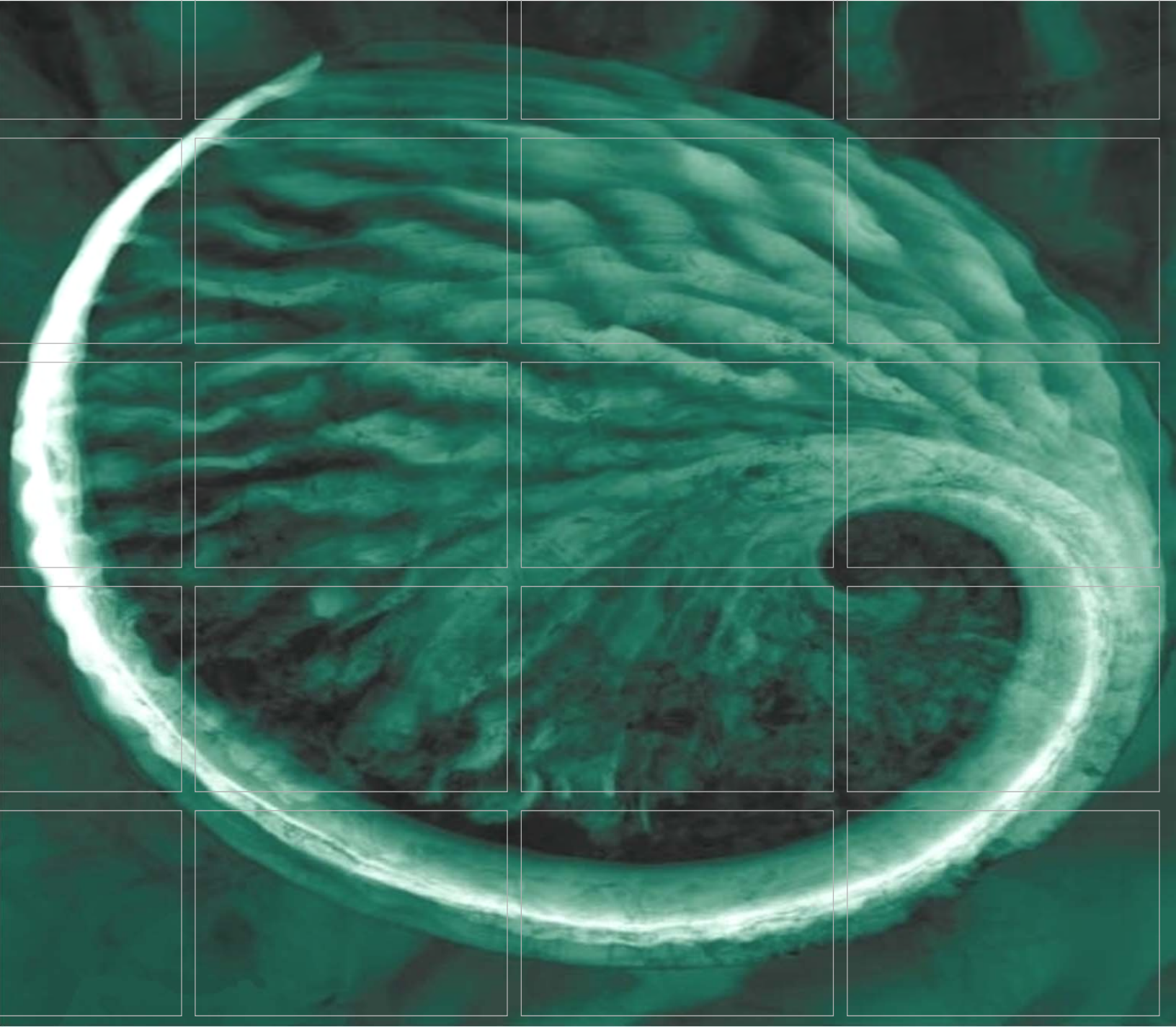

Remedial Investigation Work Plan

ECI Elon Facility
100 Rego Drive
Elon, North Carolina

April 17, 2014

ERM

Delivering sustainable solutions in a more competitive world

Engineered Controls International, LLC

Remedial Investigation Work Plan

Elon Facility
100 Rego Drive
Elon, North Carolina

Inactive Hazardous Site No. NONCD0002904

April 17, 2014

Thomas M. Wilson, P.G. R.S.M.
Partner In Charge & IHSB Registered Site Manager

Lane Dorman, P.G.
Project Manager

NORTH CAROLINA LICENSED SEAL 1113 GEOLOGIST THOMAS M. WILSON

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REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 1 OF 2

IHSB SITE NAME Engineered Controls International - Elon

DATE & NAME OF DOCUMENT 20140417 - Remedial Investigation Work Plan

TYPE OF SUBMITTAL (circle all that apply): Report, Work plan, Work Phase Comp. Statement, Schedule Change

REMEDIATING PARTY DOCUMENT CERTIFICATION STATEMENT (.0306(B)(2))

"I certify under penalty of law that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."

Timothy G Crater
Name of Remediating Party

Signature of Remediating Party

4/21/14
Date

NOTARIZATION

North Carolina (Enter State)

Alamance COUNTY

I, Patricia T. Hill, a Notary Public of said County and State, do hereby certify that Timothy G. Crater did personally appear and sign before me this day, produced proper identification in the form of passport, was duly sworn or affirmed, and declared that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is true and accurate, and he or she then signed this Certification in my presence.

WITNESS my hand and official seal this 21 day of April, 2014

Patricia T. Hill
Notary Public (signature)

(OFFICIAL SEAL)

My commission expires: 2-7-17

OFFICIAL SEAL
PATRICIA T. HILL
Notary Public - North Carolina
ALAMANCE COUNTY
My Commission Expires

Patricia T. Hill

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 2 OF 2
IHSB SITE NAME Engineered Controls International - Elon
DATE & NAME OF DOCUMENT 20140417 - Remedial Investigation Work Plan
TYPE OF SUBMITTAL (circle all that apply): Report, Work plan, Work Phase Comp. Statement, Schedule Change

REGISTERED SITE MANAGER CERTIFICATION OF SIGNATURES

As the Registered Environmental Consultant for the Site for which this filing is made, I certify that the signatures included herewith are genuine and authentic original handwritten signatures and/or true, accurate, and complete copies of the genuine and authentic original handwritten signatures of the persons who purport to sign for this filing. I further certify that I have collected through reliable means the originals and/or copies of said signatures from the persons authorized to sign for this filing who, in fact, signed the originals thereof. Those persons and I understand and agree that any copies of signatures have the same legally binding effect as original handwritten signatures, and I certify that any person for whom I am submitting a copy of their signature has provided me with their express consent to submit said copy. Additionally, I certify that I am authorized to attest to the genuineness and authenticity of the signatures, both originals and any copies, being submitted herewith and that by signing below, I do in fact attest to the genuineness and authenticity of all the signatures, both originals and copies, being submitted for this filing.

Tom Wilson
Name of Registered Site Manager

Thomas M Wilson
Signature of Registered Site Manager

4-22-14
Date

REGISTERED SITE MANAGER DOCUMENT CERTIFICATION STATEMENT (.0306(b)(1))

"I certify under penalty of law that I am personally familiar with the information contained in this submittal, including any and all supporting documents accompanying this certification, and that the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete and complies with the Inactive Hazardous Sites Response Act N.C.G.S. 130A-310, et seq, and the remedial action program Rules 15A NCAC 13C .0300. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."

Tom Wilson
Name of Registered Site Manager

Thomas M Wilson
Signature of Registered Site Manager

4-22-2014
Date

NOTARIZATION

North Carolina (Enter State)
Mecklenburg COUNTY

I, Debra C Pressley, a Notary Public of said County and State, do hereby certify that Thomas M Wilson did personally appear and sign before me this day, produced proper identification in the form of NCDL, was duly sworn or affirmed, and declared that, he or she is the duly authorized environmental consultant of the remediating party of the property referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certifications is true and accurate, and he or she then signed these Certifications in my presence.

WITNESS my hand and official seal this 22 day of April, 2014.

Debra C Pressley
Notary Public (signature)

(OFFICIAL SEAL)

My commission expires: 10/27/2017

DEBRA C PRESSLEY
Notary Public
North Carolina
Union County

Document Certification Form No. DC - II
(Revised 8/11)

TABLE OF CONTENTS

1.0 INTRODUCTION 1

2.0 SITE BACKGROUND INFORMATION 3

2.1 SITE LOCATION 3
2.2 SITE OWNERSHIP 3
2.3 SITE DESCRIPTION AND IMPROVEMENTS 3
2.4 LAND USAGE AND ZONING 4

3.0 ENVIRONMENTAL SETTING 5

3.1 SURFACE FEATURES 5
3.2 CLIMATE 5
3.3 SURFACE WATER HYDROLOGY 5
3.4 REGIONAL GEOLOGY AND HYDROGEOLOGY 5
3.5 WATER SUPPLY 6
3.5.1 Municipal Water Availability 6
3.5.2 Drinking Water Wells 6
3.6 ENVIRONMENTALLY SENSITIVE AREAS 7

4.0 SITE HISTORY 9

4.1 OPERATIONAL HISTORY 9
4.2 EVALUATION OF HISTORICAL INFORMATION SOURCES 9
4.3 HAZARDOUS SUBSTANCES AND WASTE MANAGEMENT PRACTICES 10
4.3.2 Aboveground Storage Tanks 11
4.3.3 Hazardous Waste 11
4.3.4 SARA Title III Reporting 12
4.3.5 Environmental Permit History 12
4.3.6 On-Site Waste Disposal 13
4.4 PREVIOUS INVESTIGATIONS 13

5.0 POTENTIAL AREAS OF CONCERN 17

6.0 PHASE II RI WORK PLAN 19

6.1 PHASE II RI ASSESSMENT ACTIVITIES 19
6.1.1 Summary of Site Assessment Activities 19
6.1.2 Soil Sampling Strategy 20
6.1.2.1 Soil Sampling Methodology 21
6.1.3 Groundwater Assessment Strategy 22
6.1.3.1 Equipment Decontamination 23
6.1.3.2 Temporary Saprolite Groundwater Well Installation and Construction 23
6.1.3.3 Upper-Bedrock Groundwater Monitor Well Installation 23
6.1.3.4 Upper-Bedrock Monitor Well Construction 24
6.1.3.5 Monitor Well Development and Sampling Methodology 25
6.1.3.6 Aquifer Testing 26
6.1.4 Sensitive Receptor Survey 26
6.1.5 Comprehensive Groundwater Assessment 26
6.2 INVESTIGATION DERIVED WASTE 27
6.3 QUALITY ASSURANCE/QUALITY CONTROL 27
6.4 SURVEYING 27
6.5 HEALTH AND SAFETY 28
6.6 REMEDIAL INVESTIGATION REPORT 28

LIST OF FIGURES

1	*Site Location Map*
2	*Site Map*
3	*Adjacent Properties Map*
4	*Groundwater Contour Map – March 2013*
5	*Areas of Concern*
6	*Soil Isoconcentration Contours – TCE*
7	*Groundwater Isoconcentration Contours – TCE*
8	*Soil Metals Sample Locations*
9	*Groundwater Metals Sample Locations*
10	*Proposed Sample Locations*

LIST OF TABLES

1	*Summary of Historical Soil Results*
2	*Summary of Historical Groundwater Results*
3	*Summary of Tentatively Identified Compounds*

LIST OF APPENDICES

A	*Property Survey*
B	*Property Deed*
C	*Historical Source Documents*
D	*Sensitive Environment Contact Records*
E	*Safety Data Sheets*
F	*Environmental Permits*
G	*Soil, Groundwater, and Lithologic Data Not Previously Submitted to NCDENR*
H	*Quality Assurance/Quality Control Plan*
I	*Health and Safety Plan*

1.0 INTRODUCTION

ERM NC, Inc. (ERM) has prepared this Remedial Investigation (RI) Work Plan (Work Plan) on behalf of Engineered Controls International, LLC (ECI). This Work Plan has been prepared in accordance with the Administrative Agreement (AA) for a voluntary Registered Environmental Consultant (REC) directed assessment and remedial action between the North Carolina Department of Environment and Natural Resources (NCDENR) Division of Waste Management Superfund Section and Engineered Controls International (the Remediator), Docket Number 13-SF-367 executed on July 23, 2013 and subsequently amended on January 30, 2014. This Work Plan describes environmental assessment conducted and proposed to evaluate soil and groundwater contamination at the ECI property located at 100 Rego Drive, Elon in Alamance County, North Carolina (hereafter called the "Site", "Subject Property", or "ECI-Elon facility").

The scope of work presented in this Work Plan is based on information obtained from various sources, including:

- A review of current and past operational activities and waste management practices at the Site;
- An evaluation of potential sensitive receptors in the area;
- A review of historical aerial photographs and other historical information for the site and surrounding area;
- Results of previous investigations of soil and groundwater conducted by others at the site.

The Work Plan has been prepared to meet the specific requirements of the NCDENR *Registered Environmental Consultant Program Implementation Guidance* dated December 2013 (hereafter called REC Guidance), the requirements for RI Work Plans contained in the North Carolina Administrative Code (NCAC) Title 15A 13C .0306(g), and the AA for the Site.

Proposed investigation activities and methods have been developed to comply with the REC Guidance document and EPA's *Field Branches Quality System and Technical Procedures*.

The activities proposed in this Work Plan supplement the previous investigative and monitoring activities that have been conducted at this Site since 2009. A significant amount of soil and groundwater data was collected during investigations at the Site over the last few years. The primary purpose of this Work Plan is to present the means by which ECI will delineate the extent of volatile organic compound (VOC) concentrations in soil and groundwater.

Sections 2.0, 3.0, 4.0 and 5.0 provide the Site Background Information,

Environmental Setting, and Site History required by the AA. Section 6.0, Remedial Investigation Work Plan, describes the investigation methods proposed to delineate the extent of VOC-impacted soil and groundwater.

2.0 SITE BACKGROUND INFORMATION

2.1 SITE LOCATION

The ECI-Elon facility is located at 100 Rego Drive in Elon, Alamance County, North Carolina. A site location map depicting topography within a one-mile radius of the site is presented as Figure 1. The approximate coordinates of the site are: latitude 36.10118° N; longitude 79.5185° W. A property layout map of the site is provided as Figure 2. A Site survey is provided in Appendix A.

2.2 SITE OWNERSHIP

The Site was originally developed as a corrugated cardboard box manufacturing facility in approximately 1964. Oak Folding Cartons, Inc. occupied the Site from at least 1967 until 1970. From 1971 through at least 1979, the Site was occupied by Kardon Industries, Inc. (also a corrugated cardboard box manufacturer). RegO Group, Inc. acquired the Site in 1980 and subsequently transferred property ownership to Engineered Controls International, Inc. in 1989. In 2010, Engineered Controls International, Inc. merged with Engineered Controls International, LLC, which retains current Site ownership. A copy of the property deed is provided in Appendix B (obtained from Alamance County GIS).

2.3 SITE DESCRIPTION AND IMPROVEMENTS

The Site comprises approximately 13 acres with an approximate 100,000-square-foot building constructed during at least three expansions. The building consists of three main operational areas: an approximately 20,000-square-foot office area (along the western side of the main building), an approximate 1,500-square-foot engineering room (near the northeastern corner of the building), and a large manufacturing/assembly area that occupies the remainder of the building. A maintenance shop and adjacent compressor room are located in the northern portion of the manufacturing area. A bright dip line, thermal deburring area, and wastewater treatment plant (WWTP) are located in the central portion of the manufacturing area. A former paint storage room is located along the exterior of the southeastern corner of the building. Asphalt-paved parking and driveways surround the Site building. A covered and bermed hazardous waste storage area and fenced valve testing area (where liquid propane gas is transferred through valves between above ground storage tanks) are located near the southeastern corner of the Site building. Subgrade areas identified at the Site include wastewater collection pits and trenches in the WWTP/bright dip area and a sump that collects liquids from the hazardous waste storage area. ECI empties and inspects the wastewater pits every two years and relines the pits (with a fiberglass resin) every ten years.

The buildings are heated with natural gas-fired heaters and cooled electrically. The local municipal authority provides water and sanitary sewer services. No

current or historical water supply wells or septic systems have been identified at the Site. Landscaped areas are located adjacent to the north and northeast of the building (between the building and parking areas) and surrounding the hazardous waste storage and valve testing areas. The eastern approximately one-third of the Site is densely wooded. The Site is accessed from West Haggard Street from the north and from Rego Drive, located to the west of the Site building.

2.4 LAND USAGE AND ZONING

Review of previous reports, historical aerial photos (Appendix C), and an internet-based evaluation of adjacent properties produced the following observations and information regarding adjacent land use:

North: Properties located to the North of the Site building, across West Haggard Street appear to have been undeveloped or developed for residential purposes as early as 1951. An automotive service facility and Elon Self Storage were constructed in the early and late 1990s, respectively, and are located to the north of the Site building across West Haggard Street between Rego Drive and Center Street. Residential properties are located to the North of the Site building across West Haggard Street between Center Street and Moonelon Drive. Property northeast of the western property boundary, across West Haggard Street (east of Moonelon Drive) was residential until the early 2000s when it was developed with a shopping center consisting of various retail shops and a restaurant.

East: Properties located to the east of the Site have been used for residential purposes since at least 1951.

South: With exception of the railroad located south of the Site, properties were used for either agricultural or undeveloped purposes until the 1970s, when the first portion of the Sunoco facility was constructed.

West: Properties to the west of the Site appear to have been undeveloped or used for agricultural purposes from at least 1951 until the late 1980s when the current facility (used as Elon University's Physical Plant – the Dickson Building) and gas station (west of the Dickson Building) were constructed in the late 1980s and early 1990s, respectively.

Figure 3 is a map of the Site and surrounding properties.

3.0 ENVIRONMENTAL SETTING

3.1 SURFACE FEATURES

The Site is located within the Piedmont Physiographic Province of North Carolina. Topography in this area generally consists of gently rolling hills and topographic elevations at the Site range from approximately 685 feet above mean sea level (ft amsl) along the eastern property boundary to 720 ft amsl along the western property boundary.

3.2 CLIMATE

Average annual precipitation in Alamance County is approximately 44 inches with peak precipitation occurring in July (http://www.usa.com/alamance-county-nc-weather.htm). The average mean high temperature is approximately 78°F and the average annual low temperature is approximately 39°F.

3.3 SURFACE WATER HYDROLOGY

There is an intermittent creek on the undeveloped eastern portion of the property. Based on Site topography, it appears that overland run-off from the developed portions of the Site drain to the east into the intermittent stream channel that ultimately drains to the north into Travis Creek, located approximately 1.5 miles north of the Site. A small pond is located approximately 0.25 mile north of the Site.

ERM reviewed Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) No. 3710884500L Panel 8845, dated June 18, 2007. According to the map, the site is not located within a 100-year or 500-year flood plain.

3.4 REGIONAL GEOLOGY AND HYDROGEOLOGY

The Site is located within the Piedmont Physiographic Province of North Carolina, underlain by metamorphic and igneous rocks of varying age subdivided into geologic belts. Based on the North Carolina Geologic map, bedrock at the Site consists primarily of metamorphosed diorite. Bedrock was encountered at approximately 60 feet below grade surface (ft bgs) during previous on-site environmental assessments. Saprolite, a layer of weathered and variably decomposed bedrock, was observed above bedrock at the Site and generally mantles bedrock in this region. Saprolite has the appearance of compact clayey to sandy soil, with original bedrock textures and features preserved.

The occurrence and movement of groundwater in the Piedmont province is generally within two separate, but interconnected, water bearing zones. A shallow water-bearing zone occurs within the saprolite/partially weathered rock (PWR)

zone, and a deeper underlying bedrock zone. Site groundwater is expected to occur predominantly in the saprolite/PWR aquifer zone.

As shown in Figure 4, groundwater beneath the developed western portion of the Site generally flows to the northeast toward the intermittent stream on the undeveloped portion of the Site. Groundwater beneath the undeveloped eastern portion of the Site generally flows to the northwest also toward the intermittent stream. Historical monitoring data indicate that the general depth to groundwater at the Site ranges from 34 feet in the central portion to 15 feet in the northeast portion. The maximum groundwater elevation differential observed in March 2013 from the wells installed at that time was approximately 15 feet on the western portion of the Site and approximately 5 feet on the eastern portion of the Site.

Groundwater flow in the saprolite aquifer zone is typically governed by water table conditions and will flow under unconfined conditions and generally mimic topography. Therefore, groundwater originates in upland areas (recharge zones) and flows toward nearby streams (discharge zones).

Secondary joints, fractures, and faults within the crystalline bedrock control the occurrence and movement of groundwater in the deeper water-bearing zone. Groundwater within the bedrock zone may be under confined or unconfined conditions.

3.5 WATER SUPPLY

3.5.1 Municipal Water Availability

The Site and proximal properties obtain potable water through Elon utilities, which purchases water from the City of Burlington. The City of Burlington obtains its drinking water from three surface water bodies: Lake Mackintosh (approximately 3.8 miles south of the Site), Stoney Creek Reservoir (approximately 6.4 miles northeast of the Site), and Lake Cammack (approximately 7.8 miles northeast of the Site).

3.5.2 Drinking Water Wells

A water supply well survey, as required by the REC guidance, has not been conducted for the Site to date. A sensitive receptor survey (SRS) within ½ mile of the Site will be completed as part of the proposed RI scope of work. The scope of the SRS is discussed in Section 6.1.8.

Based on information from public environmental databases, seven water wells locations were identified within a 1-mile radius of the Site. The nearest well location was approximately 1,000 feet south (upgradient) of the Site. The use status of the water wells is undetermined. The seven wells appear to be within the area served by public water supply.

3.6 *ENVIRONMENTALLY SENSITIVE AREAS*

The REC Implementation Guidance requires that the Site and adjacent properties be evaluated for the presence of environmentally sensitive areas. The various state and federal agencies listed in the REC Implementation Guidance were contacted to evaluate the presence of environmentally sensitive areas. The site is not located in a coastal area; therefore, neither the North Carolina Division of Coastal Management nor the National Oceanic and Atmospheric Administration were contacted. Documentation for the environmentally sensitive areas is provided in Appendix D and the following table summarizes findings from each source to date.

Agency and Person Contacted	**Results of Contact**
NC Division of Conservation, Planning, and Community Affairs – Natural Heritage Program http://portal.ncdenr.org/web/nhp/data-services	Based on a review of records using the online National Heritage Program Map Viewer, no State Parks, Areas Important to Maintenance of Unique Natural Communities, Sensitive Areas Identified Under the National Estuary Program, Designated State Natural Areas, State Seashore, Lakeshore and River Recreational Areas, Rare Species, Sensitive Aquatic Habitats, or State Wild & Scenic Rivers are located on or adjacent to the Site.
National Park Service – Public Affairs Office http://www.nps.gov/rivers	Based on a review of information provided by the National Park Service and USGS Topographic Map, the Site is not located near National Seashore, Lakeshore, and River Recreational Areas, National Parks or Monuments, or Federally Designated Wild & Scenic River or River Recreational Areas
Heather Luczak US Forest Service	Ms. Luczak stated in an email dated March 5, 2014 that the US Forest Service has no concerns regarding sensitive environments at or adjacent to the Site.
Nora Deamer NC Division of Water Quality	In a letter dated March 13, 2013, Ms. Deamer stated that this area is classified as an Environmentally Sensitive or State-Designated Area for Protection or Maintenance of Aquatic Life. The Site and vicinity drain into the Haw River arm of the Jordan Lake Watershed. This watershed is designated as Nutrient Sensitive Waters and there is a specific Nutrient Management Strategy for Jordan Lake watershed (see http://www.jordanlake.org). The Haw River is listed on the NC impaired waters list (2012 IR (303(d)/305(b) report) due to high levels of fecal coliform bacteria, and other portions of the Haw River and Jordan Lake are impaired by high turbidity, chlorophyll a, and high pH. Any activity taking place at the Site should eliminate runoff and reduce stormwater volume, nutrient, sediment, and bacteria load.
Chris Carlson (Call Record) NC Division of Forest Resources (State Preserves and Forests)	According to Mr. Carlson, the NC Division of Forest Resources has no State Preserves or Forests in Alamance County.
Pete Benjamin – Field	In a letter dated 4 April 2014, Mr. Benjamin stated that the

Supervisor US Fish & Wildlife Service (Endangered Species)	project is not likely to adversely affect any federally listed endangered or threatened species, their formally designated critical habitat, or species currently proposed for listing under the Endangered Species Act at the Site.
Renee Gledhill-Early NC Department of Cultural Resources	In a letter dated April 10, 2014, Ms. Gledhill-Early stated that no historic resources would be affected by the project.
Shari Bryant NC Wildlife Resources Commission	In a letter dated 14 March 2013, Ms. Bryant stated that the NC Wildlife Resources Commission was not aware of any migratory pathways or critical feeding areas for anadromous fish species within or near the Site. Ms. Bryant indicated that Back Creek Watershed supports a Piedmont warmwater fishery and although NC WRC was not aware of any specific reaches of this stream that are critical spawning areas, protecting water quality and aquatic habitat are essential for the continued survival of fish and mussel populations in this watershed.
Stephen Chapin – Regulatory Specialist US Army Corps of Engineers National Wetlands Inventory (NWI) http://www.fws.gov/wetlands/Data/Mapper.html	Awaiting response from Mr. Chapin. Review of the NWI online mapper indicates no wetlands on or adjacent to the Site.

