 3/8/2013 9:30:00 AM
<b>Lab ID:</b> 1303727-009	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5030B)</b>						
Styrene	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
Tetrachloroethene	10	5.0		ug/L	173359	1	03/11/2013 19:01	YT
Toluene	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
Trichloroethene	1300	50		ug/L	173359	10	03/12/2013 15:29	YT
Trichlorofluoromethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:01	YT
Vinyl chloride	BRL	2.0		ug/L	173359	1	03/11/2013 19:01	YT
Surr: 4-Bromofluorobenzene	87	64.6-123		%REC	173359	10	03/12/2013 15:29	YT
Surr: 4-Bromofluorobenzene	90.8	64.6-123		%REC	173359	1	03/11/2013 19:01	YT
Surr: Dibromofluoromethane	101	76.6-133		%REC	173359	1	03/11/2013 19:01	YT
Surr: Dibromofluoromethane	103	76.6-133		%REC	173359	10	03/12/2013 15:29	YT
Surr: Toluene-d8	95.9	77.8-120		%REC	173359	1	03/11/2013 19:01	YT
Surr: Toluene-d8	97.5	77.8-120		%REC	173359	10	03/12/2013 15:29	YT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 14-Mar-13

<b>Client:</b> Peachtree Environmental	<b>Client Sample ID:</b> HRE-0313-MW14
<b>Project Name:</b> Hull/Former Loef	<b>Collection Date:</b> 3/7/2013 3:00:00 PM
<b>Lab ID:</b> 1303727-010	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
1,1-Dichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
1,1-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
1,2-Dibromoethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
1,2-Dichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
1,2-Dichloropropane	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
2-Butanone	BRL	50		ug/L	173359	1	03/11/2013 19:31	YT
2-Hexanone	BRL	10		ug/L	173359	1	03/11/2013 19:31	YT
4-Methyl-2-pentanone	BRL	10		ug/L	173359	1	03/11/2013 19:31	YT
Acetone	BRL	50		ug/L	173359	1	03/11/2013 19:31	YT
Benzene	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
Bromodichloromethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
Bromoform	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
Bromomethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
Carbon disulfide	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
Carbon tetrachloride	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
Chlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
Chloroethane	BRL	10		ug/L	173359	1	03/11/2013 19:31	YT
Chloroform	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
Chloromethane	BRL	10		ug/L	173359	1	03/11/2013 19:31	YT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
Cyclohexane	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
Dibromochloromethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
Dichlorodifluoromethane	BRL	10		ug/L	173359	1	03/11/2013 19:31	YT
Ethylbenzene	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
Freon-113	BRL	10		ug/L	173359	1	03/11/2013 19:31	YT
Isopropylbenzene	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
m,p-Xylene	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
Methyl acetate	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
Methyl tert-butyl ether	5.6	5.0		ug/L	173359	1	03/11/2013 19:31	YT
Methylcyclohexane	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
Methylene chloride	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
o-Xylene	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 14-Mar-13

<b>Client:</b> Peachtree Environmental	<b>Client Sample ID:</b> HRE-0313-MW14
<b>Project Name:</b> Hull/Former Loef	<b>Collection Date:</b> 3/7/2013 3:00:00 PM
<b>Lab ID:</b> 1303727-010	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
Tetrachloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
Toluene	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
Trichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
Trichlorofluoromethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:31	YT
Vinyl chloride	BRL	2.0		ug/L	173359	1	03/11/2013 19:31	YT
Surr: 4-Bromofluorobenzene	89.8	64.6-123		%REC	173359	1	03/11/2013 19:31	YT
Surr: Dibromofluoromethane	97	76.6-133		%REC	173359	1	03/11/2013 19:31	YT
Surr: Toluene-d8	96.3	77.8-120		%REC	173359	1	03/11/2013 19:31	YT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 14-Mar-13