Information on environmentally sensitive areas that may be obtained from agencies that were contacted but have not yet responded will be documented in the RI report.

4.0 SITE HISTORY

4.1 OPERATIONAL HISTORY

Based on a review of previous environmental reports, the Site was originally constructed in 1964 and used by a corrugated cardboard manufacturer from 1964 until approximately 1980. Details of the operations during the period of corrugated cardboard manufacturing at the Site are not available. The Site has been used for the manufacture of valves for the Liquefied Petroleum (LP) gas industry since 1980. Current activities at the Site primarily include the assembly of brass valve bodies that are forged or cast at off-Site facilities along with miscellaneous parts (rubber seals, washers, knobs, springs, and pipes) that are also manufactured off site. Parts are assembled, tested, brazed, welded, thermally deburred, and Bright Dipped in manual or robotic operations. Thermal deburring is a semi-automated process in which valves are sealed in an air tight chamber that is flooded with a natural gas/oxygen mixture and ignited to burn off filings. Bright Dipping is a process to clean and treat the surface of parts (to remove an oxide layer resulting from thermal deburring) that includes steps for alkaline cleaning, muriatic acid pickling, sulfuric/nitric acid cleaning, and chromate sealing. Ancillary operations on site include operation of a small, permitted wastewater treatment plant (WWTP), analytical testing in connection with the WWTP, spray painting (of parts in the ductile iron department), research and development, product testing, and equipment maintenance.

4.2 EVALUATION OF HISTORICAL INFORMATION SOURCES

To determine past uses of the subject property and surrounding properties, ERM reviewed historical sources of information including aerial photographs, a chain of title report from 2008, and previous environmental reports. Copies of aerial photographs and the chain of title report reviewed for this workplan are provided in Appendix C.

The following Site history was compiled by GaiaTech and presented in the 2013 Phase I ESA report (GaiaTech 2013):

> "The site consisted of undeveloped or agricultural land from as early as 1951 until it was developed for industrial purposes with the central portion of the current site building in 1964. Oak Folding Cartons, Inc. (a manufacturer of corrugated cardboard boxes) occupied the site from at least 1967 until 1970. From 1971 through at least 1979, the site was occupied by Kardon Industries, Inc. (also a manufacturer of corrugated cardboard boxes). RegO Group, Inc. acquired the site in 1980. Engineered Controls International, Inc. acquired the site in 1989. After a merger in 2010, ECI began operating on site. A manufacturing area

addition to the eastern portion of the site building was constructed by 1973, the office addition to the western portion of the site building was constructed by 1988, and the engineering room addition on the eastern portion of the site building was constructed in 1993. Oak Folding Cartons and Kardon utilized a railspur that is still present to the south of the site building. In addition, Oak Folding Cartons and Kardon utilized an 8,000-gallon fuel oil UST (installed in 1964 and removed in 1991) southwest of the building to fuel a boiler and a water tower (constructed by 1969 and dismantled in 2003) for fire suppression water. No other details related to historical operations prior to 1980 were available. Since 1980, products manufactured on site have not changed significantly. A trichloroethene (TCE) vapor degreaser was historically used in parts cleaning activities from 1980 through the 1990s when it was removed. A zinc plating line was formerly present in the approximate location of the WWTP/Bright Dip area from 1980 until 2000. Solvent-based paints were used from 1980 through 1997, when they were replaced by aqueous paints. No other significant changes in chemical use were noted in connection with operations since 1980."

4.3 HAZARDOUS SUBSTANCES AND WASTE MANAGEMENT PRACTICES

4.3.1 Hazardous Materials Storage

Based on information received from Jimmy McCandies (an ECI Environmental/ Safety Coordinator), the following types of hazardous materials are used at the Site and are stored in the respective containers and locations:

Hazardous Materials Storage

Substance Type	Container(s)	Location	Condition
Halogenated Solvents	Aerosol spray cans	Multiple	Good
Non-halogenated Solvents	Aerosol spray cans	Multiple	Good
Acids (sulfuric, nitric, and muriatic)	HDPE AST and Drums	WWTP	Good
Bases	HDPE AST	WWTP	Good
Glues and epoxies	1-pint HDPE	Multiple	Good
Petroleum Hydrocarbons (lubricants)	Drums	Maintenance area	Good
Paints, Pigments and Dyes	5-gallon pails	Painting area	Good
Compressed Gases	Compressed gas cylinders	Brazing area	Good
Sodium dichromate	50-lb bags	WWTP	Good

HDPE – high density polyethylene *WWTP = waste water treatment plant*
AST = aboveground storage tank

Safety data sheets (SDSs) for products commonly used at the Site are included in Appendix E.

4.3.2 *Aboveground Storage Tanks*

The aboveground storage tanks (ASTs) associated with the Site are summarized in the following table:

AST Information Summary

Number of Tanks	Year Installed	Location	Construction Material	Capacity (gallons)	Contents
1	unknown	N side of engineering room	Steel	3,000	Liquid nitrogen
1	unknown	S side of engineering room	Steel	1,500	Liquid oxygen
2	unknown	Propane Test Area	Steel	1,800	Propane
1	unknown	WWTP	Polypropylene	615	Sodium hydroxide
1	unknown	WWTP	Polypropylene	615	Sulfuric acid

S = South; N = North
WWTP = Wastewater Treatment Plant

The sodium hydroxide and nitric acid ASTs are located within secondary containment inside the building.

4.3.3 *Hazardous Waste*

The Site is registered as a large quantity hazardous waste generator under RCRA, EPA Identification Number NCD991302498, and has been shipping hazardous waste under this number since at least 1990. Wastes include corrosives (D002), lead (D008), and electroplating operations wastewater sludges (F006). Hazardous wastes are stored in the outdoor Hazardous Waste Storage Area near the southeast corner of the building. The Hazardous Waste Storage Area, reportedly constructed by 1990, is covered and has a concrete secondary containment structure consisting of a pad with berms and a sump pit. Short-term, satellite hazardous waste accumulation areas are located in the WWTP area and next to the Bright Dip Line. Since the ECI facility disposes of its hazardous waste within 90 days of generation it is exempt from RCRA Part B permitting requirements. Hazardous waste management at the Site is regulated by the NC Division of Waste Management Hazardous Waste Section. According to a review of the EPA Envirofacts database, the facility has been inspected in three of the last five years by the NC Hazardous Waste Section. No violations were identified during these inspections and no outstanding compliance issues associated with the Site were listed.

4.3.4 SARA Title III Reporting

Sections 311 and 312 of SARA Title III require the reporting of hazardous materials "stored" in amounts greater than 10,000 pounds; and reporting of extremely hazardous substances (EHS) in amounts of 500 pounds or the Threshold Planning Quantity (TPQ), whichever is less.

Based on a review of an Environmental Compliance Review dated July 29, 2010 (GaiaTech July 29, 2010), the facility has prepared and submitted Section 312, Tier II reports for acetylene, argon, burnishing compound, metal hydroxide sludge, ferrous sulfate, gasoline, hydrogen peroxide, Instapak (Components A and B), hydraulic oil, muriatic acid, nitric acid, nitrogen, oxygen, water-based paint, propane, soak cleaner, sodium dichromate, sodium hydroxide, sodium metabisulfite, and ultra-coolant. In addition, the report indicated sulfuric acid and possibly lead should be listed in Tier II reports.

4.3.5 Environmental Permit History

Copies of current and past (when available) environmental permits are presented in Appendix F. A discussion of key environmental permits is presented below.

WASTEWATER

Sanitary and process wastewaters discharge to the municipal sanitary sewer system under Industrial User Pretreatment Permit (IUP), IUP No. 019 issued by the City of Burlington . Process wastewater is pretreated at the onsite wastewater treatment plant (WWTP) prior to discharging to the municipal sanitary sewer system, which drains to the East Burlington WWTP on Quarry Road in Haw River, North Carolina. Wastewater daily maximum limits are established for cadmium, chromium, copper, total cyanide, lead, nickel, silver, zinc, Oil & Grease, and Total Toxic Organics (TTO). These parameters are sampled on a semiannual basis. According to historical documentation, process wastewater includes overflow from the bright dip line, brazing quench water, and noncontact cooling water from the thermal deburring unit (which is used as feed water for the bright dip line). Pits and trenches, constructed of concrete with a fiberglass resin liner, were installed in the WWTP area in 1981. The pits and trenches are emptied, cleaned and inspected every two years and relined with a fiberglass resin lining every 10 years. No damage has been identified or repaired in these subgrade areas since installation in 1981. A notice of violation for a zinc daily maximum limit exceedance was issued to ECI on June 6, 2013. The problem was found to be improper calibration of a pH meter that resulted in process wastewater pH that was too low for optimum precipitation of zinc. The problem was fixed and two subsequent sampling events indicated no exceedances of the zinc daily maximum limit. A copy of the IUP and correspondence regarding the zinc exceedance and follow-up sampling are included in Appendix F.

STORMWATER

According to a historical documentation (GaiaTech July 29, 2010), operations at the Site do not require a stormwater discharge permit.

HAZARDOUS WASTE

According to historical documentation (GaiaTech July 29, 2010), and as discussed in Section 4.3.4, ECI generates hazardous wastes and completes required forms but is exempt from RCRA Part B permitting requirements.

AIR EMISSIONS

According to historical documentation (GaiaTech July 29, 2010), operations at the Site do not currently require an air quality permit. Air emission sources identified at the site include brazing and welding operations, the Bright Dip line, sludge drying operations (in connection with the WWTP), and operation of a paint booth. Emissions control equipment includes a countercurrent packed bed scrubber (to control emissions from the Bright Dip line) and a simple cyclone (to control emissions from sludge drying).

According to historical documentation (GaiaTech July 29, 2010), ECI was issued an Air Permit (No. 04494R07) on November 17, 1998. The permit covered operation of the packed bed scrubber, paint booth, and the simple cyclone. On December 20, 2002, ECI requested that NCDENR reevaluate permitting requirements related to its operations as it suspected that its operations no longer required permitting. On May 30, 2003, NCDENR rescinded ECI's permit indicating that after re-evaluation of emissions in connection with sludge drying and actual uncontrolled emissions of criteria pollutants, ECI was not subject to air permitting requirements.

4.3.6 On-Site Waste Disposal

Aside from apparent construction related debris in the wooded area on the east side of the building, ERM did not identify evidence of on-Site waste disposal.

4.4 PREVIOUS INVESTIGATIONS

Previous investigations at the Site have been conducted by GaiaTech and Mactec. Reports, communications and historical documents generated by others have been reviewed and relied upon for historical information regarding previous environmental activities at the Site. Significant reports documenting initial site assessment activities are listed below.

Summary of Significant Environmental Reports

Author/Date	Description
Mactec March 2009	*Phase I Environmental Site Assessment, Engineered Controls International, Inc., Elon, North Carolina*
GaiaTech July 2010	*Phase I Environmental Site Assessment, Engineered Controls International, Inc., 100 Rego Drive, Elon, Alamance County, North Carolina*
GaiaTech July 29, 2010	*Environmental Compliance Review, Engineered Controls International, Inc., 100 Rego Drive, Elon, North Carolina*
GaiaTech December 2011	*Limited Phase II Site Investigation, Engineered Controls International, Inc., 100 Rego Drive, Elon, Alamance County, North Carolina*
GaiaTech April 27, 2012	*Notification of an Inactive Hazardous Substance or Waste Disposal Site Engineered Controls International, LLC, 100 Rego Drive, Elon, Alamance County, North Carolina*
GaiaTech December 21, 2012	*Soil Vapor Investigation Activities: Engineered Controls International, LLC Facility Located at 100 Rego Drive, Elon, Alamance County, North Carolina*
GaiaTech September 2013	*Phase I Environmental Site Assessment, Engineered Controls International, LLC, 100 Rego Drive, Elon, Alamance County, North Carolina*
GaiaTech October 15, 2013	*Quarterly Status Report and Proposed Schedule, Engineered Controls International Site, 100 Rego Drive, Elon, Alamance County, North Carolina, IHSB Site # NONCD0002904*

A summary of previous environmental activities is provided in the following section. Analytical data reports and boring logs ERM could not confirm were previously submitted to the NCDENR Division of Water Quality, Aquifer Protection Section are provided in Appendix G.

Site Environmental History

Date	Description
1951	Site consisted of undeveloped or agricultural land
1964	Initial construction of site building and use as a corrugated cardboard manufacturing facility
1980	Beginning of current Site operations
1990	Hazardous Waste Storage Shed constructed
1990s	Removal of TCE vapor degreaser
1997	Solvent-based paints replaced by water-based paints
2000	Removal of zinc plating lines
March 2009	Results of Mactec's Phase I ESA indicated no RECs found
July 2010	GaiaTech's Phase I ESA report identified RECs including historical use of a TCE vapor degreaser, solvent-based paints, and a zinc plating line. The report identified the following noteworthy issues: potential releases from subgrade pits and sumps, uncertain historical operations

	associated with cleared areas on the eastern portion of the Site in the 1960s and 1970s, and uncertainty regarding the nature of operations by a prior Site occupant that manufactured cardboard boxes.
2011	GaiaTech collected 26 soil samples and 18 groundwater samples and prepared a Limited Phase II Site Investigation report presenting the results. Samples were selectively analyzed for VOCs, SVOCs, GRO, DRO, RCRA Metals, and hexavalent chromium. The data indicate that TCE, PCE, and daughter products were detected in groundwater in the area of the former degreaser and the WWTP/bright dip area in concentrations exceeding NC 2L groundwater standards. Soil sample analyses indicated VOC concentrations above preliminary protection-of-groundwater soil remedial goals (RGs), but not above human health soil RGs for unrestricted use scenario. There were no hexavalent chromium concentrations reported above human health unrestricted or protection-of-groundwater soil RGs in soil samples at the Site. Groundwater samples collected north of the Hazardous Waste Storage Area contained lead concentrations exceeding the NC 2L groundwater standard. Soil samples collected at the Site did not contain lead concentrations above human health unrestricted or protection-of-groundwater soil RGs. Selenium concentrations in soils at the Site were below human health soil RGs for unrestricted use scenario but exceeded protection-of-groundwater soil RGs in some samples. However, there were no selenium concentrations in groundwater samples at levels above the NC 2L groundwater standard. No site-related SVOC impacts to soil or groundwater were identified at the Site. The metals analyses of the 2011 samples did not include copper and zinc, the primary metals of the brass valves manufactured at the Site. The 2011 assessment activities did not include collection and analyses of background soil samples to determine naturally-occurring concentrations of metals in the Site soils. The findings of the 2011 assessment activities indicated historic releases of hazardous substances at three apparent source areas: the former vapor degreaser area, the bright dip/WWTP area, and the hazardous waste storage area. The Limited Phase II Site Investigation report was submitted to NCDENR.
April 27, 2012	Based on the results of the 2011 investigation, ECI submitted a *Notice of an Inactive Hazardous Substance or Waste Disposal Site* through its attorney, Moore & Van Allen PLLC.
Late 2012 – Early 2013	GaiaTech conducted additional subsurface sampling at the property in October/November 2012 and in February/March 2013. These additional efforts included the installation of 27 supplemental soil borings, 9 shallow groundwater monitoring wells, and 2 bedrock groundwater monitoring wells. Samples were selectively analyzed for VOCs and HSL Metals. The purpose of these supplemental activities was to delineate impacts to soils and groundwater resulting primarily from historic releases at apparent source areas identified during the 2011 assessment: the former vapor degreaser area, the bright dip/WWTP area, and the hazardous waste storage area. The findings of the 2012-2013 groundwater assessment activities indicated that the

	extent of VOC-affected groundwater was delineated laterally in the shallow saprolite aquifer zone and vertically in the underlying bedrock aquifer. However, the lateral extent of VOC-affected groundwater within the upper fractured bedrock aquifer zone was not delineated. GaiaTech also collected five sub-slab soil gas samples and conducted two rounds of indoor air quality sampling (February & March 2013) to evaluate potential vapor intrusion. The 2013 indoor air sampling data showed conflicting results, with NC indoor air quality screening levels exceeded in the March 2013 samples after no exceedances in the February 2013 samples.
July 23, 2013	Registered Environmental Consultant Administrative Agreement Executed (AA13SF367)
January 30, 2014	ECI changed its REC Program consultant from GaiaTech to ERM

The following potential source areas have been identified at the facility as a result of the above environmental assessments: the former vapor degreaser system, the bright dip line, the former zinc plating line, the former solvent-based paint storage area, the hazardous waste storage area, and an abandoned drum and adjacent debris pile in the eastern wooded area. These six potential areas of concern (AOCs) and are discussed further in Section 5.

5.0 POTENTIAL AREAS OF CONCERN

Based on a review of the site operations history and the results of previous environmental investigations, five AOCs have been identified at the Site that warrant remedial investigation for releases of hazardous substances (Figure 5). A summary of the identified AOCs and the additional assessment requirements for the REC program are provided below.

AOC	Description	Analytical Parameters	Required RI Sampling Completion Status		
			Soil	Groundwater	Surface Water/ Sediment
1	***Former Vapor Degreaser*** Process used 1980-1990s for parts cleaning	VOCs	Complete	**Incomplete**	N/A
		SVOCs	Complete	Complete[1]	
		Metals	**Incomplete[2,3]**	**Incomplete[3]**	
2	***Bright Dip Line*** Process to brighten metal finishes	VOCs	Complete	Complete	
		SVOCs	Complete	Complete	
		Metals	**Incomplete[2,3]**	**Incomplete[3]**	
3	***Former Zinc Plating Line*** Process discontinued in 2000	VOCs	Complete	Complete	
		SVOCs	Complete	Complete	
		Metals	**Incomplete[2,3]**	**Incomplete[3]**	
4	***Former Solvent-Based Painting/Storage*** Historical solvent-based paint use discontinued in 1997	VOCs	**Incomplete**	Complete	
		SVOCs	**Incomplete**	Complete	
		Metals	**Incomplete**	**Incomplete[3]**	
5	***Abandoned Drum and Debris Piles in Wooded Area*** Abandoned empty drum and debris piles containing construction materials in wooded area	VOCs	Complete	Complete	
		SVOCs	Complete	Complete	
		Metals	**Incomplete[3]**	**Incomplete[3]**	
6	***Hazardous Waste Storage Area*** Outdoor covered area for storage of hazardous waste	VOCs	Complete	Complete	
		SVOCs	Complete	Complete	
		Metals	**Incomplete[2]**	Complete	

[1]Phthalates detected in initial samples but not confirmatory samples

[2]Detected metals are likely naturally occurring; completion status pending additional sampling

[3]Metals sampling did not include full list of HSL metals, supplemental sampling for select HSL metals will complete evaluation.

Vapor intrusion assessment also completed for facility building

N/A = Not Applicable – Media not Present

SVOCs = Semivolatile organic compounds

VOCs = Volatile organic compounds

Metals = Hazardous substance list metals

Phase I RI groundwater and soil sampling events were conducted from 2011 to 2013. Soil and groundwater sampling results are presented in Tables 1 and 2, respectively. TCE results in soil are summarized on Figure 6, and TCE groundwater results are summarized on Figure 7. Metals sampling locations in soil are shown on Figure 8 and metals groundwater sampling locations are shown on Figure 9. Detections of tentatively identified compounds (TICs) in soil and groundwater are summarized in Table 3. None of the TICs were retained for further study.

In order to evaluate the potential for vapor intrusion, soil vapor samples were collected in November 2012. Various site-related VOC s were detected in the soil vapor samples at concentrations above NC screening levels for vapor intrusion assessment. Indoor air samples were then collected in February and March 2013 with conflicting results. In February 2014, ERM conducted a material use survey and determined that PCE- and TCE-containing products are actively in use at the Site. The inconsistency with the 2013 indoor air sampling results is likely associated with occasional use of PCE and TCE-containing solvent products. Based on the current use of PCE and TCE in the facility operations, the governing indoor air quality concentration thresholds for workers are the Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELs). The 2013 indoor air sample concentrations were below applicable PELs. No additional vapor intrusion assessment activities are planned.

The WWTP is a permitted activity by the City of Burlington. Therefore, the City of Burlington has jurisdiction over any contamination resulting from this permitted activity rather than the NC Division of Waste Management IHSB and this area will not be considered as an AOC in future investigations under the REC AA.

Additional assessment of AOCs 1, 2, 3, 4, and 5 is proposed to meet the requirements of the REC Implementation Guidance in Section 6.0.

6.0 PHASE II RI WORK PLAN

In accordance with the REC Guidance, the Remedial Investigation (RI) is generally conducted in two phases. The first phase of the RI (the Phase I RI) is meant to identify and characterize the chemical nature of releases of hazardous substances to soil, groundwater, surface water, and sediment. The second phase of the RI (the Phase II RI) focuses on the areas where hazardous substance releases have been identified at levels of potential concern. Horizontal and vertical delineation of affected media is generally performed during the Phase II RI.

6.1 PHASE II RI ASSESSMENT ACTIVITIES

Based on a review of previous assessment work conducted at the Site during 2010 through 2013, the characterization of the nature (Phase I) and extent (Phase II) of releases of hazardous substances at the Site is nearly completed, although not to the full extent required by the IHSB. In particular, assessment for certain Site-related metals is incomplete, and the extent of affected groundwater in the bedrock aquifer is not fully delineated. The remedial investigation activities proposed in this work plan are designed to supplement the previous remedial investigation activities and complete the remedial investigation of the Site in compliance with the REC program.

6.1.1 Summary of Site Assessment Activities

Phase II RI soil and groundwater-sampling activities by AOC are summarized in the following table:

Summary of Planned Assessment Activities

Location	Activity	Activity Summary	Sample Media		Sample Analyte Groups
			Soil	*GW*	
AOC 1 - Former Vapor Degreaser	VOC Delineation, SPLP Analysis, & Metals Evaluation	• Install four DPT soil borings and collect eight samples to refine delineation of VOC-impacted soil near GP-14; eight collocated SPLP samples for Site-specific soil remedial goal evaluation; and up to two samples for select HSL metals to complete the metals evaluation. • Install five temporary saprolite groundwater monitor wells to refine delineation of source area VOC-affected groundwater and resample GP-2 for select HSL metals.	X	X	VOCs Select HSL metals
AOC 2 – Bright Dip Line	Metals Evaluation	• Install one DPT boring and collect two soil samples for select HSL metals analysis. • Resample GP-2 for select HSL metals.	X	X	Select HSL metals

AOC 3 – Former Zinc Plating Line	Metals Evaluation	• Install one DPT boring and collect two soil samples for select HSL metals analysis. • Resample GP-2 for select HSL metals.	X	X	Select HSL metals
AOC 4 - Former Solvent-Based Paint Storage	VOC, SVOC, & Metals Evaluation	• Install one DPT boring and collect two soil samples for VOCs, HSL metals, and SVOCs analysis. • Resample MW-5 and MW-10 for select HSL metals.	X	X	VOCs, SVOCs, and HSL metals
AOC 5 – Drum and Debris Piles	Metals Evaluation	• Install one DPT boring and collect two soil samples for select HSL metals analysis. • Resample MW-1 for select HSL metals.	X	X	Select HSL metals
AOC 6 – Hazardous Waste Storage Area	None	• HSL metals detected in this AOC appear to be naturally occurring. Conduct confirmatory background sampling (see below).	-	-	N/A
Site Wide	Background HSL Metals Soil Sampling	• Install five DPT soil borings and collect ten soil samples for HSL metals analysis to evaluate background metals concentrations.	X		HSL metals
Site Wide	Comprehensive Groundwater Sampling Event	• Conduct a comprehensive groundwater-sampling event.		X	VOCs
Site Wide	Aquifer Testing	• Perform slug tests at six wells and analyze data to estimate aquifer parameters and groundwater velocity.	N/A		
0.5 mile radius of Site	Sensitive Receptor Survey	• Perform walk around well survey and request well information from Alamance County.	N/A		

AOC = Area of Concern
SPLP = Synthetic Precipitation Leaching Procedure
SVOCs = Semi-Volatile Organic Compounds
HSL metals = Hazardous Substance List Metals
VOCs = Volatile Organic Compounds
GW= Groundwater
N/A = Not Applicable
Select HSL metals include: antimony, beryllium, copper, manganese, nickel, thallium and zinc.

6.1.2 Soil Sampling Strategy

The REC Implementation Guidance requires soil analyses for specific lists of individual target compounds for VOCs, SVOCs, and metals. Other compounds must be investigated if suspected to be present. The previous soil assessments did not analyze for the required full suite of the 14 Hazardous Substance List (HSL) metals at most locations.