<b>Client:</b> Peachtree Environmental	<b>Client Sample ID:</b> HRE-0313-MW3A
<b>Project Name:</b> Hull/Former Loef	<b>Collection Date:</b> 3/7/2013 1:30:00 PM
<b>Lab ID:</b> 1303727-011	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
1,1-Dichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
1,1-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
1,2-Dibromoethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
1,2-Dichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
1,2-Dichloropropane	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
2-Butanone	BRL	50		ug/L	173359	1	03/11/2013 19:59	YT
2-Hexanone	BRL	10		ug/L	173359	1	03/11/2013 19:59	YT
4-Methyl-2-pentanone	BRL	10		ug/L	173359	1	03/11/2013 19:59	YT
Acetone	BRL	50		ug/L	173359	1	03/11/2013 19:59	YT
Benzene	14	5.0		ug/L	173359	1	03/11/2013 19:59	YT
Bromodichloromethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
Bromoform	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
Bromomethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
Carbon disulfide	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
Carbon tetrachloride	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
Chlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
Chloroethane	BRL	10		ug/L	173359	1	03/11/2013 19:59	YT
Chloroform	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
Chloromethane	BRL	10		ug/L	173359	1	03/11/2013 19:59	YT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
Cyclohexane	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
Dibromochloromethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
Dichlorodifluoromethane	BRL	10		ug/L	173359	1	03/11/2013 19:59	YT
Ethylbenzene	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
Freon-113	BRL	10		ug/L	173359	1	03/11/2013 19:59	YT
Isopropylbenzene	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
m,p-Xylene	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
Methyl acetate	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
Methylcyclohexane	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
Methylene chloride	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
o-Xylene	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 14-Mar-13

<b>Client:</b> Peachtree Environmental	<b>Client Sample ID:</b> HRE-0313-MW3A
<b>Project Name:</b> Hull/Former Loef	<b>Collection Date:</b> 3/7/2013 1:30:00 PM
<b>Lab ID:</b> 1303727-011	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
Tetrachloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
Toluene	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
Trichloroethene	9.6	5.0		ug/L	173359	1	03/11/2013 19:59	YT
Trichlorofluoromethane	BRL	5.0		ug/L	173359	1	03/11/2013 19:59	YT
Vinyl chloride	BRL	2.0		ug/L	173359	1	03/11/2013 19:59	YT
Surr: 4-Bromofluorobenzene	89.1	64.6-123		%REC	173359	1	03/11/2013 19:59	YT
Surr: Dibromofluoromethane	102	76.6-133		%REC	173359	1	03/11/2013 19:59	YT
Surr: Toluene-d8	97.3	77.8-120		%REC	173359	1	03/11/2013 19:59	YT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> Peachtree Environmental	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> Hull/Former Loef	<b>Collection Date:</b> 3/7/2013
<b>Lab ID:</b> 1303727-012	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
1,1-Dichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
1,1-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
1,2-Dibromoethane	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
1,2-Dichloroethane	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
1,2-Dichloropropane	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
2-Butanone	BRL	50		ug/L	173359	1	03/11/2013 20:29	YT
2-Hexanone	BRL	10		ug/L	173359	1	03/11/2013 20:29	YT
4-Methyl-2-pentanone	BRL	10		ug/L	173359	1	03/11/2013 20:29	YT
Acetone	BRL	50		ug/L	173359	1	03/11/2013 20:29	YT
Benzene	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
Bromodichloromethane	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
Bromoform	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
Bromomethane	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
Carbon disulfide	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
Carbon tetrachloride	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
Chlorobenzene	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
Chloroethane	BRL	10		ug/L	173359	1	03/11/2013 20:29	YT
Chloroform	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
Chloromethane	BRL	10		ug/L	173359	1	03/11/2013 20:29	YT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
Cyclohexane	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
Dibromochloromethane	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
Dichlorodifluoromethane	BRL	10		ug/L	173359	1	03/11/2013 20:29	YT
Ethylbenzene	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
Freon-113	BRL	10		ug/L	173359	1	03/11/2013 20:29	YT
Isopropylbenzene	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
m,p-Xylene	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
Methyl acetate	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
Methylcyclohexane	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
Methylene chloride	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
o-Xylene	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 14-Mar-13

<b>Client:</b> Peachtree Environmental	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> Hull/Former Loef	<b>Collection Date:</b> 3/7/2013
<b>Lab ID:</b> 1303727-012	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5030B)</b>				
Styrene	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
Tetrachloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
Toluene	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
Trichloroethene	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
Trichlorofluoromethane	BRL	5.0		ug/L	173359	1	03/11/2013 20:29	YT
Vinyl chloride	BRL	2.0		ug/L	173359	1	03/11/2013 20:29	YT
Surr: 4-Bromofluorobenzene	90.1	64.6-123		%REC	173359	1	03/11/2013 20:29	YT
Surr: Dibromofluoromethane	101	76.6-133		%REC	173359	1	03/11/2013 20:29	YT
Surr: Toluene-d8	96.7	77.8-120		%REC	173359	1	03/11/2013 20:29	YT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Peachtree Em

Work Order Number 1303727

Checklist completed by [Signature] Date 3/8/13

Carrier name: FedEx  UPS  Courier  Client  US Mail  Other

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Container/Temp Blank temperature in compliance? (4°C±2)\* Yes  No

Cooler #1 3.1° Cooler #2 \_\_\_\_\_ Cooler #3 \_\_\_\_\_ Cooler #4 \_\_\_\_\_ Cooler#5 \_\_\_\_\_ Cooler #6 \_\_\_\_\_

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Was TAT marked on the COC? Yes  No

Proceed with Standard TAT as per project history? Yes  No  Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No

Water - pH acceptable upon receipt? Yes  No  Not Applicable

Adjusted? \_\_\_\_\_ Checked by [Signature]

Sample Condition: Good  Other(Explain) \_\_\_\_\_

(For diffusive samples or AIHA lead) Is a known blank included? Yes  No

\* Samples do not have to comply with the given range for certain parameters.

Client: Peachtree Environmental  
 Project: Hull/Former Loef  
 Lab Order: 1303727

**Dates Report**

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1303727-001A	HRE-0313-MW6	3/7/2013 9:30:00AM	Aqueous	TCL VOLATILE ORGANICS		03/11/2013	03/11/2013
1303727-001B	HRE-0313-MW6	3/7/2013 9:30:00AM	Aqueous	GC Analysis of Gaseous Samples		03/11/2013	03/11/2013
1303727-001C	HRE-0313-MW6	3/7/2013 9:30:00AM	Aqueous	Total Organic Carbon (TOC)			03/08/2013
1303727-001D	HRE-0313-MW6	3/7/2013 9:30:00AM	Aqueous	Sulfide by SW9030/9034		03/13/2013	03/13/2013
1303727-001E	HRE-0313-MW6	3/7/2013 9:30:00AM	Aqueous	ION SCAN			03/08/2013
1303727-002A	HRE-0313-MW7A	3/8/2013 10:30:00AM	Aqueous	TCL VOLATILE ORGANICS		03/11/2013	03/11/2013
1303727-003A	HRE-0313-MW8A	3/8/2013 10:15:00AM	Aqueous	TCL VOLATILE ORGANICS		03/11/2013	03/11/2013
1303727-004A	HRE-0313-MW9A	3/8/2013 10:00:00AM	Aqueous	TCL VOLATILE ORGANICS		03/11/2013	03/11/2013
1303727-005A	HRE-0313-MW12	3/7/2013 4:00:00PM	Aqueous	TCL VOLATILE ORGANICS		03/11/2013	03/11/2013
1303727-006A	HRE-0313-MW13	3/7/2013 2:45:00PM	Aqueous	TCL VOLATILE ORGANICS		03/11/2013	03/11/2013
1303727-007A	HRE-0313-MW10	3/7/2013 11:00:00AM	Aqueous	TCL VOLATILE ORGANICS		03/11/2013	03/11/2013
1303727-008A	HRE-0313-MW4A	3/7/2013 12:15:00PM	Aqueous	TCL VOLATILE ORGANICS		03/11/2013	03/11/2013
1303727-009A	HRE-0313-MW11	3/8/2013 9:30:00AM	Aqueous	TCL VOLATILE ORGANICS		03/11/2013	03/11/2013
1303727-009A	HRE-0313-MW11	3/8/2013 9:30:00AM	Aqueous	TCL VOLATILE ORGANICS		03/11/2013	03/12/2013
1303727-010A	HRE-0313-MW14	3/7/2013 3:00:00PM	Aqueous	TCL VOLATILE ORGANICS		03/11/2013	03/11/2013
1303727-011A	HRE-0313-MW3A	3/7/2013 1:30:00PM	Aqueous	TCL VOLATILE ORGANICS		03/11/2013	03/11/2013
1303727-012A	TRIP BLANK	3/7/2013 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		03/11/2013	03/11/2013

Client: Peachtree Environmental  
 Project Name: Hull/Former Loef  
 Workorder: 1303727

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 173359

Sample ID: <b>MB-173359</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>03/11/2013</b>	Run No: <b>239817</b>							
Sample Type: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>173359</b>	Analysis Date: <b>03/11/2013</b>	Seq No: <b>5019862</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	0
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	0
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	0
Acetone	BRL	50	0	0	0	0	0	0	0	0	0
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	0
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	0
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	0

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Peachtree Environmental  
**Project Name:** Hull/Former Loef  
**Workorder:** 1303727