ERM proposes the following soil assessment activities to meet the requirements of the REC program:

- Background soil sampling (five borings with two samples/boring at discreet depths) for hazardous substance list metals (HSL metals) in the wooded area of the Site (outside recognized AOCs);
- AOC 1 – Four soil borings (up to two samples for select HSL metals, eight samples for VOCs, and eight collocated samples for Synthetic Precipitation Leaching Procedure [SPLP] analysis);

- AOC 2 – One soil boring beneath the slab (up to two samples for select HSL metals);
- AOC 3 – One soil boring (up to two samples for select HSL metals);
- AOC 4 – One soil boring beneath the slab (up to two samples for HSL metals, VOCs, and SVOCs);
- AOC 5 – One soil boring (up to two samples for select HSL metals); and
- AOC 6 – Since soil concentrations appear to be naturally occurring, no further soil assessment is planned.

Background soil samples will be collected for HSL metals analysis in order to characterize naturally-occurring metals concentrations in native soils. The background soil metals concentrations will be used to evaluate the metals analytical results for soil samples collected at the AOCs to distinguish naturally-occurring metals concentrations from potential releases. If the HSL metals results are within the expected range of background concentrations, additional sampling for HSL metals is not necessary.

Previous investigations evaluated the presence of select HSL metals in all AOCs, whereas the REC program requires the evaluation of all HSL metals, a specific list of 14 metals analytes. Therefore, ERM proposes evaluation of the remaining HSL metals analytes (i.e. select HSL metals) in each AOC. Select HSL metals include the following: antimony, beryllium, copper, manganese, nickel, thallium and zinc.

Additional sampling of soil beneath the building slab in AOC 1 will be conducted to develop a Site-specific protection-of-groundwater soil remediation goal and refine the area of VOC-affected soil near GP-14 that may require remediation. Leachable concentrations of VOCs will be determined using SPLP analysis. By correlating total VOC concentrations determined using EPA Method 8260 analysis with the leachable concentrations of VOCs determined by SPLP analysis, a Site-specific protection-of-groundwater soil remediation goal can be determined.

Previous investigations did not include soil sampling beneath the former solvent-based paint storage area (AOC 4). ERM proposes installation of one soil boring beneath the floor slab at AOC 4 to evaluate the potential release of solvent-based painting products. Two samples will be collected from this boring and analyzed for VOCs, SVOCs, and HSL metals.

6.1.2.1 Soil Sampling Methodology

Specific assessment tools and sequence of implementation have been selected for Site investigation. Direct-push technology (DPT) and/or air rotary/split-spoon soil sampling will be utilized to collect soil samples at locations identified on Figure 10. Following collection, soil samples will be sent to an analytical laboratory for quantitative analysis. Analytical results will be compared to

unrestricted use thresholds to evaluate the vertical and horizontal extent of impacted soils.

In accordance with the REC Implementation Guidance, soil samples will be analyzed, as appropriate, using the following analytical methods by an approved analytical laboratory:

- Hazardous substance list metals – EPA SW-846 Method 6010C or 6020A;
- VOCs - EPA SW-846 Method 8260B plus tentatively identified compounds (TICs) with the 10 largest spectral peaks;
- SVOCs EPA SW-846 Method 8270D; and
- Leachable concentrations of VOCs by SPLP – EPA SW-846 Method 1312.

ERM plans to subcontract Accutest Laboratories to perform analytical laboratory testing.

6.1.3 Groundwater Assessment Strategy

The existing monitor well network at the Site provides sufficient characterization of the nature and general extent of VOC-affected groundwater in the shallow saprolite aquifer zone but not in the deeper fractured bedrock aquifer zone. Three additional bedrock monitor wells are proposed to assess the extent of affected groundwater in the bedrock aquifer. Additional groundwater assessment is also proposed to fully delineate the area of most-elevated VOC concentrations in groundwater at the former degreaser area to be targeted for remedial measures. Groundwater assessment for select HSL metals that were not included in previous investigations is also required.

ERM proposes the following groundwater assessment activities:

- AOC 1 - installation of five temporary saprolite monitor wells, two upper-bedrock monitor wells collocated with existing monitor wells MW-1 and MW-16, and resampling of GP-2 for select HSL metals;
- AOC 2 – resampling of GP-2 for select HSL metals;
- AOC 3 – resampling of GP-2 for select HSL metals;
- AOC 4 – resampling of MW-5 and MW-10 for select HSL metals;
- AOC 5 – resampling of MW-1 for select HSL metals;
- AOC-6 – no sampling planned;
- Installation of one background (i.e. upgradient) upper-bedrock monitor well near existing background saprolite monitor well MW-4; and
- A comprehensive groundwater-sampling event including newly installed monitoring wells.

AOC 1 is the only AOC requiring additional borings for groundwater assessment. In order to define the VOC source mass to be targeted for remedial measures, up to six temporary saprolite monitor wells will be installed and

sampled near the estimated AOC 1 source area boundary beneath the manufacturing building slab (Figures 7 and 10).

The current bedrock monitor well network consists of a shallow bedrock and deep bedrock well, DW-1 and DW-2, respectively. DW-2 provides sufficient vertical TCE delineation. However, groundwater samples from DW-1 have shown TCE concentrations in excess of the NC 2L groundwater quality standards. As such, the required upper-bedrock aquifer delineation is incomplete. Installation of two type III upper-bedrock monitor wells, DW-3 and DW-4, collocated with MW-1 and MW-16, respectively, is proposed to evaluate the extent of VOC-affected groundwater in the upper bedrock aquifer. The proposed locations of DW-3 and DW-4 are shown on Figure 10.

An upgradient upper-bedrock aquifer monitor well is also required. ERM proposes to install the background bedrock monitor well (DW-5) near existing monitor well MW-4.

Following installation of the proposed permanent delineation and background wells, a comprehensive groundwater-sampling event will be conducted.

6.1.3.1 Equipment Decontamination

All down-hole drilling equipment will be cleaned with a high pressure, hot water wash unit prior to being brought to the Site. Any paint, rust build-up, hard or caked material that cannot be removed with the high pressure hot water wash will be removed by sand blasting prior to being brought to the Site. Subsequent to delivery to the Site, all down-hole drilling equipment will be cleaned using the Field Equipment Cleaning and Decontamination standard operation procedure (SESDPROC-205-R2, 12-20-2011).

6.1.3.2 Temporary Saprolite Groundwater Well Installation and Construction

Temporary saprolite groundwater monitor wells will be installed using DPT. The wells will be constructed using prepacked well screens with riser pipe to the surface. Following installation and development of the temporary monitor wells groundwater samples will be collected and submitted to an analytical laboratory. After groundwater sampling is complete, the temporary wells will be removed, the boring will be filled with a grout/cement mixture, and the concrete slab will be repaired to conditions similar to those prior to the boring installation.

6.1.3.3 Upper-Bedrock Groundwater Monitor Well Installation

Bedrock monitor well installation methods will involve hollow-stem auger (HSA) drilling methods in saprolite. A combination of HSA and air-rotary drilling methods will likely be necessary in partially weathered rock (PWR).

Once bedrock is encountered during HSA drilling, the drill rig will be converted to air rotary and the borehole will be advanced a minimum of five feet into bedrock. A 6-inch inside diameter (i.d.) welded steel surface casing will be installed. The purpose of the surface casing is to minimize the potential for downhole mixing of any groundwater in the saprolite and PWR zones with groundwater in the bedrock. The surface casing will be seated into the upper five feet of bedrock and grouted using a tremie pipe, pressure packer, or other methods that introduce grout from the base of the annular space to the top of the borehole.

After the grout has cured for a minimum of 24 hours, the integrity of the grout seal will be assessed with a hydrostatic test. If an unacceptable water-level drop is detected, the casing will be re-grouted to the surface and hydrostatically tested. If it is determined that the steel casing cannot adequately seal the overburden from the bedrock, then the rig will offset the location a minimum of 10 feet and a new casing will be installed.

Upon successful completion of hydrostatic testing, the borehole will be advanced to the target depth of 85 feet below grade surface (bgs) using air rotary drilling methods. During air rotary drilling, lithology and information that may indicate potential water-bearing features will be logged/noted by the ERM geologist. This information may include: lost drilling fluid, sudden drop of the drill stem, changes in drilling noise (e.g., rig chatter, hardness of formation, drill times, etc.), and solution features, fractures, healed fractures, and/or the presence of groundwater in drill cuttings.

6.1.3.4 Upper-Bedrock Monitor Well Construction

Each type III monitor well will be constructed of a 6-inch i.d. PVC surface casing, 2-inch i.d. schedule 40 PVC inner casing, and 10 feet of 0.010-inch machine slotted well screen. The screened interval will be placed below the bottom section of the well casing. It is anticipated that total depths for each monitor well will be approximately 85 feet bgs. However, final depths of each monitor well will be determined in the field based on observations by the ERM field geologist.

Following completion of drilling activities, a minimum of two and a maximum of six inches of filter pack material will be added to the base of the borehole. After adding the filter pack material to the base of the borehole, the well screen and casings will be inserted into the borehole. Centralizers will be added to the bottom of the screened interval and at 50-foot intervals. A 20- to 40-mesh primary filter pack will be added around the outside of the screened interval to a depth of a minimum of two feet to a maximum of five feet above the top of the screen. A thin (i.e., 6-inch) secondary filter pack consisting of finer sand will then be added to the top of the primary filter pack. Bentonite pellets, tablets, or chips will be placed on top of the uppermost filter pack and extend a minimum of two feet to a maximum of five feet above the filter pack. The bentonite seal will be

hydrated for at least 8 hours to create a liquid tight seal prior to conducting additional well construction activities. If the bentonite seal is placed above the groundwater level in the borehole, potable water should be added to the borehole to hydrate the bentonite. Once the specified hydration period required for the bentonite has been met, a neat cement or grout/bentonite mixture using Type I/II Portland Cement and high-yield bentonite gel will be pumped into the borehole using the tremie method and allowed to cure for at least 24 hours.

It is anticipated that each monitor well will be completed at the surface with a stick-up, lockable well vault set in a 3-foot by 3-foot concrete pad. However, "stick-up" wells may not be appropriate at each location. If a stick-up well is not appropriate, the surface completion will consist of an appropriately sloped flush mount. Each monitor well will be tagged and labeled with the appropriate well designation, date of install, and total depth.

6.1.3.5 Monitor Well Development and Sampling Methodology

Well development procedures will not be initiated until at least 24 hours have elapsed following completion of monitor well installation. To ensure the monitor wells are adequately developed, ERM will purge at least five well volumes from each well utilizing procedures outlined in the EPA's *Field Branches Quality System and Technical Procedures* (http://www.epa.gov/region4/sesd/fbqstp/). Based on water clarity, it may be necessary to have additional well volumes purged from the well. Water quality parameters will be collected by the ERM field geologist during the well development process and recorded in the field book and/or well development logs.

Not sooner than 24 hours following monitor well development, groundwater samples will be collected from the newly installed monitor wells. Groundwater gauging will also be conducted at this time to prepare an updated potentiometric map of the shallow water table surface.

Monitor well installation, development, sampling and decontamination procedures will be conducted using methods outlined in ERM's standard protocol, the REC Guidance, and the EPA's *Field Branches Quality System and Technical Procedures* (http://www.epa.gov/region4/sesd/fbqstp/).

In accordance with the REC Implementation Guidance, groundwater samples will be analyzed using the following analytical methods, as appropriate:

- Hazardous substance list metals – EPA SW-846 Method 6010C or 6020A;
- Hexavalent chromium – EPA SW-846 Method 3060A;
- VOCs - EPA SW-846 Method 8260B plus tentatively identified compounds (TICs) with the 10 largest spectral peaks; and
- SVOCs EPA SW-846 Method 8270D.

6.1.3.6 *Aquifer Testing*

Previous groundwater assessment activities did not include aquifer testing to determine hydraulic properties. As part of the groundwater monitoring field activities, ERM proposes to perform aquifer testing by the slug test method. Six slug tests will be conducted at the Site (three tests in each hydrogeologic unit) following monitor well installation and sampling. The following aquifer parameters will be derived from the slug tests and updated water level data: hydraulic conductivity, transmissivity, vertical and horizontal groundwater gradients, and groundwater flow velocity.

6.1.4 *Sensitive Receptor Survey*

A sensitive receptor survey (SRS) of surface water bodies, water wells, and other sensitive populations within a radius of 0.5 miles from the Site will be performed, per the requirements of 15A NCAC 13C .0306(g)(6). The SRS will include a visual inspection and a reconnaissance survey of the surrounding area for water meters, well houses, surface water bodies, and other sensitive receptors. In addition, the SRS will include a request from Alamance County for records of wells in the vicinity.

6.1.5 *Comprehensive Groundwater Assessment*

Saprolite aquifer monitor wells GP-2 and MW-1 through MW-15 and upper bedrock aquifer well DW-1 have not been sampled since November 2012 (MW-16 and DW-2 were sampled in 2013). To collect current data and to comply with the REC Implementation Guidance for analytes, ERM will sample each well. The proposed sampling will also serve to establish a new baseline set of groundwater geochemical conditions at the Site. The re-sampling of existing wells will be performed at the same time the newly installed wells are sampled. A summary of the sampling and analysis plan is provided in the following table:

Summary of Comprehensive Groundwater Sampling Program

Well	VOCs	Select HSL Metals[1]	MNA Parameters[2]	Field Parameters[2]
Existing Wells				
GP-2	X	X	X	X
MW-1	X	X	X	X
MW-2	X			X
MW-3	X		X	X
MW-4	X		X	X
MW-5	X	X		X
MW-6	X			X
MW-7	X		X	X
MW-8	X		X	X
MW-9	X		X	X
MW-10	X	X	X	X
MW-11	X			X
MW-12	X			X

MW-13	X			X
MW-14	X			X
MW-15	X			X
MW-16	X		X	X
DW-1	X		X	X
DW-2	X			X
Proposed Wells				
DW-3	X		X	X
DW-4	X		X	X
DW-5	X		X	X

1. *Select HSL metals include: antimony, beryllium, copper, manganese, nickel, thallium and zinc.*
2. *MNA parameters include Nitrate/Nitrite, Sulfate/Sulfite, Iron, Manganese, and Total Organic Carbon*
3. *Field parameters include oxygen reduction potential, dissolved oxygen, specific conductance, and pH*

6.2 INVESTIGATION DERIVED WASTE

Both solid and liquid-phase investigation derived wastes (IDW) will be generated by the field investigation team. Materials that may become IDW and require proper containment and storage include:

- Personnel protective equipment (PPE), including disposable coveralls, gloves, booties, respirator canisters, splash suits, etc.;
- Disposable equipment, including plastic ground and equipment covers, aluminum foil, Teflon tubing, broken or unused sample containers, sample container boxes, tape, etc.;
- Soil cuttings from drilling;
- Decontamination fluids such as spent solvent and wash water; and
- Well development wastes.

All IDW will be segregated according to waste type (e.g., soil, drill cuttings, development water, PPE, etc.). The IDW may be placed in a temporary container (such as a transport hopper, poly tank, etc.) at its point of generation, and then transported to an on-Site IDW storage area. Characterization, transportation and disposal of IDW will be undertaken by ERM in accordance with the REC Implementation Guidance.

6.3 QUALITY ASSURANCE/QUALITY CONTROL

Quality Assurance (QA) and Quality Control (QC) procedures will be used to ensure that technical data generated during sampling activities are accurate, complete and representative of actual field conditions. The QA/QC plan for the RI is included as Appendix H.

6.4 SURVEYING

Soil boring locations will be staked in the field and then surveyed by a professional surveyor, licensed in North Carolina, for incorporation into figures. Soil boring locations inside the building will be field measured by ERM

personnel using a tape measure and corresponding distances from walls and other landmarks. The locations of newly installed monitor wells, their top of casing elevation, and the ground surface elevation will also be surveyed by a licensed professional surveyor. ERM plans to subcontract Taylor, Wiseman, & Taylor as the licensed professional surveyor.

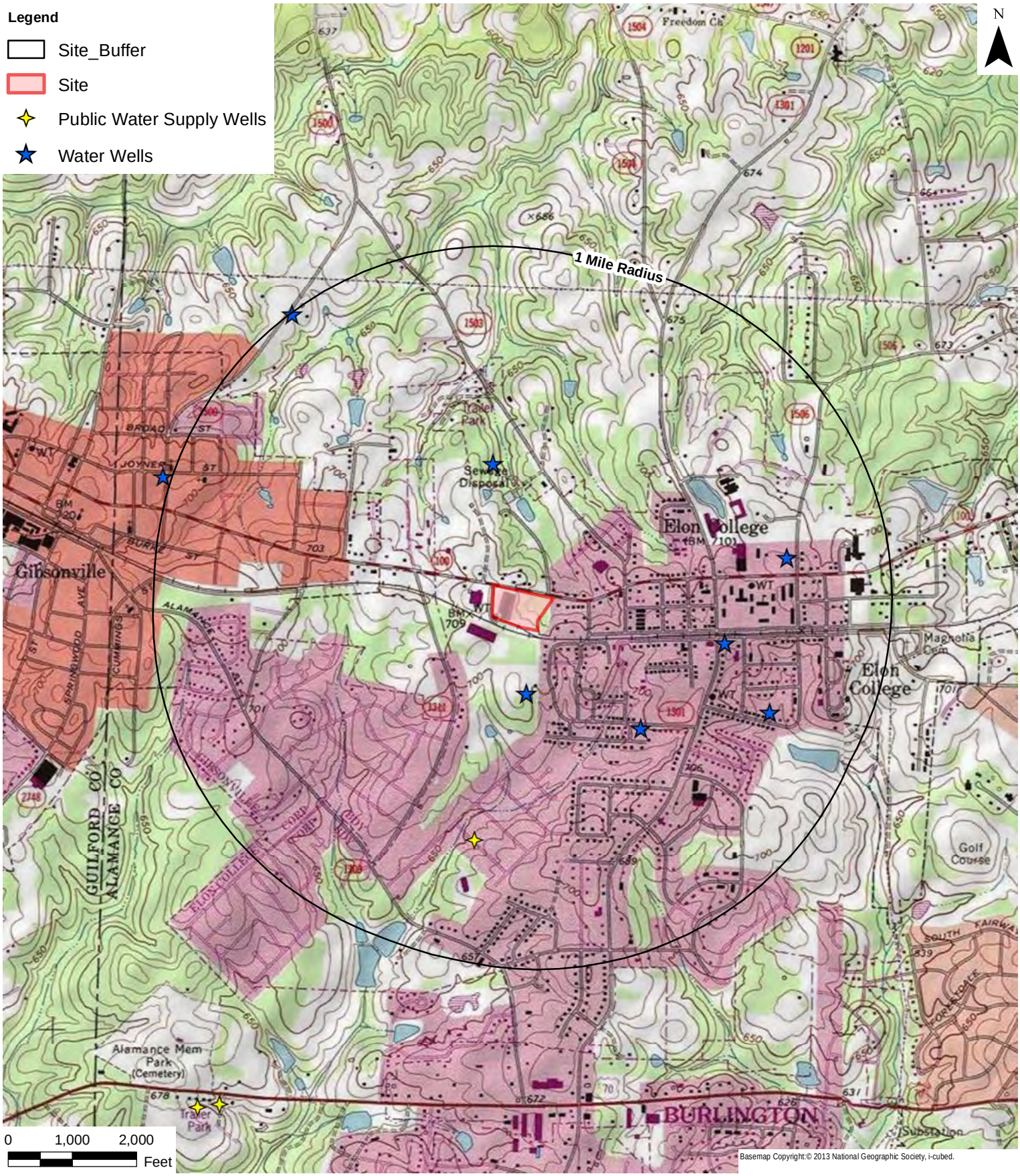
6.5 HEALTH AND SAFETY

ERM has prepared a Health and Safety Plan (HASP) for the protection of on-site workers, the surrounding community, and the environment from site investigation activities. The HASP includes measures to control hazardous substances that may be generated from investigation-derived wastes (e.g. soil and water). A copy of the HASP is included in Appendix I.

6.6 REMEDIAL INVESTIGATION REPORT

Upon completion of the RI soil and groundwater assessment activities, ERM will prepare a report summarizing field activities and analytical results for soil and groundwater sample collection.

Figures



ERM NC, Inc.

DATE: 3/27/2014	SCALE: AS SHOWN	DRAWN: A Freeman
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FIGURE 1
SITE LOCATION MAP

ECI - 100 Rego Road, Elon

Engineered Controls International, Inc

Alamance County, North Carolina

Basemap NC OneMap, NC Center for Geographic Information and Analysis, NC 911 Board.

ERM NC, Inc.

SCALE: AS SHOWN DRAWN: A Freeman DATE: 3/27/2014

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FIGURE 2
SITE MAP

ECI - 100 Rego Road, Elon
Engineered Controls International, Inc
Alamance County, North Carolina

Basemap NC OneMap, NC Center for Geographic Information and Analysis, NC 911 Board.

ERM

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FIGURE 3
ADJACENT PROPERTIES MAP
ECI - 100 Rego Road, Elon
Engineered Controls International, Inc
Alamance County, North Carolina

ERM NC, Inc.

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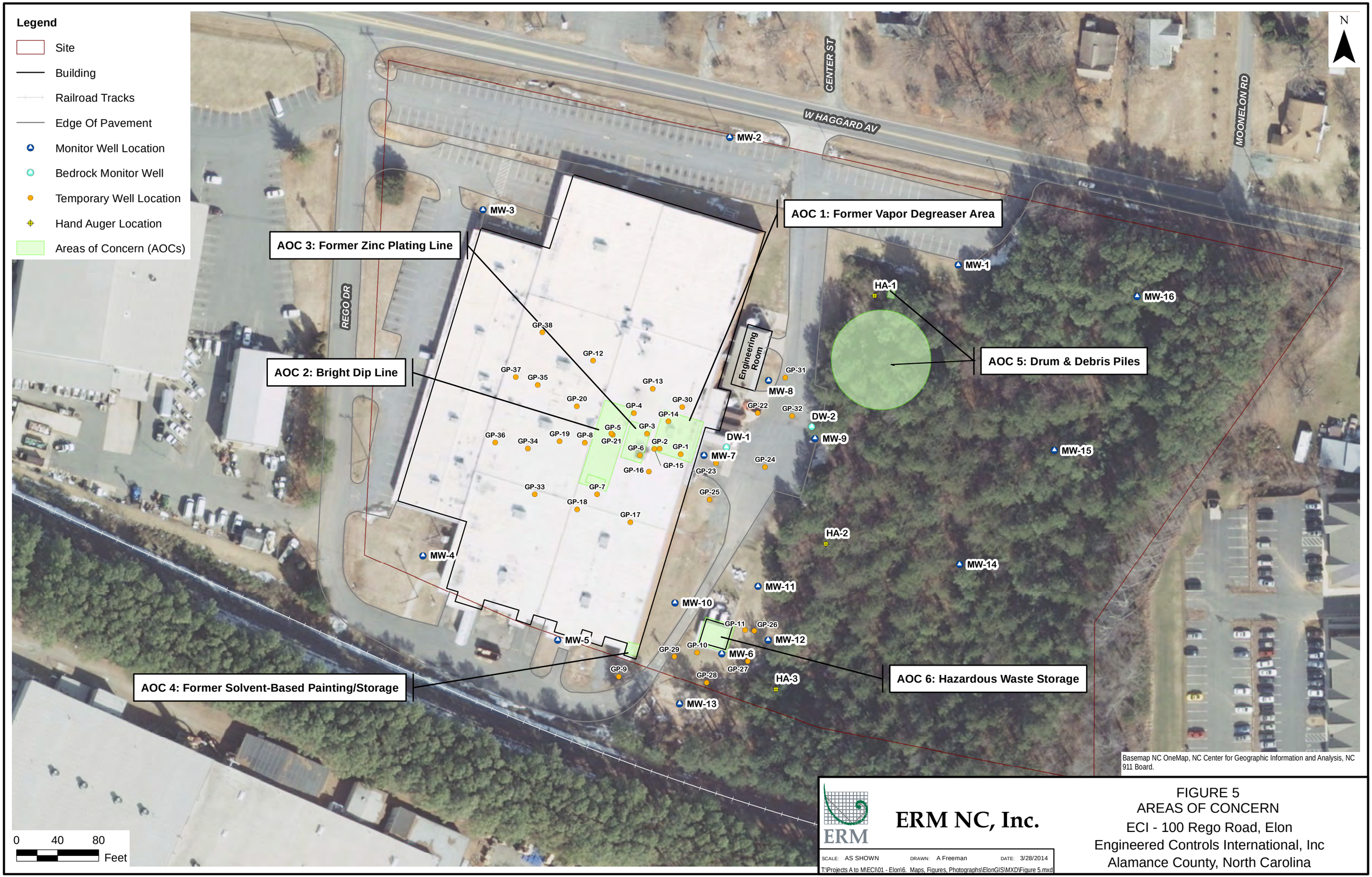
FIGURE 4
GW ELEVATION CONTOUR MAP - March 2013
ECI - 100 Rego Road, Elon
Engineered Controls International, Inc
Alamance County, North Carolina



Basemap NC OneMap, NC Center for Geographic Information and Analysis, NC 911 Board.

ERM NC, Inc.

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FIGURE 5
AREAS OF CONCERN
ECI - 100 Rego Road, Elon
Engineered Controls International, Inc
Alamance County, North Carolina

ERM NC, Inc.

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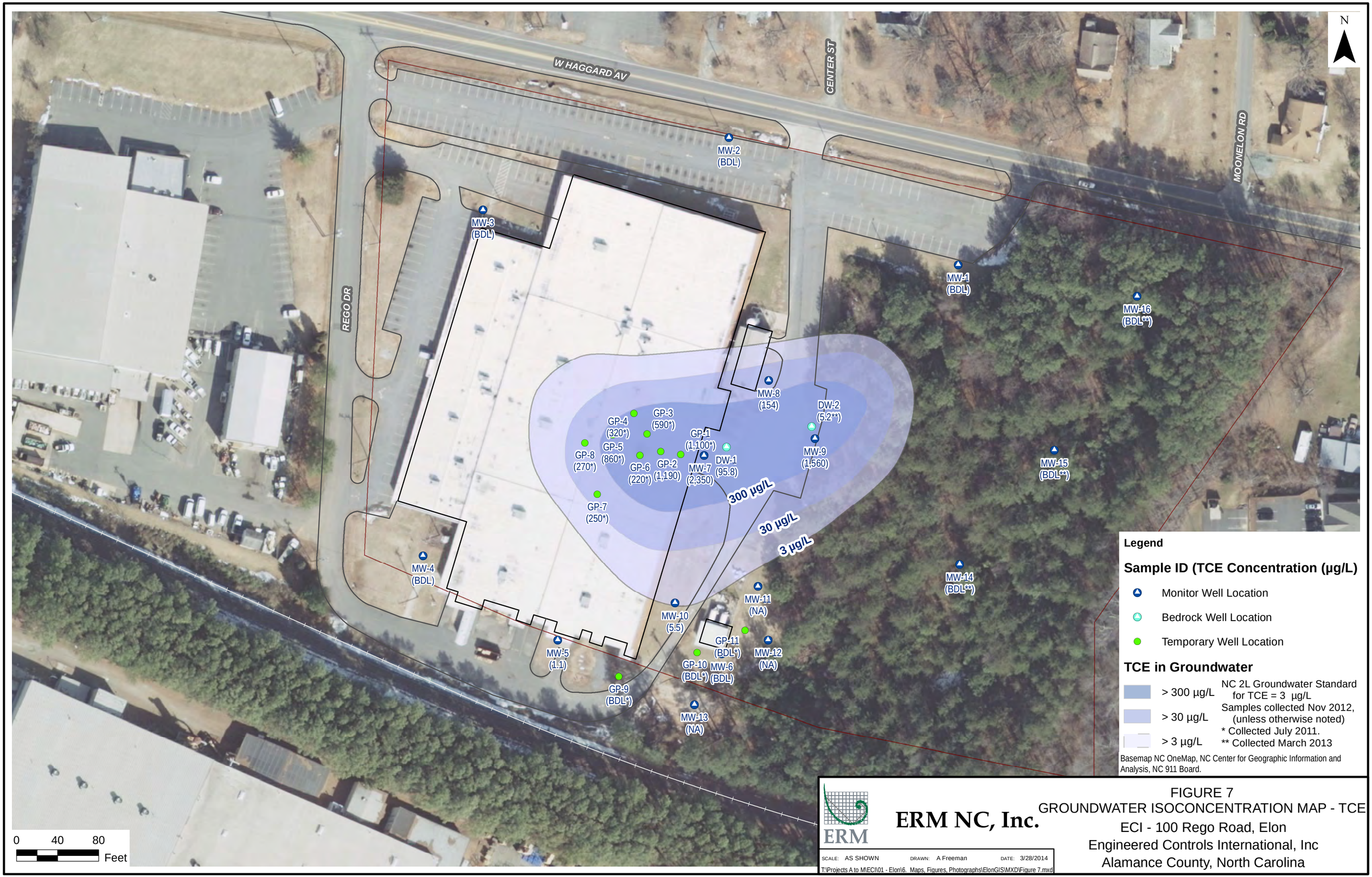
FIGURE 6
SOIL ISOCONCENTRATION MAP - TCE
ECI - 100 Rego Road, Elon
Engineered Controls International, Inc
Alamance County, North Carolina



ERM NC, Inc.

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FIGURE 7
GROUNDWATER ISOCONCENTRATION MAP - TCE
ECI - 100 Rego Road, Elon
Engineered Controls International, Inc
Alamance County, North Carolina

Basemap NC OneMap, NC Center for Geographic Information and Analysis, NC 911 Board.

ERM NC, Inc.

SCALE: AS SHOWN DRAWN: A Freeman DATE: 3/27/2014

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FIGURE 8
SOIL METALS SAMPLE LOCATIONS
ECI - 100 Rego Road, Elon
Engineered Controls International, Inc
Alamance County, North Carolina

Legend

- Monitor Well Location
- Bedrock Monitor Well
- Temporary Well Location
- Site
- Building
- Railroad Tracks
- Edge Of Pavement

Groundwater Samples Analyzed for Metals

Full HSL Metals Analyzed

Partial HSL Metals Analyzed

Metals Not Sampled

HSL = Hazardous Substance List

Basemap NC OneMap, NC Center for Geographic Information and Analysis, NC 911 Board.

ERM

ERM NC, Inc.

SCALE: AS SHOWN DRAWN: A Freeman DATE: 3/27/2014

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FIGURE 9
GROUNDWATER METALS SAMPLE LOCATIONS
ECI - 100 Rego Road, Elon
Engineered Controls International, Inc
Alamance County, North Carolina

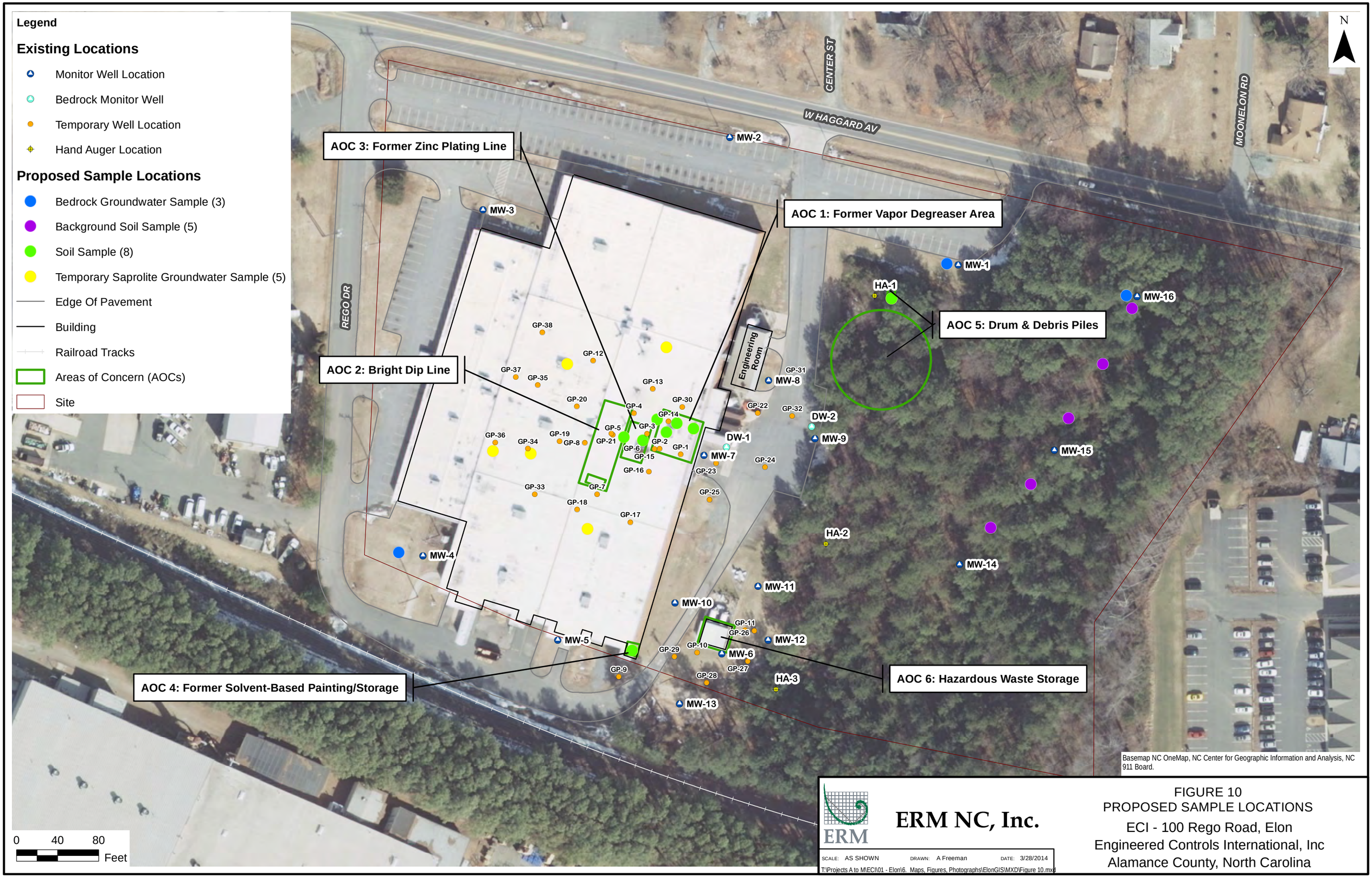

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FIGURE 10
PROPOSED SAMPLE LOCATIONS
ECI - 100 Rego Road, Elon
Engineered Controls International, Inc
Alamance County, North Carolina

Tables

Table 1. Summary of Historical Soil Results
ECI-Elon Facility
Elon, North Carolina

Sample ID	Sample Depth (ft)	Date Sampled	VOCs - Method 5035A/8260B (mg/kg)					SVOCs - Method 8270C/8270D (mg/kg)	Metals - Method 6010B/7471 (mg/kg)																TPH - Method 8015D and 3546/DRO (mg/kg)	
			Acetone	Chloroform	cis-1, 2-Dichloroethene	Tetrachloroethene	Trichloroethene	All Parameters	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium, Total	Chromium VI	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Zinc	Gasoline Range - GRO	Diesel Range - DRO
Delineation Criteria - Residential Unrestricted Use			*12000*	*0.29*	*32*	*17*	*0.88*	*Varies*	*6.2*	*0.39*	*3000*	*32*	*14*	*24000*	*0.29*	*620*	*400*	*360*	*2*	*300*	*78*	*78*	*0.61*	*4600*	*10**	*40**
PSRGs - Industrial			*100000*	*1.5*	*400*	*82*	*4*	*Varies*	*82*	*1.6*	*38000*	*400*	*160*	*100000*	*5.6*	*8200*	*800*	*4600*	*3.1*	*4000*	*1000*	*1000*	*2*	*62000*		
PSRGs - Protection of Groundwater			*24*	*0.34*	*0.36*	*0.005*	*0.018*	*Varies*	*0.9*	*5.8*	*580*	*63*	*3*	*360000*	*3.8*	*700*	*270*	*65*	*1*	*130*	*2.1*	*3.4*	*0.28*	*1200*		
MW-1	5-7'	07/19/11	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	43	NA	BDL	34	NA	NA	36	NA	0.048	NA	4	0.66	NA	NA	NA	NA
MW-2	3-5'	07/19/11	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	36	NA	BDL	17	NA	NA	19	NA	BDL	NA	BDL	BDL	NA	NA	NA	NA
MW-3	5-7'	07/19/11	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	20	NA	BDL	11	NA	NA	8.7	NA	0.029	NA	12	BDL	NA	NA	NA	NA
MW-4	8-10'	07/19/11	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	31	NA	BDL	81	NA	NA	10	NA	0.1	NA	5.8	1.2	NA	NA	BDL	BDL
MW-5	3-5'	07/19/11	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	24	NA	BDL	140	BDL	NA	10	NA	0.037	NA	7.8	BDL	NA	NA	NA	NA
MW-6	0-2'	07/19/11	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	54	NA	BDL	48	NA	NA	8.7	NA	0.03	NA	5.4	0.85	NA	NA	NA	NA
MW-7	3-5'	07/19/11	BDL	BDL	0.078	BDL	0.11	BDL	NA	BDL	22	NA	BDL	57	NA	NA	10	NA	BDL	NA	4.4	0.65	NA	NA	NA	NA
MW-7	18-20'	07/19/11	BDL	BDL	0.066	BDL	BDL	BDL	NA	BDL	68	NA	BDL	62	NA	NA	3.2	NA	BDL	NA	10	BDL	NA	NA	NA	BDL
HA-1	0-1'	07/20/11	BDL	BDL	BDL	BDL	BDL	BDL	NA	**1.4**	63	NA	BDL	50	NA	NA	19	NA	0.04	NA	BDL	BDL	NA	NA	BDL	17
HA-2	0-1'	07/20/11	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	61	NA	BDL	43	NA	NA	12	NA	0.034	NA	BDL	BDL	NA	NA	BDL	17
HA-3	0-1'	07/20/11	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	290	NA	BDL	68	NA	NA	44	NA	BDL	NA	BDL	BDL	NA	NA	BDL	7.1
GP-1	5-7'	07/20/11	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	22	NA	BDL	49	NA	NA	11	NA	0.028	NA	3.6	BDL	NA	NA	BDL	BDL
GP-1	38-40'	07/20/11	NA	NA	NA	NA	NA	BDL	NA	BDL	120	NA	BDL	78	NA	NA	BDL	NA	BDL	NA	12	BDL	NA	NA	BDL	BDL
GP-2	5-7'	07/20/11	BDL	BDL	BDL	BDL	0.0048	NA	NA	BDL	27	NA	BDL	100	BDL	NA	8.6	NA	0.039	NA	BDL	BDL	NA	NA	BDL	BDL
GP-2	18-20'	07/20/11	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-2	35-36'	07/20/11	BDL	BDL	BDL	0.0029	0.16	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-3	1-3'	07/20/11	BDL	BDL	BDL	BDL	0.026	BDL	NA	BDL	38	NA	BDL	44	NA	NA	14	NA	0.05	NA	1.6	BDL	NA	20	BDL	BDL
GP-4	1-3'	07/20/11	BDL	BDL	BDL	BDL	0.02	BDL	NA	BDL	25	NA	BDL	41	NA	NA	6.9	NA	0.067	NA	4.5	BDL	NA	NA	NA	NA
GP-5	13-15'	07/20/11	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	21	NA	BDL	16	NA	NA	5.9	NA	BDL	NA	BDL	BDL	NA	6.9	BDL	BDL
GP-6	10-12'	07/21/11	BDL	BDL	BDL	BDL	0.0016	BDL	NA	BDL	26	NA	BDL	210	BDL	NA	BDL	NA	0.057	NA	24	BDL	NA	NA	BDL	BDL
GP-7	13-15'	07/21/11	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	150	NA	BDL	140	NA	NA	BDL	NA	BDL	NA	22	BDL	NA	NA	BDL	BDL
GP-7	30-32'	07/21/11	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-8	10-12'	07/21/11	BDL	BDL	BDL	BDL	0.0031	BDL	NA	BDL	32	NA	BDL	48	NA	NA	6.7	NA	0.034	NA	21	BDL	NA	NA	BDL	BDL
GP-9	1-3'	07/21/11	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	30	NA	BDL	48	NA	NA	4.6	NA	0.16	NA	15	BDL	NA	NA	BDL	BDL
GP-10	1-3'	07/22/11	BDL	BDL	BDL	BDL	BDL	BDL	NA	**2**	33	NA	BDL	150	NA	NA	14	NA	**2.3**	NA	10	BDL	NA	NA	NA	NA
GP-11	8-10'	07/22/11	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	33	NA	BDL	88	NA	NA	21	NA	0.041	NA	15	BDL	NA	NA	BDL	BDL
GP-12	6"	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-12	5'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-12	10'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-12	15'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-12	20'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-12	25'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-12	30'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-12	35'	-	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-13	6"	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-13	5'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-13	10'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-13	15'	11/14/12	0.166	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-13	20'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-13	25'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-13	30'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-13	35'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-14	6"	11/14/12	0.14	0.0161	BDL	BDL	0.462	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-14	5'	11/14/12	BDL	0.0121	0.0089	BDL	**9.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-14	10'	11/14/12	BDL	BDL	0.0126	BDL	0.232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-14	15'	11/14/12	0.182	BDL	0.0194	BDL	0.391	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-14	20'	11/14/12	BDL	BDL	BDL	BDL	0.0897	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-14	25'	11/14/12	BDL	BDL	BDL	BDL	0.0811	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-14	30'	11/14/12	BDL	BDL	BDL	BDL	0.106	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-14	35'	11/14/12	BDL	BDL	BDL	0.0077	0.227	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-15	6"	11/14/12	0.151	BDL	BDL	BDL	0.0349	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-15	5'	11/14/12	BDL	BDL	BDL	BDL	0.0348	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-15	10'	11/14/12	BDL	BDL	0.0124	BDL	0.172	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-15	15'	11/14/12	BDL	BDL	BDL	BDL	0.0306	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-15	20'	11/14/12	BDL	BDL	BDL	BDL	0.135	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-15	25'	11/14/12	BDL	BDL	BDL	BDL	0.0375	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Sample ID	Sample Depth (ft)	Date Sampled	VOCs - Method 5035A/8260B (mg/kg)					SVOCs - Method 8270C/8270D (mg/kg)	Metals - Method 6010B/7471 (mg/kg)																TPH - Method 8015D and 3546/DRO (mg/kg)	
			Acetone	Chloroform	cis-1, 2-Dichloroethene	Tetrachloroethene	Trichloroethene	All Parameters	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium, Total	Chromium VI	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Zinc	Gasoline Range - GRO	Diesel Range - DRO
Delineation Criteria - Residential Unrestricted Use			*12000*	*0.29*	*32*	*17*	*0.88*	*Varies*	*6.2*	*0.39*	*3000*	*32*	*14*	*24000*	*0.29*	*620*	*400*	*360*	*2*	*300*	*78*	*78*	*0.61*	*4600*	*10**	*40**
PSRGs - Industrial			*100000*	*1.5*	*400*	*82*	*4*	*Varies*	*82*	*1.6*	*38000*	*400*	*160*	*100000*	*5.6*	*8200*	*800*	*4600*	*3.1*	*4000*	*1000*	*1000*	*2*	*62000*		
PSRGs - Protection of Groundwater			*24*	*0.34*	*0.36*	*0.005*	*0.018*	*Varies*	*0.9*	*5.8*	*580*	*63*	*3*	*360000*	*3.8*	*700*	*270*	*65*	*1*	*130*	*2.1*	*3.4*	*0.28*	*1200*		
GP-15	30'	11/14/12	BDL	BDL	BDL	BDL	0.026	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-15	35'	11/14/12	BDL	BDL	BDL	0.0107	0.414	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-16	6"	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-16	5'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-16	10'	11/14/12	0.115	BDL	BDL	BDL	0.0145	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-16	15'	11/14/12	BDL	BDL	BDL	BDL	0.0062	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-16	20'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-16	25'	11/14/12	BDL	BDL	BDL	BDL	0.0122	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-16	30'	11/14/12	BDL	BDL	BDL	BDL	0.0216	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-16	35'	11/14/12	BDL	BDL	BDL	BDL	0.0441	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-17	6"	11/14/12	0.109	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-17	5'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-17	10'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-17	15'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-17	20'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-17	25'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-17	30'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-17	35'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-18	6"	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-18	5'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-18	10'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-18	15'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-18	20'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-18	25'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-18	30'	11/14/12	BDL	BDL	BDL	BDL	0.0092	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-18	35'	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-19	6"	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-19	5'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-19	10'	11/14/12	BDL	BDL	BDL	0.0051	0.0444	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-19	15'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-19	20'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-19	25'	11/14/12	BDL	BDL	BDL	BDL	0.0404	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-19	30'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-19	35'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-20	6"	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-20	5'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-20	10'	11/14/12	BDL	BDL	BDL	BDL	0.044	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-20	15'	11/14/12	BDL	BDL	BDL	BDL	0.0202	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-20	20'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-20	25'	11/14/12	BDL	BDL	BDL	BDL	0.0169	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-20	30'	11/14/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-20	35'	11/14/12	BDL	BDL	BDL	BDL	0.009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-21	6"	11/14/12	0.232	0.0119	BDL	0.0262	0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-21	5'	11/14/12	BDL	0.0061	BDL	0.0196	0.113	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-21	10'	11/14/12	BDL	BDL	BDL	BDL	0.0243	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-21	15'	11/14/12	BDL	BDL	BDL	BDL	0.0611	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-21	20'	11/14/12	BDL	BDL	BDL	BDL	0.0074	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-21	25'	11/14/12	BDL	BDL	BDL	BDL	0.0125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-21	30'	11/14/12	BDL	BDL	BDL	BDL	0.0747	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-21	35'	11/14/12	BDL	BDL	BDL	BDL	0.136	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-22	6"	11/14/12	BDL	BDL	0.0333	BDL	0.0713	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-22	5'	11/14/12	BDL	BDL	0.0472	BDL	0.0362	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-22	10'	11/14/12	BDL	BDL	0.0693	BDL	0.0537	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-22	15'	11/14/12	BDL	BDL	0.294	BDL	0.0215	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-22	20'	11/14/12	BDL	BDL	0.0931	BDL	0.0175	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-22	25'	11/14/12	BDL	BDL	0.085	BDL	0.0076	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-22	30'	11/14/12	BDL	BDL	0.0306	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-22	35'	11/14/12	-	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-23	6"	11/14/12	BDL	BDL	0.0612	BDL	0.157	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-23	5'	11/14/12	BDL	BDL	0.0399	BDL	0.0654	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Sample ID	Sample Depth (ft)	Date Sampled	VOCs - Method 5035A/8260B (mg/kg)					SVOCs - Method 8270C/8270D (mg/kg)	Metals - Method 6010B/7471 (mg/kg)																TPH - Method 8015D and 3546/DRO (mg/kg)	
			Acetone	Chloroform	cis-1, 2-Dichloroethene	Tetrachloroethene	Trichloroethene	All Parameters	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium, Total	Chromium VI	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Zinc	Gasoline Range - GRO	Diesel Range - DRO
Delineation Criteria - Residential Unrestricted Use			*12000*	*0.29*	*32*	*17*	*0.88*	*Varies*	*6.2*	*0.39*	*3000*	*32*	*14*	*24000*	*0.29*	*620*	*400*	*360*	*2*	*300*	*78*	*78*	*0.61*	*4600*	*10**	*40**
PSRGs - Industrial			*100000*	*1.5*	*400*	*82*	*4*	*Varies*	*82*	*1.6*	*38000*	*400*	*160*	*100000*	*5.6*	*8200*	*800*	*4600*	*3.1*	*4000*	*1000*	*1000*	*2*	*62000*		
PSRGs - Protection of Groundwater			*24*	*0.34*	*0.36*	*0.005*	*0.018*	*Varies*	*0.9*	*5.8*	*580*	*63*	*3*	*360000*	*3.8*	*700*	*270*	*65*	*1*	*130*	*2.1*	*3.4*	*0.28*	*1200*		
GP-23	10'	11/14/12	BDL	BDL	0.116	BDL	0.0182	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-23	15'	11/14/12	BDL	BDL	0.0872	BDL	0.0214	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-23	20'	11/14/12	BDL	BDL	0.043	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-23	25'	11/14/12	BDL	BDL	0.0881	BDL	0.0219	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-23	30'	11/14/12	BDL	BDL	0.151	BDL	0.0548	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-23	35'	11/14/12	-	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-24	6"	11/08/12	BDL	BDL	BDL	BDL	0.0148	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-24	5'	11/08/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-24	10'	11/08/12	BDL	BDL	0.0184	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-24	15'	11/08/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-24	20'	11/08/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-24	25'	11/08/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-24	30'	11/08/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-24	35'	-	-	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-25	6"	11/08/12	0.158	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-25	5'	11/08/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-25	10'	11/08/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-25	15'	11/08/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-25	20'	11/08/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-25	25'	11/08/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-25	30'	11/08/12	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-25	35'	-	-	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	6"	11/08/12	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	0.15	BDL	19.4	BDL	15.2	14.1	220	0.032	2.1	BDL	BDL	BDL	14	NA	NA
GP-26	5'	11/08/12	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	0.17	0.25	28.9	BDL	11.8	11	153	0.087	1.4	1.6	BDL	BDL	9.8	NA	NA
GP-26	10'	11/08/12	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	16.3	BDL	7.3	5.4	25.8	0.012	0.87	1.2	BDL	BDL	5.8	NA	NA
GP-26	15'	11/08/12	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	7.8	BDL	7.1	1.9	103	0.011	0.9	BDL	BDL	BDL	20.7	NA	NA
GP-26	20'	11/08/12	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	0.17	BDL	6	BDL	11.2	2.6	247	BDL	5.3	BDL	BDL	BDL	25.5	NA	NA
GP-26	25'	11/08/12	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	1.9	BDL	93.7	BDL	42.4	4.9	**1270**	BDL	48.2	9.5	BDL	BDL	110	NA	NA
GP-26	30'	11/08/12	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	1.1	0.63	62.7	BDL	26	3.8	**611**	BDL	33.4	BDL	BDL	BDL	93.2	NA	NA
GP-26	35'	-	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	NA
GP-27	6"	11/08/12	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	0.27	1	34.2	BDL	73	11.8	195	0.035	3.7	1.9	BDL	BDL	97.8	NA	NA
GP-27	5'	11/08/12	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	34.2	BDL	5.2	5	14.7	0.078	BDL	1.6	BDL	BDL	2.9	NA	NA
GP-27	10'	11/08/12	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	0.18	0.99	67.2	BDL	16.4	13.2	9.6	0.027	1.1	1.6	BDL	BDL	7.4	NA	NA
GP-27	15'	11/08/12	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	0.53	1.6	19.6	BDL	16.6	29.7	261	0.0093	3	3.1	BDL	BDL	23.3	NA	NA
GP-27	20'	11/08/12	NA	NA	NA	NA	NA	NA	0.82	BDL	BDL	0.6	0.57	9.6	BDL	9.3	9	**561**	0.0061	3.9	BDL	BDL	BDL	101	NA	NA
GP-27	25'	11/08/12	NA	NA	NA	NA	NA	NA	BDL	**0.73**	BDL	1.3	0.89	14.6	BDL	18.3	171	**9960**	0.0083	136	3.5	BDL	BDL	232	NA	NA
GP-27	30'	11/08/12	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	0.56	0.21	4.9	BDL	4.3	13.9	**452**	BDL	1.7	BDL	BDL	BDL	111	NA	NA
GP-27	35'	-	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	NA
GP-28	6"	11/08/12	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	0.3	2.3	41.8	BDL	83.2	14.3	338	0.029	3.8	1.6	BDL	BDL	61.9	NA	NA
GP-28	5'	11/08/12	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	0.31	1	275	BDL	5.8	14.9	247	0.034	1.5	1.4	BDL	BDL	6.3	NA	NA
GP-28	10'	11/08/12	NA	NA	NA	NA	NA	NA	BDL	**1.6**	BDL	0.15	0.85	20.9	BDL	8.3	7.4	81.1	0.029	1.3	2	BDL	BDL	7.1	NA	NA
GP-28	15'	11/08/12	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	0.22	1.8	53.1	BDL	33	4.8	12.5	0.043	2.3	2	BDL	BDL	20.5	NA	NA
GP-28	20'	11/08/12	NA	NA	NA	NA	NA	NA	BDL	**0.68**	BDL	0.15	BDL	2.9	BDL	15.6	2.7	151	0.0073	2.7	BDL	BDL	BDL	35.8	NA	NA
GP-28	25'	11/08/12	NA	NA	NA	NA	NA	NA	BDL	**0.6**	BDL	0.29	BDL	4	BDL	7.5	4.8	**383**	0.0073	7.3	BDL	BDL	BDL	46.6	NA	NA
GP-28	30'	11/08/12	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	0.3	BDL	2	BDL	2.7	4.8	355	BDL	4.7	BDL	BDL	BDL	54.7	NA	NA
GP-28	35'	-	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	NA
GP-29	6"	11/08/12	NA	NA	NA	NA	NA	NA	BDL	**0.8**	BDL	0.28	1.5	34.6	BDL	20.1	13.6	318	0.023	3	1.8	BDL	BDL	20.5	NA	NA
GP-29	5'	11/08/12	NA	NA	NA	NA	NA	NA	BDL	**1.5**	BDL	0.23	0.87	34.2	BDL	15.4	8.4	156	0.032	2.8	1.2	BDL	BDL	11.4	NA	NA
GP-29	10'	11/08/12	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	0.6	8.6	75.7	BDL	46.8	13.5	181	0.039	4.4	4.2	BDL	BDL	28.1	NA	NA
GP-29	15'	11/08/12	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	1.9	8.9	16.5	BDL	93.3	9.8	**660**	0.018	10	3.5	BDL	BDL	38.4	NA	NA
GP-29	20'	11/08/12	NA	NA	NA	NA	NA	NA	0.77	BDL	BDL	2.2	5.6	5.7	BDL	96.8	6.4	**825**	0.015	13.1	2.8	BDL	BDL	48.4	NA	NA
GP-29	25'	11/08/12	NA	NA	NA	NA	NA	NA	BDL	**1.2**	BDL	1.5	1.3	BDL	BDL	87	3.2	**414**	BDL	12.3	1.6	BDL	BDL	79.2	NA	NA
GP-29	30'	11/08/12	NA	NA	NA	NA	NA	NA	BDL	**1.7**	BDL	1.4	0.5	9.9	BDL	63.4	BDL	342	BDL	20.9	3.6	BDL	BDL	138	NA	NA
GP-29	35'	-	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	NA
GP-30	6"	-	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-30	5'	-	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-30	10'	02/12/13	BDL	BDL	0.0079	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-30	15'	-	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-30	20'	02/12/13	BDL	BDL	BDL	BDL	0.009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-30	25'	02/12/13	BDL	BDL	BDL	BDL	0.0199	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