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 173359**

Sample ID: <b>MB-173359</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>03/11/2013</b>	Run No: <b>239817</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>173359</b>	Analysis Date: <b>03/11/2013</b>	Seq No: <b>5019862</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	45.21	0	50	0	90.4	64.6	123	0	0	0	
Surr: Dibromofluoromethane	49.32	0	50	0	98.6	76.6	133	0	0	0	
Surr: Toluene-d8	47.11	0	50	0	94.2	77.8	120	0	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Peachtree Environmental  
**Project Name:** Hull/Former Loef  
**Workorder:** 1303727

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 173359**

Sample ID: <b>MB-173359</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>03/11/2013</b>	Run No: <b>239817</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260B</b>	BatchID: <b>173359</b>	Analysis Date: <b>03/11/2013</b>	Seq No: <b>5019893</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2,3-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2,3-Trichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2,4-Trimethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloroethene, Total	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,3,5-Trimethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,3-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
2,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	0
2-Chloroethyl vinyl ether	BRL	5.0	0	0	0	0	0	0	0	0	0
2-Chlorotoluene	BRL	5.0	0	0	0	0	0	0	0	0	0
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	0
4-Chlorotoluene	BRL	5.0	0	0	0	0	0	0	0	0	0

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Peachtree Environmental  
**Project Name:** Hull/Former Loef  
**Workorder:** 1303727

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 173359**

Sample ID: <b>MB-173359</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>03/11/2013</b>	Run No: <b>239817</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260B</b>	BatchID: <b>173359</b>	Analysis Date: <b>03/11/2013</b>	Seq No: <b>5019893</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4-Isopropyltoluene	BRL	5.0	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	50	0	0	0	0	0	0	0	0	
Acrolein	BRL	20	0	0	0	0	0	0	0	0	
Acrylonitrile	BRL	5.0	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Bromobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Bromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Hexachlorobutadiene	BRL	5.0	0	0	0	0	0	0	0	0	
Iodomethane	BRL	10	0	0	0	0	0	0	0	0	

<b>Qualifiers:</b>	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

**Client:** Peachtree Environmental  
**Project Name:** Hull/Former Loef  
**Workorder:** 1303727

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 173359**

Sample ID: <b>MB-173359</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>03/11/2013</b>	Run No: <b>239817</b>
SampleType: <b>MBLK</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260B</b>	BatchID: <b>173359</b>	Analysis Date: <b>03/11/2013</b>	Seq No: <b>5019893</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
n-Butylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
n-Propylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Naphthalene	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
sec-Butylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
tert-Butylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,4-Dichloro-2-butene	BRL	10	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl acetate	BRL	10	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Xylenes, Total	BRL	5.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	45.21	0	50	0	90.4	64.6	123	0	0	0	
Surr: Dibromofluoromethane	49.32	0	50	0	98.6	76.6	133	0	0	0	
Surr: Toluene-d8	47.11	0	50	0	94.2	77.8	120	0	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Peachtree Environmental  
**Project Name:** Hull/Former Loef  
**Workorder:** 1303727

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 173359**

Sample ID: <b>LCS-173359</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>03/11/2013</b>	Run No: <b>239817</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>173359</b>	Analysis Date: <b>03/11/2013</b>	Seq No: <b>5019861</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	46.53	5.0	50	0	93.1	61.1	142	0	0	0	
Benzene	49.27	5.0	50	0	98.5	73.5	130	0	0	0	
Chlorobenzene	51.19	5.0	50	0	102	72.4	123	0	0	0	
Toluene	48.77	5.0	50	0	97.5	73.6	130	0	0	0	
Trichloroethene	46.78	5.0	50	0	93.6	70	135	0	0	0	
Surr: 4-Bromofluorobenzene	51.16	0	50	0	102	64.6	123	0	0	0	
Surr: Dibromofluoromethane	47.75	0	50	0	95.5	76.6	133	0	0	0	
Surr: Toluene-d8	48.20	0	50	0	96.4	77.8	120	0	0	0	