			VOCs - Method 5035A/8260B (mg/kg)					SVOCs - Method 8270C/8270D (mg/kg)	Metals - Method 6010B/7471 (mg/kg)																TPH - Method 8015D and 3546/DRO (mg/kg)	
Sample ID	**Sample Depth (ft)**	**Date Sampled**	Acetone	Chloroform	cis-1, 2-Dichloroethene	Tetrachloroethene	Trichloroethene	All Parameters	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium, Total	Chromium VI	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Zinc	Gasoline Range - GRO	Diesel Range - DRO
Delineation Criteria - Residential Unrestricted Use			*12000*	*0.29*	*32*	*17*	*0.88*	*Varies*	*6.2*	*0.39*	*3000*	*32*	*14*	*24000*	*0.29*	*620*	*400*	*360*	*2*	*300*	*78*	*78*	*0.61*	*4600*	*10**	*40**
PSRGs - Industrial			*100000*	*1.5*	*400*	*82*	*4*	*Varies*	*82*	*1.6*	*38000*	*400*	*160*	*100000*	*5.6*	*8200*	*800*	*4600*	*3.1*	*4000*	*1000*	*1000*	*2*	*62000*		
PSRGs - Protection of Groundwater			*24*	*0.34*	*0.36*	*0.005*	*0.018*	*Varies*	*0.9*	*5.8*	*580*	*63*	*3*	*360000*	*3.8*	*700*	*270*	*65*	*1*	*130*	*2.1*	*3.4*	*0.28*	*1200*		
GP-30	30'	02/12/13	BDL	BDL	BDL	BDL	0.0242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-30	35'	02/12/13	BDL	BDL	BDL	BDL	0.0566	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-31	6"	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-31	5'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-31	10'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-31	15'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-31	20'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-31	25'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-31	30'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-31	35'	-	-	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-32	6"	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-32	5'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-32	10'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-32	15'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-32	20'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-32	25'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-32	30'	-	-	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-32	35'	-	-	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-33	6"	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-33	5'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-33	10'	02/12/13	BDL	BDL	BDL	BDL	0.0195	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-33	15'	02/12/13	BDL	BDL	BDL	BDL	0.0134	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-33	20'	-	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-33	25'	02/12/13	BDL	BDL	BDL	BDL	0.0133	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-33	30'	02/12/13	BDL	BDL	BDL	BDL	0.0128	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-33	35'	-	-	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-34	6"	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-34	5'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-34	10'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-34	15'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-34	20'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-34	25'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-34	30'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-34	35'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-35	6"	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-35	5'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-35	10'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-35	15'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-35	20'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-35	25'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-35	30'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-35	35'	02/12/13	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
Only detected compounds are listed.
Soil criteria listed in NCDENR Inactive Hazardous Waste Sites preliminary soil remediation goals
BDL: Below Laboratory Detection Limit; NA: Not Analyzed; NE: Not Established
VOCs: Volatile organic compounds; SVOCs: Semi-Volatile organic compounds; TPH: Total Petroleum Hydrocarbons
mg/kg is approximately equivalent to parts per millon (ppm)
* Non-UST Program Action Levels
BOLD values exceed Delineation Criteria
Highlighted values exceed Preliminary Industrial PSRGs
Outlined values exceed Protection of Groundwater PSRGs

Table 2. Summary of Historical Groundwater Results
ECI-Elon Facility
Elon, North Carolina

Sample ID	Date Sampled	VOCs - Method 5035A/8260B (ug/L)										SVOCs- Method 8270C/8270D (ug/L)				Dissolved Metals - Method 6010B/7471 (ug/L)															TPH - Method 8015D and 3546/DRO (ug/L)	
		All Parameters	Acetone	Bromodichloromethane	Chloroform	cis-1, 2-Dichloroethene	Ethylbenzene	Tetrachloroethene	Toluene	Trichloroethene	Xylene (Total)	All Parameters	Benzylbutyl phthalate	Bis (2-ethylhexyl) phthalate	Diethyl phthalate	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium, Total	Chromium VI	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Zinc	Gasoline Range - GRO	Diesel Range - DRO
NC2L Groundwater Quality Standards		*Varies*	*6,000*	*0.6*	*70*	*70*	*600*	*0.7*	*600*	*3*	*500*	*Varies*	*NE*	*3*	*6,000*	*NE*	*10*	*700*	*NE*	*2*	*10*		*1,000*	*15*	*50*	*1*	*100*	*20*	*20*	*NE*	*1,000*	*400 (C5 to C9) **	*700 (C9 to C18)**
GP-1	07/20/11	-	BDL	BDL	BDL	BDL	BDL	54	BDL	1,100	BDL	BDL	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	670	120
GP-2	07/21/11	-	BDL	BDL	BDL	BDL	BDL	58	BDL	1,400	BDL	-	BDL	BDL	1.4	NA	BDL	83	NA	BDL	BDL	NA	NA	7.5	NA	BDL	NA	BDL	BDL	NA	31	670	120
GP-2	11/07/12	-	BDL	BDL	2.6	BDL	BDL	81.6	BDL	1,190	BDL	BDL	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	610	NA
GP-3	07/21/11	-	BDL	BDL	BDL	BDL	BDL	25	BDL	590	BDL	-	BDL	BDL	5.4	NA	BDL	60	NA	BDL	BDL	NA	NA	BDL	NA	BDL	NA	BDL	BDL	NA	NA	330	12
GP-4	07/22/11	-	BDL	BDL	5.4	BDL	BDL	11	BDL	320	BDL	-	1.6	BDL	BDL	NA	BDL	23	NA	18	BDL	NA	NA	5.1	NA	BDL	NA	BDL	BDL	NA	NA	NA	NA
GP-5	07/22/11	-	BDL	2.1	BDL	BDL	BDL	26	BDL	860	BDL	-	BDL	BDL	1.7	NA	BDL	38	NA	BDL	BDL	NA	NA	BDL	NA	BDL	NA	BDL	BDL	NA	NA	NA	NA
GP-6	07/19/11	-	BDL	BDL	BDL	BDL	BDL	5.6	BDL	220	BDL	BDL	-	-	-	NA	BDL	21	NA	BDL	BDL	NA	NA	BDL	NA	BDL	NA	BDL	BDL	NA	BDL	NA	NA
GP-7	07/22/11	-	BDL	BDL	BDL	BDL	BDL	30	BDL	250	BDL	BDL	-	-	-	NA	BDL	59	NA	BDL	BDL	NA	NA	BDL	NA	BDL	NA	BDL	BDL	NA	NA	NA	9.6
GP-8	07/22/11	-	BDL	BDL	BDL	BDL	BDL	45	BDL	270	BDL	BDL	-	-	-	NA	BDL	48	NA	15	BDL	NA	NA	BDL	NA	BDL	NA	BDL	BDL	NA	NA	95	16
GP-9	07/22/11	BDL	-	-	-	-	-	-	-	-	-	BDL	-	-	-	NA	BDL	36	NA	BDL	BDL	NA	NA	BDL	NA	BDL	NA	BDL	BDL	NA	NA	BDL	12
GP-10	07/28/11	BDL	-	-	-	-	-	-	-	-	-	BDL	-	-	-	NA	BDL	44	NA	BDL	BDL	NA	NA	BDL	NA	BDL	NA	BDL	BDL	NA	NA	NA	NA
GP-11	07/28/11	BDL	-	-	-	-	-	-	-	-	-	-	BDL	11	BDL	NA	BDL	88	NA	BDL	BDL	NA	NA	81	NA	BDL	NA	BDL	BDL	NA	NA	NA	NA
MW-1	07/28/11	BDL	-	-	-	-	-	-	-	-	-	BDL	-	-	-	NA	BDL	97	NA	BDL	BDL	NA	NA	6.7	NA	BDL	NA	BDL	BDL	NA	NA	NA	64
MW-1	11/06/12	BDL	-	-	-	-	-	-	-	-	-	BDL	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	07/28/11	BDL	-	-	-	-	-	-	-	-	-	-	BDL	19	2.3	NA	BDL	38	NA	BDL	BDL	NA	NA	5.0	NA	BDL	NA	BDL	BDL	NA	NA	NA	75
MW-2	11/06/12	-	BDL	BDL	BDL	BDL	BDL	1.7	BDL	BDL	BDL	BDL	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	07/28/11	BDL	-	-	-	-	-	-	-	-	-	-	BDL	14	BDL	NA	BDL	27	NA	BDL	BDL	NA	NA	7.4	NA	BDL	NA	BDL	BDL	NA	NA	NA	NA
MW-3	11/06/12	BDL	-	-	-	-	-	-	-	-	-	BDL	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	07/28/11	-	BDL	BDL	16	BDL	BDL	BDL	BDL	BDL	BDL	-	BDL	1	BDL	NA	BDL	38	NA	BDL	BDL	NA	NA	BDL	NA	BDL	NA	BDL	BDL	NA	NA	BDL	35
MW-4	11/06/12	-	BDL	BDL	13.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	07/28/11	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.1	BDL	-	BDL	26	BDL	NA	BDL	52	NA	BDL	BDL	BDL	NA	BDL	NA	BDL	NA	BDL	BDL	NA	NA	BDL	72
MW-5	11/06/12	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.1	BDL	BDL	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	07/28/11	BDL	-	-	-	-	-	-	-	-	-	-	BDL	11	BDL	NA	BDL	67	NA	BDL	BDL	NA	NA	84	NA	BDL	NA	BDL	BDL	NA	NA	BDL	85
MW-6	11/07/12	BDL	-	-	-	-	-	-	-	-	-	BDL	-	-	-	BDL	BDL	NA	BDL	BDL	BDL	NA	BDL	BDL	17.3	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA
MW-7	07/28/11	-	BDL	BDL	BDL	14	BDL	73	BDL	2,900	BDL	-	BDL	15	BDL	NA	BDL	53	NA	BDL	BDL	NA	NA	6.3	NA	BDL	NA	BDL	BDL	NA	NA	1,200	91
MW-7	11/08/12	-	BDL	BDL	3.6	60.5	BDL	92.9	BDL	2,350	2.3	BDL	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,200	NA
MW-8	11/08/12	-	BDL	BDL	BDL	BDL	BDL	BDL	1.5	154	BDL	BDL	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	11/08/12	-	BDL	BDL	1.4	16	BDL	36	BDL	1,560	2.5	BDL	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	11/13/12	-	27.9	BDL	BDL	BDL	BDL	BDL	BDL	5.5	BDL	BDL	-	-	-	BDL	BDL	NA	BDL	BDL	BDL	NA	BDL	BDL	54.1	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA
MW-11	11/09/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	-	-	BDL	BDL	NA	BDL	BDL	BDL	NA	18.1	BDL	73.0	BDL	BDL	BDL	BDL	BDL	24.6	NA	NA
MW-12	11/09/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	-	-	BDL	BDL	NA	BDL	BDL	BDL	NA	7.6	BDL	103	BDL	BDL	BDL	BDL	BDL	10.2	NA	NA
MW-13	11/09/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	-	-	BDL	BDL	NA	BDL	BDL	BDL	NA	BDL	BDL	18.1	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA
MW-14	02/18/13	BDL	-	-	-	-	-	-	-	-	-	NA	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-15	02/18/13	BDL	-	-	-	-	-	-	-	-	-	NA	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-16	02/18/13	-	BDL	BDL	BDL	BDL	1.3	BDL	6.5	BDL	10.0	NA	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-16	03/13/13	BDL	-	-	-	-	-	-	-	-	-	NA	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA
DW-1	11/13/12	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	95.8	BDL	BDL	-	-	-	BDL	BDL	NA	BDL	BDL	12.4	NA	BDL	BDL	7.1	BDL	6.5	BDL	BDL	BDL	BDL	NA	NA
DW-1 (DUP)	11/13/12	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	96.1	BDL	BDL	-	-	-	BDL	BDL	NA	BDL	BDL	22.4	NA	BDL	BDL	6.7	BDL	12.4	BDL	BDL	BDL	BDL	NA	NA
DW-2	02/20/13	-	BDL	BDL	BDL	BDL	BDL	BDL	1.9	22.2	2.4	NA	-	-	-	BDL	BDL	NA	BDL	BDL	23.6	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	24.2	NA	NA
DW-2 (DUP)	02/20/13	-	BDL	BDL	BDL	BDL	BDL	BDL	1.8	21.2	2.2	NA	-	-	-	BDL	BDL	NA	BDL	BDL	23.8	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA
DW-2	03/13/13	-	42.7	BDL	BDL	BDL	BDL	BDL	BDL	5.2	BDL	NA	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DW-2 (DUP)	03/13/13	-	41	BDL	BDL	BDL	BDL	BDL	BDL	5.1	BDL	NA	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
Only detected compounds are listed.
Groundwater criteria are NC2L Standards
BDL: Below Laboratory Detection Limit; NA: Not Analyzed; NE: Not Established
VOCs: Volatile organic compounds; SVOCs: Semi-Volatile organic compounds; TPH: Total Petroleum Hydrocarbons
mg/L = milligrams per liter
Highlighted values exceed NC2L Standards

Table 3. Summary of Tenatively Identified Compounds
ECI-Elon Facility
Elon, North Carolina

Sample ID	Sample Depth (ft)	Date Sampled	SVOCs - Method 8270C/8270D (mg/kg for soil, ug/L for water)																VOC TICs - Method 5035A/8260B (mg/kg for soil, ug/L for water) Estimated Concentrations
			1,1,2,2-tetrachloro-ethane	Unknown #1 (Retention Time = 3.649)	Unknown #2 (Retention Time = 4.939)	Unknown #3 (Retention Time = 4.975)	Unknown #4 (Retention Time = 5.324)	Unknown #5 (Retention Time = 6.293)	Unknown #6 (Retention Time = 6.554)	Unknown #7 (Retention Time = 6.585)	Unknown #8 (Retention Time = 13.126)	Unknown #9 (Retention Time = 21.573)	Unknown #10 (Retention Time = 6.411)	Unknown #11 (Retention Time = 6.408)	Unknown #12 (Retention Time = 6.551)	1-Methyl-2-pro-cyclohexane	Trichloroethylene	Tetrachloroethylene	Carbon Dioxide
MW-1	5-7'	07/19/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
MW-2	3-5'	07/19/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
MW-3	5-7'	07/19/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
MW-4	8-10'	07/19/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
MW-5	3-5'	07/19/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
MW-6	0-2'	07/19/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
MW-7	3-5'	07/19/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
MW-7	18-20'	07/19/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
MW-7 (WATER)	-	11/08/12	NA	NA	NA	6.36J	NA	15.8J	6.81J	8.34J	NA	145J	NA	NA	NA	NA	NA	11.4NJ	BDL
MW-8 (WATER)	-	11/08/12	NA	NA	NA	NA	NA	24.6J	12.1J	NA	NA	NA	8.86J	NA	NA	15.3NJ	NA	NA	BDL
MW-9 (WATER)	-	11/08/12	NA	NA	NA	NA	NA	27.8J	NA	NA	NA	NA	NA	9.32J	13.8J	NA	NA	NA	BDL
MW-10 (WATER)	-	11/13/12	11.7NJ	6.28J	38.4J	NA	35.7J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
MW-14 (WATER)	-	02/18/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
MW-15 (WATER)	-	02/18/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
MW-16 (WATER)	-	02/18/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
MW-16 (WATER)	-	03/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
DW-1 (WATER)	-	11/13/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.1NJ	NA	BDL
DW-1 (WATER) Duplicate	-	11/13/12	NA	NA	NA	NA	NA	NA	NA	NA	8.42J						15.7NJ	NA	BDL
DW-2 (WATER)	-	02/20/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
DW-2 (WATER) Duplicate	-	02/20/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
DW-2 (WATER)	-	03/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
DW-2 (WATER) Duplicate	-	03/13/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
HA-1	0-1'	07/20/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
HA-2	0-1'	07/20/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
HA-3	0-1'	07/20/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-1	5-7'	07/20/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.14J
GP-1	38-40'	07/20/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-1 (WATER)	-	07/20/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-2	5-7'	07/20/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.14J
GP-2	18-20'	07/20/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.39J
GP-2	35-36'	07/20/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.614J
GP-2 (WATER)	-	07/21/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-3	1-3'	07/20/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-3 (WATER)		07/21/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-4	1-3'	07/20/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-5	13-15'	07/20/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-6	10-12'	07/21/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-6 (WATER)		07/19/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-7	13-15'	07/21/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-7	30-32'	07/21/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-8	10-12'	07/21/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-9	1-3'	07/21/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-9 (WATER)	-	07/22/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-10	1-3'	07/22/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-11	8-10'	07/22/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-12	6"	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-12	5'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-12	10'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-12	15'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-12	20'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-12	25'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-12	30'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-12	35'	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-13	6"	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-13	5'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-13	10'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-13	15'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-13	20'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-13	25'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-13	30'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-13	35'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-14	6"	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-14	5'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-14	10'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-14	15'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-14	20'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-14	25'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-14	30'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-14	35'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-15	6"	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-15	5'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-15	10'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-15	15'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-15	20'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-15	25'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-15	30'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-15	35'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-16	6"	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-16	5'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-16	10'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-16	15'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-16	20'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-16	25'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-16	30'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-16	35'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-17	6"	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-17	5'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-17	10'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-17	15'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-17	20'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-17	25'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-17	30'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-17	35'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-18	6"	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-18	5'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-18	10'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-18	15'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-18	20'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-18	25'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-18	30'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-18	35'	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-19	6"	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-19	5'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-19	10'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-19	15'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-19	20'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-19	25'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-19	30'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-19	35'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-20	6"	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-20	5'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-20	10'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-20	15'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-20	20'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-20	25'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-20	30'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-20	35'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-21	6"	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-21	5'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-21	10'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-21	15'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-21	20'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-21	25'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-21	30'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-21	35'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-22	6"	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-22	5'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-22	10'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-22	15'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-22	20'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-22	25'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-22	30'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-22	35'	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-23	6"	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-23	5'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-23	10'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-23	15'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-23	20'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-23	25'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-23	30'	11/14/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-23	35'	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-24	6"	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-24	5'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-24	10'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-24	15'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-24	20'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-24	25'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL
GP-24	30'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL

SVOCs - Method 8270C/8270D (mg/kg for soil, ug/L for water)

Sample ID	Sample Depth (ft)	Date Sampled	1,1,2,2-tetrachloro-ethane	Unknown #1 (Retention Time = 3.649)	Unknown #2 (Retention Time = 4.939)	Unknown #3 (Retention Time = 4.975)	Unknown #4 (Retention Time = 5.324)	Unknown #5 (Retention Time = 6.293)	Unknown #6 (Retention Time = 6.554)	Unknown #7 (Retention Time = 6.585)	Unknown #8 (Retention Time = 13.126)	Unknown #9 (Retention Time = 21.573)	Unknown #10 (Retention Time = 6.411)	Unknown #11 (Retention Time = 6.408)	Unknown #12 (Retention Time = 6.551)	1-Methyl-2-pro-cyclohexane	Trichloroethylene	Tetrachloroethylene
GP-24	35'	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-25	6"	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-25	5'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-25	10'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-25	15'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-25	20'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-25	25'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-25	30'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-25	35'	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	6"	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	5'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	10'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	15'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	20'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	25'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	30'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	35'	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27	6"	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27	5'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27	10'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27	15'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27	20'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27	25'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27	30'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27	35'	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28	6"	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28	5'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28	10'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28	15'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28	20'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28	25'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28	30'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28	35'	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29	6"	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29	5'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29	10'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29	15'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29	20'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29	25'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29	30'	11/08/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29	35'	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-30	6"	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-30	5'	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-30	10'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-30	15'	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-30	20'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-30	25'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-30	30'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-30	35'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-31	6"	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-31	5'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-31	10'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-31	15'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-31	20'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-31	25'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-31	30'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-31	35'	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-32	6"	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-32	5'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-32	10'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-32	15'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-32	20'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-32	25'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-32	30'	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-32	35'	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-33	6"	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-33	5'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-33	10'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-33	15'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-33	20'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-33	25'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-33	30'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-33	35'	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-34	6"	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-34	5'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-34	10'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-34	15'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-34	20'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-34	25'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-34	30'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-34	35'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-35	6"	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-35	5'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-35	10'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-35	15'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-35	20'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-35	25'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-35	30'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-35	35'	02/12/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

VOC TICs - Method 5035A/8260B (mg/kg for soil, ug/L for water)
Estimated Concentrations

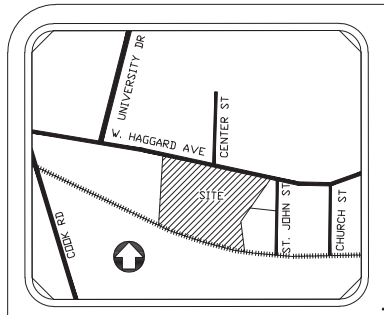
Sample ID	Sample Depth (ft)	Carbon Dioxide	1,4-Methanoazulene, decahydro-4,8,8-trimethyl-9-methylene-, [1S-(1a`,3aa',4a`,8aa')]-	Thujopsene	1,4-Methano-1H-indene, octahydro-4-methyl-8-methylene-7-(1-methylethyl)-, [1S-(1α,3aβ,4α,7α,7aβ)]-	1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-, [3R-(3α,3aβ,7β,8aα)]-	Cyclotrisiloxane, hexamethyl	Cyclotetrasiloxane, octamethyl	Tetrasiloxane, decamethyl-	Unknown Organic Acid	Unknown Alkane #1 (Retention Time = 1.089)	Unknown Alkane #2 (Retention Time = 4.522)	Unknown Alkane #3 (Retention Time = 4.528)	Unknown Alkane #4 (Retention Time = 0.917)	Unknown Alkane #5 (Retention Time = 1.874)	Hexanal	Heptanal	Octanal	Nonanal
GP-24	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-25	6"	BDL	BDL	BDL	BDL	BDL	25.4NJ	41.7NJ	BDL	9.32J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-25	5'	BDL	BDL	BDL	BDL	BDL	15.2NJ	23.5NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-25	10'	BDL	BDL	BDL	BDL	BDL	13.0NJ	17.7NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-25	15'	BDL	BDL	BDL	BDL	BDL	16.2NJ	22.2NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.24NJ	9.85NJ
GP-25	20'	BDL	BDL	BDL	BDL	BDL	5.85NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.80NJ	8.71NJ
GP-25	25'	BDL	BDL	BDL	BDL	BDL	8.40NJ	9.55NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-25	30'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-25	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-26	6"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-26	5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-26	10'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-26	15'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-26	20'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-26	25'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-26	30'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-26	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-27	6"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-27	5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-27	10'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-27	15'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-27	20'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-27	25'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-27	30'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-27	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-28	6"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-28	5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-28	10'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-28	15'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-28	20'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-28	25'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-28	30'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-28	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-29	6"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-29	5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-29	10'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-29	15'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-29	20'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-29	25'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-29	30'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-29	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-30	6"	BDL	BDL	BDL	BDL	BDL	17.5NJ	23.3NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-30	5'	BDL	BDL	BDL	BDL	BDL	19.3NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-30	10'	BDL	BDL	BDL	BDL	BDL	12.8NJ	15.7NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-30	15'	BDL	BDL	BDL	BDL	BDL	23.2NJ	29.8NJ	BDL	5.50J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-30	20'	BDL	BDL	BDL	BDL	BDL	18.4NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-30	25'	BDL	BDL	BDL	BDL	BDL	16.3NJ	24.1NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9.81NJ	10.8NJ
GP-30	30'	BDL	BDL	BDL	BDL	BDL	17.5NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11.8NJ	10.1NJ
GP-30	35'	BDL	BDL	BDL	BDL	BDL	15.9NJ	28.5NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10.2NJ
GP-31	6"	BDL	BDL	BDL	BDL	BDL	13.9NJ	BDL	BDL	BDL	6.56J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-31	5'	BDL	BDL	BDL	BDL	BDL	8.13NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-31	10'	BDL	BDL	BDL	BDL	BDL	10.9NJ	BDL	BDL	BDL	BDL	6.28J	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-31	15'	BDL	BDL	BDL	BDL	BDL	7.83NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-31	20'	BDL	BDL	BDL	BDL	BDL	12.8NJ	21.8NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-31	25'	BDL	BDL	BDL	BDL	BDL	16.6NJ	23.4NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.08NJ
GP-31	30'	BDL	BDL	BDL	BDL	BDL	14.2NJ	23.2NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-31	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-32	6"	BDL	BDL	BDL	BDL	BDL	14.4NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-32	5'	BDL	BDL	BDL	BDL	BDL	13.0NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-32	10'	BDL	BDL	BDL	BDL	BDL	11.7NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-32	15'	BDL	BDL	BDL	BDL	BDL	17.0NJ	BDL	BDL	BDL	BDL	BDL	9.43J	BDL	BDL	BDL	BDL	BDL	BDL
GP-32	20'	BDL	BDL	BDL	BDL	BDL	13.2NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	14.8NJ	13.2NJ
GP-32	25'	BDL	BDL	BDL	BDL	BDL	10.6NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.33NJ	BDL	27.5NJ	19.1NJ
GP-32	30'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-32	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-33	6"	BDL	BDL	BDL	BDL	BDL	BDL	13.1NJ	BDL	BDL	BDL	BDL	BDL	7.35J	BDL	BDL	BDL	BDL	BDL
GP-33	5'	BDL	BDL	BDL	BDL	BDL	10.7NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-33	10'	BDL	BDL	BDL	BDL	BDL	19.6NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-33	15'	BDL	BDL	BDL	BDL	BDL	14.8NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.51NJ	BDL	26.6NJ	35.7NJ
GP-33	20'	BDL	BDL	BDL	BDL	BDL	8.85NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.13NJ
GP-33	25'	BDL	BDL	BDL	BDL	BDL	7.97NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-33	30'	BDL	BDL	BDL	BDL	BDL	21.3NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	21.5NJ	19.0NJ
GP-33	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA
GP-34	6"	BDL	BDL	BDL	BDL	BDL	15.8NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-34	5'	BDL	BDL	BDL	BDL	BDL	7.73NJ	BDL	BDL	7.56J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-34	10'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8.80NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-34	15'	BDL	BDL	BDL	BDL	BDL	12.0NJ	12.0NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.38NJ	6.18NJ
GP-34	20'	BDL	BDL	BDL	BDL	BDL	10.0NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.34NJ	BDL	22.6NJ	20.4NJ
GP-34	25'	BDL	BDL	BDL	BDL	BDL	14.6NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8.75NJ	9.05NJ
GP-34	30'	BDL	BDL	BDL	BDL	BDL	10.6NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-34	35'	BDL	BDL	BDL	BDL	BDL	17.2NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10.9NJ	16.9NJ
GP-35	6"	BDL	BDL	BDL	BDL	BDL	8.30NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-35	5'	BDL	BDL	BDL	BDL	BDL	14.6NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-35	10'	BDL	BDL	BDL	BDL	BDL	11.2NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-35	15'	BDL	BDL	BDL	BDL	BDL	14.0NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-35	20'	BDL	BDL	BDL	BDL	BDL	10.1NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-35	25'	BDL	BDL	BDL	BDL	BDL	12.7NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-35	30'	BDL	BDL	BDL	BDL	BDL	9.27NJ	12.1NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9.71NJ	7.73NJ
GP-35	35'	BDL	BDL	BDL	BDL	BDL	12.7NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.94NJ	10.5NJ

Sample ID	Sample Depth (ft)	Decanal	1,2-dichloro-1,1,2-ethane	Cyclobutane, methyl-	Pentane, 2,3,3-trimethyl-	5-Bromo-2-chlorobenzoic acid	4-(Dimethylamino)-3,5-dinitro-N-(4-phenoxy-phenyl)benz-amide	Cyclopentane	Benzoic acid,2-[(trimethylsilyl)oxy]-, trimethylsilyl ester	7-Methyl-7H-dibenzo[b,g]carbazole	N-[(Pentafluorophenyl)-methylene]-β,4-bis[(trimethylsilyl)oxy]benzeneethanamine	1,1-Difluoroethane	Octane	Unknown #1 (Retention Time = 9.280)	Unknown #2 (Retention Time = 7.975)	Unknown #3 (Retention Time = 1.092)	Unknown #4 (Retention Time = 0.785)	Unknown #5 (Retention Time = 0.793)	Unknown #5 (Retention Time = 1.068)
GP-24	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-25	6"	BDL	BDL	BDL	BDL	BDL	18.1NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-25	5'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-25	10'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-25	15'	BDL	BDL	BDL	BDL	BDL	BDL	10.2NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-25	20'	BDL	BDL	BDL	BDL	BDL	17.4NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-25	25'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-25	30'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-25	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	6"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	10'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	15'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	20'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	25'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	30'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27	6"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27	5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27	10'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27	15'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27	20'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27	25'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27	30'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28	6"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28	5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28	10'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28	15'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28	20'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28	25'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28	30'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29	6"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29	5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29	10'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29	15'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29	20'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29	25'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29	30'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-30	6"	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-30	5'	BDL	BDL	32.0NJ	11.6NJ	6.59NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-30	10'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-30	15'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-30	20'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-30	25'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-30	30'	BDL	8.14NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-30	35'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-31	6"	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-31	5'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-31	10'	BDL	BDL	36.4NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.63J	BDL	BDL	BDL
GP-31	15'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-31	20'	BDL	BDL	6.58NJ	8.37NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-31	25'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-31	30'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-31	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-32	6"	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-32	5'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-32	10'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-32	15'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	22.6NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-32	20'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-32	25'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-32	30'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-32	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-33	6"	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	136J	BDL	BDL
GP-33	5'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-33	10'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-33	15'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.62J	BDL	BDL	BDL	BDL	BDL
GP-33	20'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-33	25'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-33	30'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-33	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-34	6"	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-34	5'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-34	10'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	14.5J
GP-34	15'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-34	20'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-34	25'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-34	30'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-34	35'	5.09NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-35	6"	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	626J	BDL
GP-35	5'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-35	10'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-35	15'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-35	20'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-35	25'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-35	30'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-35	35'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

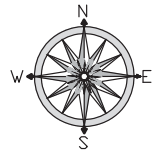
Sample ID	Sample Depth (ft)	alpha.-Methylstyrene	3-[(E)-2-({4-[(4-chlorophenyl)methoxy]-3-methoxyphenyl}methylidene)hydrazin-1-yl]-5-methyl-1,2,4-triazol-4-amine	Acetaldehyde	Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, acetate, (1S-endo)-	1-Pentene	Camphor	2,2,3,3,4,4,4-Heptafluoro-N-[2-(trimethylsilyloxy)-2-[4-(trimethylsilyloxy)phenyl]ethyl]butanamide	4-Hydroxymandelic acid, ethyl ester, di-TMS	3-Hydroxymandelic acid, ethyl ester, di-TMS	Unknown Amine (Retention Tiime = 8.570)	1-Hexanol, 2-ethyl-	Methane, diiodo-	Unknown Amine	1-Iodo-heptane	1-Iodo-octane	1,2,4,5-Tetrazine, 3-(4-chlorophenyl)-6-(1-pyrrolidinyl)-
GP-24	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-25	6"	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-25	5'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-25	10'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-25	15'	BDL	BDL	BDL	BDL	BDL	7.08NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-25	20'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-25	25'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9.20NJ	7.55NJ	BDL
GP-25	30'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.76NJ	5.21NJ	BDL
GP-25	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	6"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	10'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	15'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	20'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	25'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	30'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27	6"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27	5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27	10'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27	15'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27	20'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27	25'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27	30'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28	6"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28	5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28	10'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28	15'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28	20'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28	25'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28	30'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29	6"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29	5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29	10'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29	15'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29	20'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29	25'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29	30'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-30	6"	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-30	5'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-30	10'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-30	15'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-30	20'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-30	25'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-30	30'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-30	35'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-31	6"	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-31	5'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-31	10'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-31	15'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-31	20'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-31	25'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-31	30'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-31	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-32	6"	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-32	5'	BDL	BDL	BDL	BDL	29.2NJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-32	10'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-32	15'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-32	20'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.84NJ	BDL
GP-32	25'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-32	30'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-32	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-33	6"	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-33	5'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-33	10'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-33	15'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-33	20'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-33	25'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-33	30'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-33	35'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-34	6"	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-34	5'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-34	10'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-34	15'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-34	20'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-34	25'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-34	30'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-34	35'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-35	6"	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-35	5'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-35	10'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-35	15'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-35	20'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-35	25'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-35	30'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GP-35	35'	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

NOTES:
Only detected compounds are listed.
J = Positively identified compound, estimated value
NJ = Tentatively identified compound, estimated value
BDL: Below Laboratory Detection Limit; NA: Not Analyzed
mg/kg is approximately equivalent to parts per millon (ppm)

Appendix A
Property Survey



VICINITY MAP
(NOT TO SCALE)



REF: DB 2666-376

ITEMS CORRESPONDING TO SCHEDULE B

FIDELITY NATIONAL TITLE INSURANCE COMPANY
TITLE COMMITMENT FILE/ORDER NO: 10G84380-SO EFFECTIVE DATE: AUGUST 11, 2010
NOTES CORRESPONDING TO SCHEDULE B

3. Easement (s) and/or right (s) of way in favor of Department of Transportation recorded in Book 1119, Page 755. Do not affect subject property
4. Title to that portion of the Land within the bounds of Rego Drive (SR 1417) and NC Highway 100. Right-of-Way As-shown
5. Title to that portion of the Land within the bounds of the railroad right of way. Right-of-Way As-shown
6. Rights of others in and to the continued uninterrupted flow of branch along west property line. No branch exist along west property line.

ZONING INFORMATION

STATUS	ZONED - INDUSTRIAL		STATUS
ITEM	REQUIRED	OBSERVED	CONTACT INFO:
PERMITTED USE	INDUSTRIAL	INDUSTRIAL	*ELON ZONING DEPT.*
MIN. LOT AREA	NA	581,535 SQ.FT.	*104 S. WILLIAMSON ST.*
MIN. DEPTH	NA	608'	*ELON, NC 27244*
MIN. LOT WIDTH	300'	1024'	*336-584-3601*
MAX. BLDG COVERAGE	40%	102,370 SQ.FT. OR 17.6%	
MIN. SETBACKS FRONT	50'	SEE SURVEY	NOTES:
MIN. SETBACKS SIDE	30'	SEE SURVEY	*PARKING REQUIREMENTS*
MIN. SETBACKS REAR	30'	SEE SURVEY	*ARE 0.25 SPACES PER 1000*
MAX. BUILDING HEIGHT	3 STORIES	22.8	*SQ.FT. NON OFFICE SPACE*
PARKING REGULAR	SEE NOTE	226	*AND 1 SPACE PER 300 SQ.FT.*
PARKING HANDICAP		2	*OF OFFICE SPACE*
PARKING TOTAL		228	

STATEMENT OF ENCROACHMENTS

A NO ENCROACHMENTS NOTED AT TIME OF SURVEY

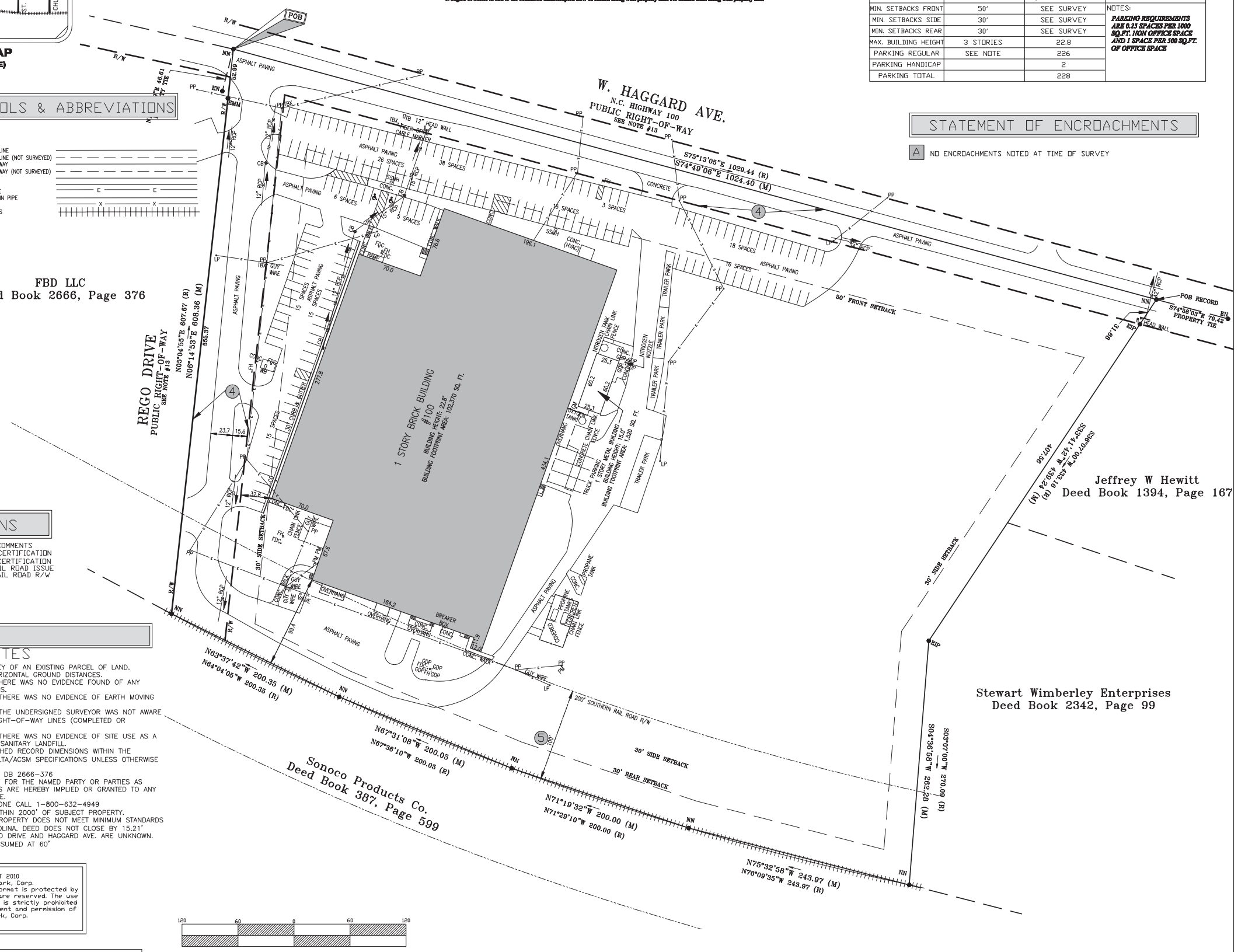
LEGEND OF SYMBOLS & ABBREVIATIONS

TEXT:

C&G – CURB & GUTTER
CB – CATCH BASIN
CO – CLEAN OUT
DB – DEED BOOK
EIP – EXISTING IRON PIPE
EOP – EDGE OF PAVEMENT
EMM – EXISTING METAL MONUMENT
FC – FIRE CONNECTION
FH – FIRE HYDRANT
FV – FIRE VALVE
GDP – GUARD POST
GM – GAS METER
HVAC – HEATING/COOLING UNIT
LP – LIGHT POLE
(M) – MEASURED
MB – MAP BOOK
NCGS – NORTH CAROLINA GEODETIC SURVEY
NN – NEW NAIL
PBX – POWER BOX
PM – POWER METER
POB – POINT OF BEGINNING
PP – POWER POLE
PG – PAGE
(R) – RECORDED
R/W – RIGHT-OF-WAY
RCP – REINFORCED CONCRETE PIPE
SSMH – SANITARY SEWER MANHOLE
SQ.FT. – SQUARE FEET
TBX – TELEPHONE BOX

LINE:

PROPERTY LINE
PROPERTY LINE (NOT SURVEYED)
RIGHT-OF-WAY
RIGHT-OF-WAY (NOT SURVEYED)
EASEMENT
SETBACK
POWER LINE
STORM DRAIN PIPE
FENCE
R/R TRACKS



FBD LLC
Deed Book 2666, Page 376

REVISIONS

08-23-10 PER B&C COMMENTS
08-24-10 TO SHOW NEW CERTIFICATION
08-24-10 ADD NAME TO CERTIFICATION
09-03-10 TO ADDRESS RAIL ROAD ISSUE
09-07-10 TO CORRECT RAIL ROAD R/W

NOTES

1. THIS MAP REPRESENTS A SURVEY OF AN EXISTING PARCEL OF LAND.
2. ALL DISTANCES SHOWN ARE HORIZONTAL GROUND DISTANCES.
3. AT THE TIME OF THE SURVEY THERE WAS NO EVIDENCE FOUND OF ANY CEMETERIES OR BURIAL GROUNDS.
4. AT THE TIME OF THIS SURVEY, THERE WAS NO EVIDENCE OF EARTH MOVING WORK AND OR CONSTRUCTION.
5. AT THE TIME OF THIS SURVEY, THE UNDERSIGNED SURVEYOR WAS NOT AWARE OF ANY CHANGES IN STREET RIGHT-OF-WAY LINES (COMPLETED OR PROPOSED).
6. AT THE TIME OF THIS SURVEY, THERE WAS NO EVIDENCE OF SITE USE AS A SOLID WASTE DUMP, SUMP, OR SANITARY LANDFILL.
7. ALL FIELD MEASUREMENTS MATCHED RECORD DIMENSIONS WITHIN THE PRECISION REQUIREMENTS OF ALTA/ACSM SPECIFICATIONS UNLESS OTHERWISE SHOWN.
8. BASIS OF BEARING REFERENCED DB 2666-376
9. THIS SURVEY IS INTENDED ONLY FOR THE NAMED PARTY OR PARTIES AS SHOWN HEREON, NO WARRANTIES ARE HEREBY IMPLIED OR GRANTED TO ANY OTHER PARTY FOR ANY PURPOSE.
10. UTILITY LOCATING SERVICE: NC ONE CALL 1-800-632-4949
11. NO NCGS MONUMENT FOUND WITHIN 2000' OF SUBJECT PROPERTY.
12. RECORD LEGALS OF SUBJECT PROPERTY DOES NOT MEET MINIMUM STANDARDS OF PRACTICES FOR NORTH CAROLINA. DEED DOES NOT CLOSE BY 15.21'
13. RIGHT-OF-WAY WIDTHS OF REGO DRIVE AND HAGGARD AVE. ARE UNKNOWN. RIGHT-OF-WAYS SHOWN ARE ASSUMED AT 60'

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FLOOD NOTE: By graphic plotting only, this property is in Zone(s) X of the Flood Insurance Rate Map, Community Panel No. 3710884500K which bears an effective date of JUNE 18, 2007 and is not in a Special Flood Hazard Area. As shown on the FEMA website (http://msc.fema.gov) by FIRMette created on AUGUST 19, 2010 we have learned this community does currently participate in the program. No field surveying was performed to determine this zone and an elevation certificate may be needed to verify this determination or apply for a variance from the Federal Emergency Management Agency.

120 60 0 60 120

SCALE IN FEET
SCALE 1"=60 '

PROPERTY IS LOCATED IN THE
BOONE STATION TOWNSHIP
ALAMANCE COUNTY, NORTH CAROLINA
TAX PARCEL: 109268
TOTAL AREA: 581,535 SQ.FT. OR 13.350 ACRES

THIS IS TO CERTIFY THAT ON THE 19TH DAY OF AUGUST 2010 AN ACTUAL SURVEY WAS MADE UNDER MY SUPERVISION OF THE PROPERTY SHOWN ON THIS PLAT, AND THAT THE BOUNDARY LINES AND IMPROVEMENTS IF ANY, ARE AS SHOWN HEREON. THIS PLAT MEETS THE MINIMUM STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA, BOARD RULE .1600 (21 NCAC 56) AND THE RATIO OF PRECISION DOES NOT EXCEED AN ERROR OF CLOSURE OF ONE (1) FOOT PER 10,000 FEET OF PERIMETER SURVEYED NOR 20 SECONDS TIMES THE SQUARE ROOT OF THE NUMBER OF ANGLES TURNED.

SIGNED: James H. Mauney Jr.
JAMES H. MAUNEY, JR. – PLS NO: L-3885

TITLE LEGAL DESCRIPTION

A tract of land in Boone Station Township, Alamance County, North Carolina, adjoining North Carolina Highway No. 100, Laura W. Hewitt, M.V. Huffines, Southern Railroad, and Arlie L Huffines, and being more particularly described as follows:

BEGINNING at a point in the center of North Carolina Highway No. 100, corner with Laura W. Hewitt (the beginning point being located 542 ft. west of the centerline of Church Street where the Street intersects with the Highway); thence with Hewitt and W. V. Huffines, S. 36° 7' W. 433.16 feet to an existing iron pin in a branch (existing iron pin set in this line 33.79 ft. from the center of the highway); thence with Huffines, S. 3° 7' W. 270.09 ft. to a point in the center of the Southern Railroad right of way (iron pin set in this line 45.3 ft. from the point in the center of the right of way); thence with the center of the Southern Railroad right of way the following courses and distances: N. 76° 9' 35" W. 243.97 ft.; N. 71° 29' 10" W. 200 ft. to an existing pin; N. 67° 36' 10" W. 200.05 ft. to an existing pin; and N. 64° 4' 5" W. 200.35 ft. to a point, corner with Arlie L. Huffines; thence with Huffines, N. 5° 4' 55" E. 607.67 ft. to a point in the center of North Carolina Highway No. 100 (iron pins set in this line 29.96 ft., 299.86 ft., and 577.29 ft. from the center of the Railroad right of way); thence with the centerline of the Highway, S. 75° 13' 5" E. 1029.46 feet to the point of BEGINNING; being 13.31 acres, more or less, as the same is shown on a survey of the property of Rego Group prepared by David Thompson, Surveyor, dated July 17, 1980.