Sample ID: <b>LCS-173359</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>03/11/2013</b>	Run No: <b>239817</b>							
SampleType: <b>LCS</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260B</b>	BatchID: <b>173359</b>	Analysis Date: <b>03/11/2013</b>	Seq No: <b>5019891</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	46.53	5.0	50	0	93.1	61.1	142	0	0	0	
Benzene	49.27	5.0	50	0	98.5	73.5	130	0	0	0	
Chlorobenzene	51.19	5.0	50	0	102	72.4	123	0	0	0	
Toluene	48.77	5.0	50	0	97.5	73.6	130	0	0	0	
Trichloroethene	46.78	5.0	50	0	93.6	70	135	0	0	0	
Surr: 4-Bromofluorobenzene	51.16	0	50	0	102	64.6	123	0	0	0	
Surr: Dibromofluoromethane	47.75	0	50	0	95.5	76.6	133	0	0	0	
Surr: Toluene-d8	48.20	0	50	0	96.4	77.8	120	0	0	0	

Sample ID: <b>1303727-001AMS</b>	Client ID: <b>HRE-0313-MW6</b>	Units: <b>ug/L</b>	Prep Date: <b>03/11/2013</b>	Run No: <b>239817</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>173359</b>	Analysis Date: <b>03/11/2013</b>	Seq No: <b>5020539</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	55.54	5.0	50	0	111	60	168	0	0	0	
Benzene	53.77	5.0	50	0	108	66.6	148	0	0	0	

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** Peachtree Environmental  
**Project Name:** Hull/Former Loef  
**Workorder:** 1303727

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 173359**

Sample ID: <b>1303727-001AMS</b>	Client ID: <b>HRE-0313-MW6</b>	Units: <b>ug/L</b>	Prep Date: <b>03/11/2013</b>	Run No: <b>239817</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>173359</b>	Analysis Date: <b>03/11/2013</b>	Seq No: <b>5020539</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	52.70	5.0	50	0	105	71.9	135	0	0	0	
Toluene	53.25	5.0	50	0	106	68	149	0	0	0	
Trichloroethene	51.18	5.0	50	0	102	71.1	154	0	0	0	
Surr: 4-Bromofluorobenzene	54.03	0	50	0	108	64.6	123	0	0	0	
Surr: Dibromofluoromethane	53.16	0	50	0	106	76.6	133	0	0	0	
Surr: Toluene-d8	52.01	0	50	0	104	77.8	120	0	0	0	

Sample ID: <b>1303727-001AMS</b>	Client ID: <b>HRE-0313-MW6</b>	Units: <b>ug/L</b>	Prep Date: <b>03/11/2013</b>	Run No: <b>239817</b>							
SampleType: <b>MS</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260B</b>	BatchID: <b>173359</b>	Analysis Date: <b>03/11/2013</b>	Seq No: <b>5020705</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	55.54	5.0	50	0	111	60	168	0	0	0	
Benzene	53.77	5.0	50	0	108	66.6	148	0	0	0	
Chlorobenzene	52.70	5.0	50	0	105	71.9	135	0	0	0	
Toluene	53.25	5.0	50	0	106	68	149	0	0	0	
Trichloroethene	51.18	5.0	50	0	102	71.1	154	0	0	0	
Surr: 4-Bromofluorobenzene	54.03	0	50	0	108	64.6	123	0	0	0	
Surr: Dibromofluoromethane	53.16	0	50	0	106	76.6	133	0	0	0	
Surr: Toluene-d8	52.01	0	50	0	104	77.8	120	0	0	0	

Sample ID: <b>1303727-001AMSD</b>	Client ID: <b>HRE-0313-MW6</b>	Units: <b>ug/L</b>	Prep Date: <b>03/11/2013</b>	Run No: <b>239817</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>173359</b>	Analysis Date: <b>03/11/2013</b>	Seq No: <b>5020540</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	51.37	5.0	50	0	103	60	168	55.54	7.8	18.6	
Benzene	51.46	5.0	50	0	103	66.6	148	53.77	4.39	20	
Chlorobenzene	51.56	5.0	50	0	103	71.9	135	52.70	2.19	20	
Toluene	50.45	5.0	50	0	101	68	149	53.25	5.4	20	

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** Peachtree Environmental  
**Project Name:** Hull/Former Loef  
**Workorder:** 1303727

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 173359**

Sample ID: <b>1303727-001AMSD</b>	Client ID: <b>HRE-0313-MW6</b>	Units: <b>ug/L</b>	Prep Date: <b>03/11/2013</b>	Run No: <b>239817</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>173359</b>	Analysis Date: <b>03/11/2013</b>	Seq No: <b>5020540</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Trichloroethene	47.72	5.0	50	0	95.4	71.1	154	51.18	7	20	
Surr: 4-Bromofluorobenzene	53.87	0	50	0	108	64.6	123	54.03	0	0	
Surr: Dibromofluoromethane	50.97	0	50	0	102	76.6	133	53.16	0	0	
Surr: Toluene-d8	50.17	0	50	0	100	77.8	120	52.01	0	0	