SAVE AND EXCEPT the property conveyed by the Rego Group, Inc. to the Town of Elon College, containing .0696 acres, more or less, and recorded in Deed Book 479 at page 698 of the Alamance County Registry.

AS-SURVEYED LEGAL DESCRIPTION

13.350 ACRES
100 REGO DRIVE
ELON, NC

That certain tract or parcel of land situated, lying and being in Boone Station Township, Alamance County, North Carolina and being more particularly described as follows:

BEGINNING at a new nail in the center line of West Haggard Avenue (North Carolina Highway 100 - public right-of-way), said nail being the northeasterly corner of the FBD LLC property as described in Deed Book 2666, Page 376 of the Alamance County Public Registry, and runs thence from said BEGINNING point with the center line of West Haggard Avenue South 74°49'06" East, a distance of 1,024.40 feet to a new nail at the northwest corner of the Jeffrey W. Hewitt property as described in Deed Book 1394, Page 167 of said Registry; thence with the westerly line of the Hewitt tract, and continuing along the westerly line of the Stewart Wimberley Enterprises property as described in Deed Book 2342, Page 99 of said Registry, the following two (2) courses and distances: (1) South 33°41'42" West, passing an existing iron pipe at 31.88 feet, for a total distance of 439.24 feet to a existing iron pipe; (2) South 04°36'56" West, a distance of 262.28 feet to a new nail set in the center of the Southern Railroad right-of-way, said nail being on the northerly line of the Sonoco Products Co. property as described in Deed Book 387, Page 599 of said Registry; thence with the line of the Sonoco Products Co. property and following the center line of the Southern Railroad right-of-way, the following four (4) courses and distances: (1) North 75°32'58" West, a distance of 243.97 feet to a new nail; (2) North 71°19'32" West, a distance of 200.00 feet to a new nail; (3) North 67°31'08" West, a distance of 200.05 feet to a new nail; (4) North 63°37'42" West, a distance of 200.35 feet to a new nail at the southeasterly corner of the FBD LLC property as described in Deed Book 2666, Page 376 of said Registry, said nail also being on the westerly margin of Rego Drive (public right-of-way); thence with the easterly line of the FBD LLC property, along the westerly margin of Rego Drive, North 06°14'53" East, a distance of 608.38 feet to the POINT OF BEGINNING; Containing 581,535 square feet or 13.350 acres, more or less, as shown on a survey by James Mauney & Associates, P.A. dated August 19, 2010, bearing File No. F642.

Being the same property as described in Fidelity National Title Insurance Company Title Commitment No. 10G84380-SO, with an effective date August 11, 2010.

ALTA/ACSM LAND TITLE SURVEY

Sentinel Project
B&C Project No. 201001166, 003
Elon
13.31 acres, Boone Station, NC

Surveyor's Certification

To: General Electric Capital Corporation, as agent, Fidelity National Title Insurance Company and Bock & Clark Corporation.

The undersigned certifies that to the best of his professional knowledge, information and belief, this map or plat and the Survey on which it is based were made on the date shown below of the premises specifically described in Commitment No. 10G84380-SO, dated August 11, 2010 and were made: (a) in accordance with Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys, jointly established and adopted by ALTA and NSPS in 2005; (b) in accordance with the Survey Requirements for the Sentinel Surveys dated 7/30/2010, and includes Items 1, 2, 3, 4, 6, 7a, 7b1, 7c, 8, 9, 10, 11a, 13, 14, 16, 17 and 18 of Table A specifically defined therein, and (c) Pursuant to the Accuracy Standards as adopted by ALTA and NSPS and in effect on the date of this certification, undersigned further certifies that in my professional opinion, as a land surveyor registered in the State of North Carolina, the Relative Positional Accuracy of this survey does not exceed that which is specified therein. (d) this plat and the property description set forth hereon was prepared by me and the survey of the Property upon which this plat is based was actually made upon the ground; (e) the Property is contiguous to, and has access to and from Rego Drive and W. Haggard Ave., a public roadway; (f) there are no easements, encroachments or encumbrances (including utility lines) affecting the Property other than as shown and depicted hereon; (g) all recorded easements and other exceptions, as noted in Fidelity National Title Insurance Company Commitment No. 10G84380-SO, dated August 11, 2010 have been correctly plotted hereon; (h) the description of the Property shown hereon conforms to the description shown in the Title Commitment, and such description closes by engineering calculation; (i) all zoning, use and density classifications are shown thereon; (j) the Property constitutes one contiguous parcel without gaps or gores; and (k) the Property is not located in a 100-Year Flood Plain or in an identified "flood prone area", as defined by the U.S. Department of Housing and Urban Development, pursuant to the Flood Disaster Protection Act of 1973, as amended, as reflected by Flood Insurance Rate Map Panel # 3710884500K, dated June 18, 2007 which such map/panel covers the area in which the Property is situated."

James H. Mauney Jr.
James H. Mauney, Jr.
Registration No. L-3885
In the State of North Carolina
Date of Survey: August 19, 2010
Date of Last Revision: September 7, 2010
Network Project No. 201001166-003

Survey Performed By:
James Mauney & Associates, P.A.
6405 Wilkinson Blvd., Suite 11
Belmont, NC 28012
Phone: 704-829-9623
Fax: 704-829-9625
Email: jmauney@jameemauney.com
License No. C-2373

NORTH CAROLINA PROFESSIONAL SEAL L-3885 LAND SURVEYOR JAMES H. MAUNEY, JR.

Page 1 of 1

Job No: 4597, File No: F642

Bock & Clark's National Surveyors Network
National Coordinators of ALTA/ACSM Land Title Surveys
537 North Cleveland-Massillon Road, Akron, Ohio 44333
Phone: (800) SURVEYS (787-8397), Fax: (330) 666-3608 www.bockandclark.com

BOCK & CLARK
Commercial Real Estate
Due Diligence
EST. 1973

Appendix B
Property Deed

ALAMANCE COUNTY 062131

STATE OF NORTH CAROLINA FEB 10 '89 P.B. 10705 Real Estate Excise Tax 900.00

ALAMANCE COUNTY 062132

STATE OF NORTH CAROLINA FEB 10 '89 P.B. 10705 Real Estate Excise Tax 702.00

Excise Tax 1602.00

BOOK 561 PAGE 548

FILED
BOOK 561 PAGE 548
FEB 10 2 07 PM '89
MARIAN F. [illegible]
REGISTER OF DEEDS
ALAMANCE COUNTY, N.C.

Recording Time, Book and Page

Tax Lot No. ..... Parcel Identifier No. .....

Verified by ..... County on the ..... day of ....., 19

by .....

Mail after recording to .....

This instrument was prepared by Leslie E. Browder, Womble Carlyle Sandridge & Rice, Post Office Drawer 84, Winston-Salem, NC 27102

Brief description for the Index

NORTH CAROLINA GENERAL WARRANTY DEED

THIS DEED made this 25th day of January, 19 89, by and between

GRANTOR	GRANTEE
RegO Company, a Delaware Corporation P.O. Box 247 Hwy. 100 at RegO Drive Elon College, NC 27244	Engineered Controls International, Inc., a Delaware Corporation 225 West Washington Street Chicago, Illinois 60606

Enter in appropriate block for each party: name, address, and, if appropriate, character of entity, e.g. corporation or partnership.

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that certain lot or parcel of land situated in the City of ....., Boone Station Township, Alamance County, North Carolina and more particularly described as follows:

SEE EXHIBIT "A" ATTACHED HERETO AND INCORPORATED HEREIN BY REFERENCE.

N. C. Bar Assoc. Form No. 3 © 1976, Revised © 1977 — James Williams & Co., Inc., Box 127, Yadkinville, N. C. 27055
Printed by Agreement with the N. C. Bar Assoc. — 1981

EXHIBIT "A"
DESCRIPTION

A tract of land in Boone Station Township, Alamance County, North Carolina, adjoining North Carolina Highway No. 100, Laura W. Hewitt, W. V. Huffines, Southern Railroad and Arlie L. Huffines, and being more particularly described as follows:

BEGINNING at a point in the center of North Carolina Highway No. 100, corner with Laura W. Hewitt (the beginning point being located 542 ft. west of the centerline of Church Street where the Street intersects with the Highway); thence with Hewitt and W. V. Huffines, S. 34° 7' W. 433.16 ft. to an existing iron pin in a branch (existing iron pin set in this line 31.79 ft. from the center of the highway); thence with Huffines, S. 3° 7' W. 270.09 ft. to a point in the center of the Southern Railroad right of way (iron pin set in this line 46.3 ft. from the point in the center of the right of way); thence with the center of the Southern Railroad right of way the following courses and distances: N. 76° 9' 35" W. 243.97 ft.; N. 71° 29' 10" W. 200 ft. to an existing pin; N. 67° 36' 10" W. 200.05 ft. to an existing pin; and N. 64° 4' 5" W. 200.25 ft. to a point, corner with Arlie L. Huffines; thence with Huffines, N. 5° 4' 55" E. 607.67 ft. to a point in the center of North Carolina Highway No. 100 (iron pins set in this line 29.96 ft., 299.86 ft. and 577.29 ft. from the center of the Railroad right of way); thence with the centerline of the Highway, S. 75° 13' 5" E. 1029.46 feet to the point of BEGINNING, being 13.31 acres, more or less, as the same is shown on a survey of the property of Rego Group prepared by David Thompson, Surveyor, dated July 17, 1980.

SAVE AND EXCEPT the property conveyed by The Rego Group, Inc. to The Town of Elon College, containing .0696 acres, more or less, and recorded in Deed Book 478 at page 698 of the Alamance County Registry.

BOOK 561 PAGE 550

The property hereinabove described was acquired by Grantor by instrument recorded in .....

.....

A map showing the above described property is recorded in Plat Book ..... page .....

TO HAVE AND TO HOLD the aforesaid lot or parcel of land and all privileges and appurtenances thereto belonging to the Grantee in fee simple.

And the Grantor covenants with the Grantee, that Grantor is seized of the premises in fee simple, has the right to convey the same in fee simple, that title is marketable and free and clear of all encumbrances, and that Grantor will warrant and defend the title against the lawful claims of all persons whomsoever except for the exceptions hereinafter stated.
Title to the property hereinabove described is subject to the following exceptions:

Subject to easements, rights of way and restrictive covenants of record, if any, and 1989 ad valorem taxes.

IN WITNESS WHEREOF, the Grantor has hereunto set his hand and seal, or if corporate, has caused this instrument to be signed in its corporate name by its duly authorized officers and its seal to be hereunto affixed by authority of its Board of Directors, the day and year first above written.

RegO Company
(Corporate Name)

By: R.W. Webb
VICE President

ATTEST: R.W. Webb
Secretary (Corporate Seal)

SEAL-STAMP

USE BLACK INK ONLY

.....(SEAL)

.....(SEAL)

.....(SEAL)

.....(SEAL)

Use Black Ink

NORTH CAROLINA, ... County.

I, a Notary Public of the County and State aforesaid, certify that .....

..... Grantor,

personally appeared before me this day and acknowledged the execution of the foregoing instrument. Witness my hand and official stamp or seal, this ..... day of ....., 19.....

My commission expires: ..... Notary Public

SEAL-STAMP

"OFFICIAL SEAL"
CAROL D'ASCENZO
Notary Public, State of Illinois
My Commission Expires Dec. 1, 1992

Use Black Ink

State of Illinois
~~XXXXXXXXXXXX~~ Cook County.

I, a Notary Public of the County and State aforesaid, certify that R.W. WEBB,

personally came before me this day and acknowledged that he is Secretary of

RegO Company a ~~XXXXXXXXX~~ Delaware corporation, and that by authority duly

given and as the act of the corporation, the foregoing instrument was signed in its name by its VICE

President, sealed with its corporate seal and attested by him as its Secretary.

Witness my hand and official stamp or seal, this 30th day of January, 1989.

My commission expires: 12-1-92 Carol D'Ascenzo Notary Public

The foregoing Certificate(s) of Carol D'Ascenzo
(Pg. Cook Co., Ill.)

is/are certified to be correct. This instrument and this certificate are duly registered at the date and time and in the Book and Page shown on the first page hereof.

MARIAN H. FITTMAN REGISTER OF DEEDS FOR Alamance COUNTY

By Sadie P. Tugwell ~~Deputy~~/Assistant - Register of Deeds

N. C. Bar Assoc. Form No. 3 © 1976, Revised © 1977 — James Williams & Co., Inc., Box 127, Yadkinville, N. C. 27055
Printed by Agreement with the N. C. Bar Assoc. - 1981

10 00

Doc ID: 011694030022 Type: CRP
Recorded: 01/31/2014 at 02:47:27 PM
Fee Amt: $84.00 Page 1 of 22
Alamance, NC
HUGH WEBSTER REGISTER OF DEEDS
BK 3301 PG 137-158

DRAFTED BY (IN CONSULTATION WITH NORTH CAROLINA COUNSEL), RECORDING AND REGISTRATION REQUESTED BY, AND AFTER RECORDING AND REGISTRATION RETURN TO:

KATTEN MUCHIN ROSENMAN LLP
525 West Monroe Street, Suite 1800
Chicago, Illinois 60661-3693
Attn: Allison Gott, Esq.

WYATT, EARLY, HARRIS & WHEELER
PO DRAWER 2086
HIGH POINT, NC 27261-2086

SPACE ABOVE THIS LINE FOR RECORDER'S USE

DEED OF TRUST, ASSIGNMENT OF LEASES AND RENTS, SECURITY AGREEMENT AND FIXTURE FILING (EQUITY LINE SECURITY INSTRUMENT)

COLLATERAL IS OR INCLUDES FIXTURES

This DEED OF TRUST, ASSIGNMENT OF LEASES AND RENTS, SECURITY AGREEMENT AND FIXTURE FILING (this "**Deed of Trust**") is made as of this [31] day of January, 2014, by ENGINEERED CONTROLS INTERNATIONAL, LLC, a Delaware limited liability company ("**Grantor**"), whose address is 100 Rego Drive, Elon, North Carolina 27244, to FIDELITY NATIONAL TITLE COMPANY, LLC, as trustee, with an address of 421 Fayetteville Street, Suite 215, Raleigh, North Carolina 27601 ("**Trustee**") for the benefit of GENERAL ELECTRIC CAPITAL CORPORATION, a Delaware corporation, whose address is 500 West Monroe Street, Chicago, Illinois 60661, in its capacity as administrative agent (in such capacity, "**Beneficiary**") for all Lenders, L/C Issuers and other Secured Parties (each as defined in the Credit Agreement described below). Capitalized terms used but not defined herein shall have the meanings herein as such terms have in the Credit Agreement described below.

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RECITALS

A. Beneficiary and the other Secured Parties have agreed, subject to the terms and conditions of that certain Credit Agreement dated as of December 3, 2013 by and among the Grantor, as "Borrower," each other Person who joins in the execution of the Credit Agreement from time to time and agrees to be bound as a "Credit Party", the Lenders, the L/C Issuers from time to time party thereto, Revolver Agent, and Beneficiary, as administrative agent for itself and the Lenders and L/C Issuers (as the same may be amended, restated, amended and restated, supplemented or otherwise modified and in effect from time to time, the **"Credit Agreement"**), to make to the Grantor certain revolving loans (the **"Revolving Loans"**), a Term Loan (the **"Term Loan"**), and a delayed draw term loan(s) (the "**Delayed Draw Term Loans**") as described in the Credit Agreement; the Revolving Loans, the Term Loan, and the Delayed Draw Term Loans are referred to herein collectively as the "**Loans**") in an aggregate principal amount not to exceed $259,000,000. The Revolving Loan is evidenced by the Credit Agreement and may be evidenced by certain Revolving Notes in the original aggregate principal amount of up to $20,000,000 made by the Grantor (which notes, together with all notes issued in substitution or exchange therefor and all amendments and other modifications thereto and restatements thereof, are hereinafter referred to as the **"Revolving Notes"**). The Term Loan is evidenced by the Credit Agreement and may be evidenced by certain Term Notes in the original aggregate principal amount of up to $209,000,000 made by the Grantor (which notes, together with all notes issued in substitution or exchange therefor and all amendments and other modifications thereto and restatements thereof, are hereinafter referred to as the **"Term Notes"**). The Delayed Draw Term Loan is evidenced by the Credit Agreement and may be evidenced by certain Delayed Draw Term Notes in the original aggregate principal amount of up to $30,000,000 made by the Grantor (which notes, together with all notes issued in substitution or exchange therefor and all amendments and other modifications thereto and restatements thereof, are hereinafter referred to as the **"Delayed Draw Term Notes"**; the Revolving Notes, the Term Notes, and the Delayed Draw Term Notes, together with all notes issued in substitution or exchange therefor and all amendments and other modifications thereto and restatements thereof, are referred to herein each individually as a "**Note**" and collectively as the **"Notes"**). The Notes and/or the Credit Agreement provide for certain payments as set forth therein with the balance of (i) the Term Loan and Delayed Draw Term Loans due and payable no later than December 3, 2019 and (ii) the Revolving Loans due and payable no later than December 3, 2018 (as the same may be extended or accelerated from time to time pursuant to the terms and conditions of the Credit Agreement). Capitalized terms used but not defined herein shall have the same meanings herein as such terms have in the Credit Agreement.

EACH NOTE PROVIDES FOR A VARIABLE RATE OF INTEREST WHICH VARIES WITH CHANGES IN THE BASE RATE OR LIBOR IN ACCORDANCE WITH THE PROVISIONS OF SUCH NOTE AND THE CREDIT AGREEMENT.

B. Pursuant to that certain Guaranty and Security Agreement dated as of December 3, 2013 (as the same may be amended, restated, amended and restated, supplemented or otherwise modified and in effect from time to time, the "**Guaranty**"), certain Affiliates of Grantor have guaranteed to Beneficiary and each other of the Secured Parties the prompt payment and performance of all Obligations (as such term is defined in the Credit Agreement) of the Grantor, subject to the terms and conditions set forth therein.

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C. Beneficiary and each other Secured Party wish to secure: (i) the prompt payment of the Obligations (as such term is defined in the Credit Agreement), as well as the prompt payment of any additional indebtedness of the Grantor accruing to the Secured Parties pursuant to the Notes, the Credit Agreement, this Deed of Trust, the Guaranty or any other Loan Document; (ii) the prompt performance of each and every covenant, condition, and agreement of the Grantor contained in the Loan Documents; and (iii) the payment of any and all other debts, claims, obligations, demands, monies, liabilities and indebtedness of any kind or nature now or hereafter owing, arising, due or payable from the Grantor to any Secured Party or Beneficiary in connection with the transactions contemplated by the Credit Agreement, the Guaranty and the other Loan Documents. All obligations, liabilities and indebtedness of every nature of the Grantor to Secured Parties and Beneficiary stipulated in the preceding sentence and arising under or in connection with the transactions contemplated by the Loan Documents or any Secured Rate Contracts are hereinafter sometimes collectively referred to as the **"Obligations"**.

D. It is the intention of the parties hereto that this Deed of Trust is made and executed to comply with the provisions of N.C.G.A. Section 45-67 et seq. and shall secure any and all present and future obligations which Grantor may now or hereafter owe to Beneficiary and the other Secured Parties and therefore, inasmuch as the Credit Agreement provides for advances to be made in the future ("**Future Advances**"), this Deed of Trust is given to, and shall, secure not only existing indebtedness, but also the payment of any and all Future Advances, whether such Future Advances are obligatory or are to be made at the option of Lenders, or otherwise, which are to be made within thirty (30) years from the date of the execution of this Deed of Trust. The total amount of indebtedness secured by this Deed of Trust may decrease or increase from time to time but the total unpaid balance so secured at one time shall not exceed Five Hundred Eighteen Million and No/100 Dollars ($518,000,000) (the **"Maximum Amount"**), plus interest thereon, and any disbursements made for the payment of taxes, levies or insurance on the Property (as hereinafter defined), if any, together with interest on such disbursements. This Deed of Trust secures a revolving, or equity line, credit facility pursuant to which advances may be repaid and reborrowed from time to time up to a maximum amount of Twenty Million and No/100 Dollars ($20,000,000) pursuant to Article 9 of Chapter 45 of the North Carolina General Statutes. Any such advances and reborrowings shall be secured by this Deed of Trust and afforded priority against all subsequent lien holders as if advanced on the date hereof. Grantor hereby agrees that it shall not execute or file or record any notice in the public records of the county in which the Land (as hereinafter defined) is situated limiting the maximum principal amount that may be so secured, and that no such notice shall be of any force and effect whatsoever unless Beneficiary shall have consented thereto in a writing signed by Beneficiary and recorded in the public records of the county in which the Land is situated.

NOW, THEREFORE, IN CONSIDERATION OF LENDERS MAKING THE LOANS AND TO SECURE the prompt payment and performance of all Obligations of the Grantor to the Secured Parties and Beneficiary under the Credit Agreement and other Loan Documents, including all liabilities, obligations and indebtedness of Grantor under this Deed of Trust, Grantor has executed this Deed of Trust and does hereby give, grant, bargain, convey, assign, warrant, transfer and pledge to Trustee, its successors and assigns, in fee simple, forever, for the benefit of Beneficiary on behalf of the Secured Parties WITH POWER OF SALE, all of the following described property and all proceeds thereof (which property is hereinafter sometimes collectively referred to as the "**Property**"):

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A. The real estate described on Exhibit A attached hereto (the **"Land"**);

B. All of the following (collectively, the **"Improvements"**): all buildings, improvements and fixtures of every kind or nature situated on the Land; all machinery, appliances, equipment, furniture and all other personal property of every kind or nature located in or on, or attached to, or used or to be used in connection with the Land, buildings, structures, improvements or fixtures; all building materials and goods procured for use or in connection with the foregoing; and all additions, substitutions and replacements to any of the foregoing;

C. All easements, servitudes, rights-of-way, water courses, mineral rights, water rights, air rights and appurtenances in any way belonging, relating or appertaining to any of the Land or Improvements, or which hereafter shall in any way belong, relate or be appurtenant thereto ("**Appurtenances**");

D. All agreements for the use, enjoyment or occupancy of the Land and/or Improvements now or hereafter entered into (the **"Leases"**) and all rents, prepayments, termination payments, royalties, profits, issues and revenues from the Land and/or Improvements from time to time accruing under the Leases or otherwise (the **"Rents"**), reserving to Grantor, however, so long as no "Event of Default" (hereinafter defined) has occurred, a revocable license to receive and apply the Rents in accordance with the terms and conditions of **Section 9** of this Deed of Trust;

E. To the extent assignable, Grantor's interest in all claims, demands, judgments, insurance proceeds, tax refunds, rights of action, awards of damages, compensation, and settlements hereafter made resulting from or relating to (i) the taking of the Land or the Improvements or any part thereof under the power of eminent domain, (ii) any damage (whether caused by such taking, by casualty or otherwise) to the Land, Improvements or Appurtenances or any part thereof, or (iii) the ownership or operation of the Property;

F. To the extent assignable, all now or hereafter existing management contracts and all permits, certificates, licenses, agreements, approvals, entitlements and authorizations, however characterized, issued or in any way furnished for the acquisition, construction, operation and use of the Land, Appurtenances, Improvements and/or Leases, including building permits, environmental certificates, licenses, certificates of operation, warranties and guaranties;

G. All proceeds, products, replacements, additions, substitutions, renewals and accessions of and to the Land, Improvements, Appurtenances or any other property of the types described in the preceding granting clauses; and

H. Any and all after-acquired right, title or interest of Grantor in and to any property of the types described in the preceding granting clauses.

TO HAVE AND TO HOLD the Property and all parts thereof together with the rents, issues, profits and proceeds thereof, unto Trustee, its successors and assigns, for the benefit of Beneficiary, in fee simple forever, subject, however, to the terms, covenants, and conditions herein.

Grantor covenants and agrees with each Lender and Beneficiary as follows:

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1. Payment of Indebtedness; Performance of Obligations.

Grantor shall promptly pay and perform when due all the Obligations.

2. Taxes and Other Obligations.

Grantor shall pay, when due, and before any interest, collection fees or penalties shall accrue, all taxes, assessments, fines, impositions and other charges that have heretofore been, or may hereafter be, imposed, levied or assessed upon, or against, the Property, or any part thereof, subject, however, to Grantor's right to contest the amount or validity thereof, subject to and in accordance with, the terms and conditions set forth in the Credit Agreement.