Sample ID: <b>1303727-001AMSD</b>	Client ID: <b>HRE-0313-MW6</b>	Units: <b>ug/L</b>	Prep Date: <b>03/11/2013</b>	Run No: <b>239817</b>							
SampleType: <b>MSD</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260B</b>	BatchID: <b>173359</b>	Analysis Date: <b>03/11/2013</b>	Seq No: <b>5020709</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	51.37	5.0	50	0	103	60	168	55.54	7.8	18.6	
Benzene	51.46	5.0	50	0	103	66.6	148	53.77	4.39	20	
Chlorobenzene	51.56	5.0	50	0	103	71.9	135	52.70	2.19	20	
Toluene	50.45	5.0	50	0	101	68	149	53.25	5.4	20	
Trichloroethene	47.72	5.0	50	0	95.4	71.1	154	51.18	7	20	
Surr: 4-Bromofluorobenzene	53.87	0	50	0	108	64.6	123	54.03	0	0	
Surr: Dibromofluoromethane	50.97	0	50	0	102	76.6	133	53.16	0	0	
Surr: Toluene-d8	50.17	0	50	0	100	77.8	120	52.01	0	0	

<b>Qualifiers:</b>	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

**Client:** Peachtree Environmental  
**Project Name:** Hull/Former Loef  
**Workorder:** 1303727

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 173360**

Sample ID: <b>MB-173360</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>03/11/2013</b>	Run No: <b>239776</b>							
SampleType: <b>MBLK</b>	TestCode: <b>GC Analysis of Gaseous Samples SOP-RSK 175</b>	BatchID: <b>173360</b>	Analysis Date: <b>03/11/2013</b>	Seq No: <b>5020072</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	BRL	9	0	0	0	0	0	0	0	0	
Ethylene	BRL	7	0	0	0	0	0	0	0	0	
Methane	BRL	4	0	0	0	0	0	0	0	0	

Sample ID: <b>LCS-173360</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>03/11/2013</b>	Run No: <b>239776</b>							
SampleType: <b>LCS</b>	TestCode: <b>GC Analysis of Gaseous Samples SOP-RSK 175</b>	BatchID: <b>173360</b>	Analysis Date: <b>03/11/2013</b>	Seq No: <b>5020073</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	124.3	9	200	0	62.2	38.5	115	0	0	0	
Ethylene	82.41	7	200	0	41.2	25.7	115	0	0	0	
Methane	129.6	4	200	0	64.8	43.3	115	0	0	0	

Sample ID: <b>LCSD-173360</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>03/11/2013</b>	Run No: <b>239776</b>							
SampleType: <b>LCSD</b>	TestCode: <b>GC Analysis of Gaseous Samples SOP-RSK 175</b>	BatchID: <b>173360</b>	Analysis Date: <b>03/11/2013</b>	Seq No: <b>5020074</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	123.5	9	200	0	61.7	38.5	115	124.3	0.695	20	
Ethylene	81.75	7	200	0	40.9	25.7	115	82.41	0.807	20	
Methane	128.5	4	200	0	64.2	43.3	115	129.6	0.832	20	

Sample ID: <b>1303727-001BMS</b>	Client ID: <b>HRE-0313-MW6</b>	Units: <b>ug/L</b>	Prep Date: <b>03/11/2013</b>	Run No: <b>239776</b>							
SampleType: <b>MS</b>	TestCode: <b>GC Analysis of Gaseous Samples SOP-RSK 175</b>	BatchID: <b>173360</b>	Analysis Date: <b>03/11/2013</b>	Seq No: <b>5021074</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	120.9	9	200	0	60.4	38.9	115	0	0	0	
Ethylene	79.11	7	200	0	39.6	23.1	115	0	0	0	
Methane	127.3	4	200	0	63.7	38.4	115	0	0	0	

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Peachtree Environmental  
**Project Name:** Hull/Former Loef  
**Workorder:** 1303727

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 173360**

Sample ID: <b>1303727-001BMSD</b>	Client ID: <b>HRE-0313-MW6</b>	Units: <b>ug/L</b>	Prep Date: <b>03/11/2013</b>	Run No: <b>239776</b>
SampleType: <b>MSD</b>	TestCode: <b>GC Analysis of Gaseous Samples SOP-RSK 175</b>	BatchID: <b>173360</b>	Analysis Date: <b>03/11/2013</b>	Seq No: <b>5021075</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	122.8	9	200	0	61.4	38.9	115	120.9	1.58	20	
Ethylene	80.33	7	200	0	40.2	23.1	115	79.11	1.53	20	
Methane	128.3	4	200	0	64.1	38.4	115	127.3	0.752	20	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Peachtree Environmental  
**Project Name:** Hull/Former Loef  
**Workorder:** 1303727

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 173463**

Sample ID: <b>MB-173463</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>03/13/2013</b>	Run No: <b>240021</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Sulfide by SW9030B/9034</b>	BatchID: <b>173463</b>	Analysis Date: <b>03/13/2013</b>	Seq No: <b>5023741</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide BRL 2.00 0 0 0 0 0 0 0 0 0 0

Sample ID: <b>LCS-173463</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>03/13/2013</b>	Run No: <b>240021</b>							
SampleType: <b>LCS</b>	TestCode: <b>Sulfide by SW9030B/9034</b>	BatchID: <b>173463</b>	Analysis Date: <b>03/13/2013</b>	Seq No: <b>5023742</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 309.6 2.00 309.6 0 100 40 120 0 0 0 0

Sample ID: <b>1303727-001DMS</b>	Client ID: <b>HRE-0313-MW6</b>	Units: <b>mg/L</b>	Prep Date: <b>03/13/2013</b>	Run No: <b>240021</b>							
SampleType: <b>MS</b>	TestCode: <b>Sulfide by SW9030B/9034</b>	BatchID: <b>173463</b>	Analysis Date: <b>03/13/2013</b>	Seq No: <b>5023744</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 29.76 2.00 30.96 0 96.1 64.9 126 0 0 0 0

Sample ID: <b>1303727-001DMSD</b>	Client ID: <b>HRE-0313-MW6</b>	Units: <b>mg/L</b>	Prep Date: <b>03/13/2013</b>	Run No: <b>240021</b>							
SampleType: <b>MSD</b>	TestCode: <b>Sulfide by SW9030B/9034</b>	BatchID: <b>173463</b>	Analysis Date: <b>03/13/2013</b>	Seq No: <b>5023745</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 30.56 2.00 30.96 0 98.7 64.9 126 29.76 2.65 30

<b>Qualifiers:</b>	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

**Client:** Peachtree Environmental  
**Project Name:** Hull/Former Loef  
**Workorder:** 1303727

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: R239798**

Sample ID: <b>MB-R239798</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>239798</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Total Organic Carbon (TOC) SW9060A</b>	BatchID: <b>R239798</b>	Analysis Date: <b>03/08/2013</b>	Seq No: <b>5019474</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total      BRL      1.00      0      0      0      0      0      0      0      0      0

Sample ID: <b>LCS-R239798</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>239798</b>							
SampleType: <b>LCS</b>	TestCode: <b>Total Organic Carbon (TOC) SW9060A</b>	BatchID: <b>R239798</b>	Analysis Date: <b>03/08/2013</b>	Seq No: <b>5019471</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total      25.99      1.00      25      0      104      90      110      0      0      0

Sample ID: <b>1303440-0037MS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>239798</b>							
SampleType: <b>MS</b>	TestCode: <b>Total Organic Carbon (TOC) SW9060A</b>	BatchID: <b>R239798</b>	Analysis Date: <b>03/08/2013</b>	Seq No: <b>5019493</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total      27.52      1.00      25      1.856      103      80      120      0      0      0

Sample ID: <b>13034401-0037MSD</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>239798</b>							
SampleType: <b>MSD</b>	TestCode: <b>Total Organic Carbon (TOC) SW9060A</b>	BatchID: <b>R239798</b>	Analysis Date: <b>03/08/2013</b>	Seq No: <b>5019494</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total      28.16      1.00      25      1.856      105      80      120      27.52      2.3      20

**Qualifiers:**      >      Greater than Result value      <      Less than Result value      B      Analyte detected in the associated method blank  
 BRL      Below reporting limit      E      Estimated (value above quantitation range)      H      Holding times for preparation or analysis exceeded  
 J      Estimated value detected below Reporting Limit      N      Analyte not NELAC certified      R      RPD outside limits due to matrix  
 Rpt Lim      Reporting Limit      S      Spike Recovery outside limits due to matrix

**Client:** Peachtree Environmental  
**Project Name:** Hull/Former Loef  
**Workorder:** 1303727

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: R239997**

Sample ID: <b>MB-R239997</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>239997</b>							
SampleType: <b>MBLK</b>	TestCode: <b>ION SCAN SW9056A</b>	BatchID: <b>R239997</b>	Analysis Date: <b>03/08/2013</b>	Seq No: <b>5023385</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	BRL	1.0	0	0	0	0	0	0	0	0	
Nitrate	BRL	0.25	0	0	0	0	0	0	0	0	
Sulfate	BRL	1.0	0	0	0	0	0	0	0	0	

Sample ID: <b>LCS-R239997</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>239997</b>							
SampleType: <b>LCS</b>	TestCode: <b>ION SCAN SW9056A</b>	BatchID: <b>R239997</b>	Analysis Date: <b>03/08/2013</b>	Seq No: <b>5023384</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	5.500	1.0	5	0	110	90	110	0	0	0	
Nitrate	5.365	0.25	5	0	107	90	110	0	0	0	
Sulfate	26.10	1.0	25	0	104	90	110	0	0	0	

Sample ID: <b>1303656-001BMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>239997</b>							
SampleType: <b>MS</b>	TestCode: <b>ION SCAN SW9056A</b>	BatchID: <b>R239997</b>	Analysis Date: <b>03/08/2013</b>	Seq No: <b>5023389</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	70.42	10	50	17.25	106	90	110	0	0	0	
Nitrate	72.02	2.5	50	14.36	115	90	110	0	0	0	S
Sulfate	282.6	10	250	25.44	103	90	110	0	0	0	

Sample ID: <b>1303656-001BMSD</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>239997</b>							
SampleType: <b>MSD</b>	TestCode: <b>ION SCAN SW9056A</b>	BatchID: <b>R239997</b>	Analysis Date: <b>03/08/2013</b>	Seq No: <b>5023391</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	69.28	10	50	17.25	104	90	110	70.42	1.64	20	
Nitrate	72.01	2.5	50	14.36	115	90	110	72.02	0.022	20	S
Sulfate	271.7	10	250	25.44	98.5	90	110	282.6	3.92	20	

**Qualifiers:** > Greater than Result value      < Less than Result value      B Analyte detected in the associated method blank  
 BRL Below reporting limit      E Estimated (value above quantitation range)      H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit      N Analyte not NELAC certified      R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit      S Spike Recovery outside limits due to matrix



## APPENDIX E

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## SCHEDULE







## APPENDIX F

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# MONTHLY SUMMARY OF PROFESSIONAL ENGINEER HOURS

**FORMER LOEF FACILITY  
ATHENS, CLARKE COUNTY, GEORGIA  
HSI #10376**

**APPENDIX E  
MONTHLY SUMMARY AND DESCRIPTION OF PROFESSIONAL ENGINEER HOURS**

Quantity	Units	Time Period + Description of Activities	Hours	
				Subtotal
<i>November 1 - 30, 2012</i>				
		<b>Project Management</b> - Review and Respond to EPD comments on VRP Application		
1.00	Hours	Sr. Project Manager (John P. Martiniere, P.E.)		1.00
<i>December 1 - 31, 2012</i>				
		<b>Project Management</b> - Review Alternatives for Site Delineation, Prepare/Review		
0.50	Hour	Sr. Project Manager (John P. Martiniere, P.E.)		0.50
<i>January 1 - 31, 2013</i>				
		<b>Project Management</b> - Prepare Financial Assurance Estimate; Preparation and Attendance at Meeting with EPD; relocation of Additional Monitoring Wells		
1.00	Hours	Sr. Project Manager (John P. Martiniere, P.E.)		1.00
<i>February 1 - 28, 2013</i>				
		<b>Project Management</b> - Pepare and Review 1st Semi-Annual Report and Responses to EPD Comments		
3.50	Hours	Sr. Project Manager (John P. Martiniere, P.E.)		3.50
<i>March 1 - 31, 2013</i>				
		<b>Project Management</b> - Pepare and Review 1st Semi-Annual Report and Responses to EPD Comments		
1.50	Hours	Sr. Project Manager (John P. Martiniere, P.E.)		1.50
<i>April 1 - 30, 2013</i>				
		<b>Project Management</b> - Pepare and Review 1st Semi-Annual Report and Responses to EPD Comments		
5.50	Hours	Sr. Project Manager (John P. Martiniere, P.E.)		5.50

**PE MONTHLY HOURS TOTAL => 13.00**