3. Use of Property.

Unless required by applicable law or permitted under the Credit Agreement, Grantor shall not permit material changes in the use of any part of the Property from the use existing at the time this Deed of Trust was executed. Grantor shall not initiate or acquiesce in a change in the zoning classification of the Property without Beneficiary's prior written consent, which consent shall not be unreasonably withheld.

4. Insurance and Condemnation.

(a) Insurance.

(i) Grantor shall keep the Improvements insured, and shall maintain general liability and other insurance coverage, all in such amounts and as is otherwise required by the Credit Agreement.

(ii) In case of loss or damage by fire or other casualty, Grantor shall give immediate written notice thereof to the insurance carrier(s) and to Beneficiary. Beneficiary is authorized and empowered, and Grantor hereby irrevocably appoints Beneficiary as its attorney-in-fact (such appointment is coupled with an interest), at its option, to, during the continuance of an Event of Default, make or file proofs of loss or damage and to settle and adjust any claim under insurance policies which insure against such risks, or to direct Grantor, in writing, to agree with the insurance carrier(s) on the amount to be paid in regard to such loss. The insurance proceeds are hereby assigned as security to Beneficiary.

(b) Condemnation.

Grantor shall upon its receipt of notice thereof, notify Beneficiary of any action or proceeding relating to any condemnation or other taking, whether direct or indirect, of the Property, or part thereof, and Grantor shall, after consultation with Beneficiary, appear in and prosecute any such action or proceeding. Upon Grantor's failure to act if an Event of Default then exists, Grantor authorizes Beneficiary, at Beneficiary's option, as attorney-in-fact for Grantor (such appointment as attorney-in-fact is coupled with an interest), to commence, appear in and prosecute, in Beneficiary's or Grantor's name, any action or proceeding relating to any condemnation or other taking of the Property, and to settle or compromise any claim in connection with such condemnation or other taking. The proceeds of any award, payment or

claim for damages, direct or consequential, in connection with any condemnation or other taking of the Property, or part thereof, or for conveyances in lieu of condemnation, are hereby assigned to and shall be paid to Beneficiary and applied in accordance with the Credit Agreement. Beneficiary is authorized (but is under no obligation) to collect any such proceeds.

5. Preservation and Maintenance of Property.

Grantor shall: (a) not commit waste or permit any material impairment or deterioration of the Property, subject to ordinary wear and tear and damage by fire or other casualty; (b) not abandon the Property; (c) keep the Property in good repair and restore or repair promptly, in a good and workmanlike manner, all or any part of the Property to the equivalent of its condition as of the date hereof, subject to ordinary wear and tear, or such other condition as Beneficiary may approve in writing, upon any damage or loss thereto; (d) comply in all material respects with all laws, ordinances, regulations and requirements of any governmental body applicable to the Property; and (e) give notice in writing to Beneficiary of and, unless otherwise directed in writing by Beneficiary, appear in and defend any action or proceeding purporting to affect the Property, the security granted by the Loan Documents or the rights or powers of the Secured Parties or Beneficiary.

6. Protection of Security.

If (a) the Grantor fails to pay or perform the Obligations, or (b) any action or proceeding is commenced which adversely affects or would reasonably be expected to adversely affect the Property or any Secured Party's or Beneficiary's interest therein, including any loss, damage, cost, expense or liability incurred by any Secured Party or Beneficiary with respect to (i) any environmental matters relating to the Property or (ii) the preparation of the commencement or defense of any action or proceeding or any threatened action or proceeding affecting the Loan Documents or the Property, then Beneficiary, at its option, may make such appearances, disburse such sums and take such action as it deems reasonably necessary, to protect the Property or Secured Parties' or Beneficiary's interest therein, including entry upon the Property to take such actions it reasonably determines appropriate to preserve, protect or restore the Property. Any amounts disbursed pursuant to this **Section 6** (including reasonable attorneys' fees, costs and expenses), together with interest thereon at the default rate of interest specified in the Credit Agreement (the **"Default Rate"**) from the date of disbursement, shall become additional indebtedness of Grantor secured by the lien of this Deed of Trust and shall be due and payable on demand. Nothing contained in this **Section 6** shall require Beneficiary to incur any expense or take any action hereunder.

7. Inspection.

Beneficiary and its authorized agents may make or cause to be made reasonable entries upon and inspections of the Property in accordance with the terms, conditions and provisions of the Credit Agreement.

8. Covenants.

(a) Grantor hereby represents and warrants unto each Secured Party and Beneficiary that, at the time of the execution, delivery and recordation of this Deed of Trust, Grantor owns

good and marketable title to, and is well seized of, an indefeasible estate in fee simple absolute in that portion of the Property that constitutes real property and has good and marketable title to that portion of the Property that constitutes fixtures or personal property, in each instance free from all liens, encumbrances, charges and other claims whatsoever, except for Permitted Liens, and that the lien created on the Property by this Deed of Trust is a first, paramount and prior lien on said real property, subject only to Permitted Liens.

(b) Grantor shall and will forever warrant and defend the title to the Property against the claims of any and all persons and entities whatsoever, other than the Permitted Liens. Grantor shall not do or permit, cause or suffer to be done to, or omit to do, or permit the omission of, in, upon or about said Property, or any part thereof, anything that may in any way impair the validity, priority and/or enforceability of this Deed of Trust.

(c) Grantor represents and covenants that (i) all licenses, permits, approvals, franchises and certificates, including certificates of completion and occupancy permits required by law or regulation for the ownership and operation of the Property have been obtained and are and shall remain in full force and effect and (ii) the use and occupancy of the Property is and shall remain in compliance with all applicable laws, except, in each case referred to in clause (c)(i) or clause (c)(ii), to the extent that the failure to do so would not reasonably be expected to have, either individually or in the aggregate, a Material Adverse Effect.

9. <u>Assignment of Lease</u>.

(a) As part of the consideration for the indebtedness evidenced by the Loan Documents, Grantor absolutely and unconditionally assigns, transfers and sets over to Beneficiary, for the benefit of itself and the other Secured Parties, all right, title and interest in and to all Rents and all right, title and interest under or by virtue of any and all Leases, subleases, licenses, concessions, tenancies, and any other agreements creating the right of possession or the right of use without a transfer of title, whether written or oral, now or hereafter existing, and covering all or any part of the Property, together with any and all security deposits made thereunder, all extensions, amendments, modifications, renewals, and replacements thereof, and any guaranties of the lessee's, sublessee's, licensee's, concessionaire's, tenant's, or user's obligations thereunder. Beneficiary grants to Grantor a license to collect, subject to the provisions herein, such Rents, as they respectively become due, but not more than thirty (30) days in advance, and to enforce the agreement of the Leases, so long as there shall not have occurred and be continuing an Event of Default, provided, however, that Grantor shall use the Rents in a manner not prohibited by the Credit Agreement. This absolute and present assignment shall be fully operative without any further action on the part of Grantor, Beneficiary or any Lender.

(b) Grantor hereby authorizes Beneficiary or Beneficiary's agents to collect the aforesaid rents and revenues and hereby directs each tenant of the Property to pay such rents to Beneficiary or Beneficiary's agents; provided, however, that prior to written notice given by Beneficiary to Grantor of the breach beyond any applicable notice and cure periods by Grantor of any covenant or agreement of Grantor in this Deed of Trust or the Loan Documents, Grantor shall collect and receive all rents and revenues of the Property as trustee for the benefit of Beneficiary, to apply the rents and revenues so collected to the sums then due and payable and

secured by this Deed of Trust hereof with the balance, so long as no such breach beyond any applicable notice and cure periods has occurred, to the account of Grantor, it being intended by Grantor and Beneficiary that this assignment of rents constitutes an absolute assignment and not an assignment for additional security only. Upon delivery of written notice by Beneficiary to Grantor of the breach beyond any applicable notice and cure periods by Grantor of any covenant or agreement of Grantor in this Deed of Trust or the Loan Documents and without the necessity of Beneficiary entering upon and taking and maintaining full control of the Property in person, by agent or by a court-appointed receiver, Beneficiary shall immediately be entitled to possession of all rents and revenues of the Property as specified in this Paragraph as the same thereafter become due and payable, including but not limited to rents then due and unpaid, and all such rents shall immediately upon delivery of such notice be held by Grantor as trustee for the benefit of Beneficiary only. Grantor agrees that commencing upon delivery of such written notice of Grantor's breach beyond any applicable notice and cure periods by Beneficiary to Grantor, each tenant of the Property shall make such rents payable to and pay such rents to Beneficiary or Beneficiary's agents on Beneficiary's written demand to each tenant therefor, delivered to each tenant personally, by mail or delivering such demand to each rental unit, without any liability on the part of said tenant to inquire further as to the existence of a default by Grantor.

(c) If the rents of the Property are not sufficient to meet the costs, if any, of taking control of and managing the Property and collecting the rents, any funds reasonably expended by Beneficiary for such purposes shall become indebtedness of Grantor to Beneficiary secured by this Deed of Trust. Unless Beneficiary and Grantor agree in writing to other terms of payment, such amounts shall be payable within ten (10) Business Days after notice from Beneficiary to Grantor requesting payment thereof and shall bear interest from the date of disbursement at the rate stated in the Credit Agreement. Any entering upon and taking and maintaining of control of the Property by Beneficiary or the receiver and any application of rents as provided herein shall not cure or waive any default hereunder or invalidate any other right or remedy of Beneficiary under applicable law or as provided herein. This assignment of rents shall terminate at such time as this Deed of Trust ceases to secure indebtedness of Grantor or any guarantor thereof held by Beneficiary.

10. Transfers of the Property; No Additional Liens.

Except as permitted by the Credit Agreement, Grantor agrees that it shall not: (i) transfer, sell or convey all or any portion of the Property; and/or (ii) further encumber or pledge all or any portion of the Property.

11. Uniform Commercial Code Security Agreement.

(a) This Deed of Trust shall constitute a security agreement pursuant to the Uniform Commercial Code for any portion of the Property which, under applicable law, may be subject to a security interest pursuant to the Uniform Commercial Code (such portion of the Property is hereinafter called the **"Personal Property"**), and Grantor hereby grants to Beneficiary, for the benefit of Secured Parties, a security interest in the Personal Property. Beneficiary shall have all of the rights and remedies of a secured party under the Uniform Commercial Code as well as all other rights available at law or in equity. Any reproduction of this Deed of Trust or of any other

security agreement or financing statement shall be sufficient as a financing statement. In addition, Grantor agrees to execute and deliver to Beneficiary any financing statements, as well as extensions, renewals and amendments thereof, and reproductions of this Deed of Trust in such form as Beneficiary may require to perfect a security interest with respect to the Personal Property. Grantor hereby authorizes and empowers Beneficiary and irrevocably appoints Beneficiary its agent and attorney-in-fact to execute and file, on Grantor's behalf, all financing statements and refilings and continuations thereof as Beneficiary deems necessary or advisable to create, preserve and protect such lien. Grantor shall pay all actual out-of-pocket costs of filing such financing statements and any extensions, renewals, amendments and releases thereof, and shall pay all reasonable costs and expenses of any record searches for financing statements as Beneficiary may reasonably require. Without limitation of the foregoing, if an Event of Default occurs and is continuing, Beneficiary shall be entitled immediately to exercise all remedies then available to it under the Uniform Commercial Code.

(b) Any party to any contract subject to the security interest granted herein shall be entitled to rely on the rights of Beneficiary without the necessity of any further notice or action by Grantor. Beneficiary shall not by reason of this Deed of Trust or the exercise of any right granted hereby be obligated to perform any obligation of Grantor with respect to any portion of the Personal Property nor shall Beneficiary be responsible for any act committed by Grantor, or any breach or failure to perform by Grantor with respect to any portion of the Personal Property.

(c) To the extent permitted by law, Grantor and Beneficiary agree that with respect to all items of Personal Property which are or will become fixtures on the Land, this Deed of Trust, upon recording or registration in the real estate records of the proper office, shall constitute a "fixture filing" within the meaning of the Uniform Commercial Code. Grantor is the record owner of the Land. The name and address of the Grantor as debtor, is set forth on the first page of this Deed of Trust. The name and address of Beneficiary, as secured party, and from whom information concerning the security interest created herein may be obtained, is set forth on the first page of this Deed of Trust. The provisions set forth in the recitals of this Deed of Trust describe the types and items of the personal property affixed or to be affixed to the Land and the Improvements. The fixtures are related to the Land and incorporated herein by reference. The Grantor is a limited liability company organized under the laws of the State of Delaware.

12. <u>Events of Default; Acceleration of Indebtedness.</u>

The occurrence of an Event of Default under the Credit Agreement shall constitute an **"Event of Default"** under this Deed of Trust.

During the continuance of an Event of Default, at the option of Beneficiary, the Obligations shall become immediately due and payable without notice to Grantor and Beneficiary shall be entitled to all of the rights and remedies provided in the Loan Documents or at law or in equity. Each remedy provided in the Loan Documents is distinct and cumulative to all other rights or remedies under the Loan Documents or afforded by law or equity, and may be exercised concurrently, independently, or successively, in any order whatsoever.

It is specifically covenanted and agreed that the Beneficiary may proceed, at the same or different times, to foreclose this Deed of Trust or any of the other security documents as shall

have been executed and delivered in connection with the extension of the Loans to the Grantor (the "**Other Security Documents**") or resort to any of its other remedies thereunder, by any proceedings appropriate in the state where any of the land lies, and that no event of enforcement taking place in any state, including, without limiting the generality of the foregoing, any pending foreclosure, judgment or decree of foreclosure, foreclosure sale, rents received, possession taken, deficiency judgment or decrees, or judgment taken on any of the Notes or the other Loan Documents, shall in any way stay, preclude or bar enforcement of this Deed of Trust or any of the Other Security Documents or any of them in any other state, and that Beneficiary may pursue any or all of its remedies to the maximum extent permitted by state law until all Obligations have been paid or discharged in full.

13. **Entry; Foreclosure.**

(a) During the continuance of an Event of Default, Grantor, upon demand of Beneficiary, shall forthwith surrender to Beneficiary the actual possession of the Property, or to the extent permitted by law, Beneficiary or its officers or agents or a receiver appointed by a court of competent jurisdiction, may enter and take possession of all or any part of the Property, and may exclude Grantor and its agents and employees wholly therefrom. If Grantor shall for any reason fail to surrender or deliver the Property or any part thereof after such demand by Beneficiary, Beneficiary, Trustee or such receiver may obtain a judgment or decree conferring on Beneficiary, Trustee or such receiver, the right to immediate possession of all or any part of the Property or requiring the delivery of all or any part of the Property to Beneficiary, Trustee or such receiver, and Grantor specifically consents to the entry of such judgment or decree. Upon every such entering upon or taking of possession, Beneficiary, Trustee or such receiver may hold, store, use, operate, manage and control the Property (or applicable portion thereof) and conduct the business thereof, and Beneficiary, Trustee or such receiver may take any action required by applicable law or which Beneficiary, Trustee or such receiver reasonably believes necessary to enforce compliance with applicable law. Beneficiary, Trustee and such receiver and their representatives shall have no liability for any loss, damage, injury, cost or expense resulting from any action or omission which was taken or omitted in good faith.

(b) When the Obligations, or any part thereof, shall become due, whether by acceleration or otherwise, Beneficiary may, either with or without entry or taking possession as herein provided or otherwise, proceed by suit or suits at law or in equity or by any other appropriate proceeding or remedy to: (a) enforce payment of the Notes or the performance of any term, covenant, condition or agreement of Grantor under any of the Loan Documents; (b) notify the Trustee to foreclose the lien hereof for the Obligations or part thereof by power of sale or judicial action, and sell the Property as an entirety or otherwise, as Beneficiary may determine; and/or (c) pursue any other right or remedy available to it under or by the law and decisions of the State in which the Land is located. Notwithstanding any statute or rule of law to the contrary, the failure to join any tenant or tenants of the Property as party defendant or defendants in any foreclosure action or the failure of any such order or judgment to foreclose their rights shall not be asserted by Grantor as a defense in any civil action instituted to collect (i) the indebtedness secured hereby, or any part thereof or (ii) any deficiency remaining unpaid after foreclosure and sale of the Property or any part thereof.

Beneficiary shall have all of the rights and remedies provided in the Uniform

Commercial Code of North Carolina including the right to proceed under the Uniform Commercial Code of North Carolina provisions governing default as to any personal property separately from the real estate included within the Property, or to proceed as to all or part of the Property in accordance with its rights and remedies in respect thereof. If Beneficiary should elect to proceed separately as to such personal property, Grantor agrees to make such personal property available to Beneficiary at a place or places acceptable to Beneficiary, and if any notification of intended disposition of any such personal property is required by law, such notification shall be deemed reasonably and properly given if given at least ten (10) days before such disposition in the manner herein provided.

Upon notification by the Beneficiary under this Section, the Trustee is authorized and empowered to expose to sale and to sell the Property or any part thereof at public sale to the highest bidder for cash, in compliance with all applicable requirements of North Carolina law then governing the exercise of powers of sale contained in deeds of trust and upon such sale, the Trustee shall collect the purchase proceeds and convey title to the portion of the Property so sold to the purchaser in fee simple. Upon any power of sale foreclosure sale, Beneficiary and any Secured Party may bid for and purchase the Property and shall be entitled to apply all or any part of the Obligations owing to it as a credit to the purchase price.

(c) Rights and Remedies Cumulative. Beneficiary and Trustee shall have all powers, rights and remedies under applicable law whether or not specifically or generally granted or described in this Deed of Trust. Nothing contained herein shall be construed to impair or to restrict such powers, rights and remedies or to preclude any procedures or process otherwise available to beneficiaries or trustees in North Carolina. Beneficiary and Trustee shall be entitled to enforce the payment and performance of the Obligations and to exercise all rights and powers under this Deed of Trust or under any other Loan Document or other agreement of any laws now or hereafter in force, notwithstanding the fact that some or all of the Obligations may now or hereafter be otherwise secured, whether by mortgage, pledge, lien, assignment or otherwise. Neither the acceptance of this Deed of Trust nor its enforcement, whether by court action or pursuant to the power of sale or other powers contained herein, shall prejudice or in any manner affect Beneficiary's or Trustee's right to realize upon or enforce any other rights or security now or hereafter held by Beneficiary or Trustee. Beneficiary and Trustee shall be entitled to enforce this Deed of Trust and any other rights or security now or hereafter held by Beneficiary of Trustee in such order and manner as they or either of them may in its absolute discretion determine. No remedy herein conferred upon or reserved to Beneficiary or Trustee is intended to be exclusive of any other remedy contained herein or by law provided or permitted, but each shall to the extent permitted by law be cumulative and in addition to every other remedy given hereunder or now or hereafter existing at law or in equity. Every power or remedy given by any of the Loan Documents to Beneficiary or Trustee, or to which either of them may be otherwise entitled, may be exercised, concurrently or independently, from time to time and as often as may be deemed expedient by Beneficiary or Trustee, and Beneficiary and Trustee may pursue inconsistent remedies. By exercising or by failing to exercise any right, option or election hereunder, Beneficiary shall not be deemed to have waived any provision hereof or to have released Grantor from any of the obligations secured hereby unless such waiver or release is in writing and signed by Beneficiary and, if necessary, Required Lenders. The waiver by Beneficiary of Grantor's failure to perform or observe any term, covenant or condition referred to or contained herein to be performed or observed by Grantor shall not be deemed to be a

waiver of such term, covenant or condition or of any subsequent failure of Grantor to perform or observe the same or any other such term, covenant or condition referred to or contained herein, and no custom or practice which may develop between Grantor, Beneficiary and any Secured Party during the term hereof shall be deemed a waiver of or in any way affect the right of Beneficiary to insist upon the performance by Grantor of the obligations secured hereby in strict accordance with the terms hereof or of any other Loan Document.

14. Expenditures and Expenses.

(a) In any action to foreclose the lien hereof or otherwise enforce Beneficiary's and Trustee's rights and remedies hereunder, there shall be allowed and included as additional indebtedness secured hereby all reasonable expenditures and expenses which may be paid or incurred by or on behalf of Beneficiary and Trustee including reasonable repair costs, payments to remove or protect against liens, attorneys' fees, costs and expenses, receivers' fees, costs and expenses, appraisers' fees, engineers' fees, accountants' fees, fees, costs and expenses in connection with any environmental matters concerning the Property, outlays for documentary and expert evidence, stenographers' charges, stamp taxes, publication costs, and costs (which may be estimates as to items to be expended after entry of an order or judgment) for procuring all such abstracts of title, title searches and examination, title insurance policies, and similar data and assurances with respect to title as Beneficiary may deem reasonably necessary either to prosecute any action or to evidence to bidders at any sale which may be had pursuant to an order or judgment the true condition of the title to, or the value of, the Property. All expenditures and expenses of the nature mentioned in this **Section 14** and such reasonable costs, expenses and fees as may be incurred or as may be owing to Beneficiary in the protection of the Property and the maintenance of the lien of this Deed of Trust, including the reasonable fees, costs and expenses of any attorneys employed by Beneficiary in any litigation or proceeding affecting this Deed of Trust, the other Loan Documents to which Grantor is a party or the Property, including probate, appellate and bankruptcy proceedings, or in preparations for the commencement or defense of any action or proceeding or threatened action or proceeding, including reasonable costs and expenses in connection with obtaining any court order or the appointment of a receiver, shall be immediately due and payable to Beneficiary, with interest thereon at the rate of interest described in Section 3.1(c) of the Credit Agreement, and shall be secured by this Deed of Trust. In addition to the foregoing award of reasonable attorneys' fees and costs, Beneficiary shall be entitled to its reasonable attorneys' fees and costs incurred in any post-judgment proceedings to collect or enforce any judgment or order relating to this Deed of Trust, or the other Loan Documents to which Grantor is a party. This provision is separate and several and shall survive the merger of this provision into any judgment.

(b) Without limiting Beneficiary's rights and remedies set forth in **Section 14(a)** above, following the occurrence and during the continuance of an Event of Default, Beneficiary, both before and after acceleration of the Obligations or the foreclosure of the lien hereof and during the period of redemption, if any, may, but shall not be required to do any one or more of the following: (i) make any payment or perform any act herein, or in the Credit Agreement, the Notes, any of the other Loan Documents or any document or instrument related thereto which is required of Grantor (whether or not Grantor is personally liable therefor) in any form and manner deemed expedient to Beneficiary, (ii) make full or partial payments of principal or interest on any permitted prior mortgage, this Deed of Trust or any other encumbrances securing the

payment of money and having priority over this Deed of Trust, (iii) purchase, discharge, compromise or settle any tax lien or other prior lien or title or claim thereof having priority over this Deed of Trust, (iv) redeem from any tax sale or forfeiture affecting the Land, (v) contest any impositions, or (vi) complete construction, furnishing and equipping of the improvements upon the Land and rent, operate and manage the Property and such improvements and pay operating costs and expenses, including management fees, of every kind and nature in connection therewith, so that the Property and its improvements shall be operational and usable for their intended purposes. All monies paid by Beneficiary in its reasonable discretion for any of the purposes herein authorized, and all reasonable expenses paid or incurred in connection therewith, including reasonable attorneys' fees and any other monies advanced by Beneficiary in its reasonable discretion to protect the Property and the lien hereof, or to complete construction, furnishing and equipping or to rent, operate and manage the Property and its improvements or to pay any such operating costs and expenses thereof or to keep the Property and its improvements operational and usable for their intended purposes, shall constitute a part of the Obligations, up to the Maximum Amount, and shall become due and payable upon demand. Beneficiary, in making any payment hereby authorized: (a) for the payment of impositions, may do so according to any bill, statement or estimate, without inquiry into the validity of any tax, assessment, sale, forfeiture, tax lien or title or claim thereof; (b) for the purchase, discharge, compromise or settlement of any other prior lien, may do so without inquiry as to the validity or amount of any claim or lien which may be asserted; or (c) for the completion of construction, furnishing or equipping of the Property and its improvements or the rental, operation or management of the Property and its improvements or the payment of operating cost and expenses thereof, may do so in such amounts and to such persons as Beneficiary may deem appropriate and may enter into such contracts therefor as Beneficiary may deem appropriate or may perform the same itself.

15. Application of Proceeds of Foreclosure Sale.

After deducting all reasonable costs, fees and expenses of Beneficiary and Trustee, including, without limitation, costs of evidence of title and actual and customary attorneys' fees of Beneficiary and Trustee in connection with a sale as provided in **Section 13** above, the proceeds of any foreclosure sale of the Property shall be distributed and applied in the order of priority set forth in the Credit Agreement with the excess, if any, being applied, to be distributed to the Person or Persons legally entitled thereto.

16. Appointment of Receiver or Beneficiary in Possession.

If an Event of Default has occurred and is continuing or if Beneficiary shall have accelerated the indebtedness secured hereby, Beneficiary, upon application to a court of competent jurisdiction, whether in conjunction with Beneficiary's commencement of proceedings to foreclose the lien hereof, or pursuant to other proceedings, shall be entitled as a matter of strict right, without notice, and without regard to the occupancy or value of the Property or any other security for the indebtedness or the insolvency of any party bound for its payment, in each of the foregoing instances, to the extent permitted by applicable law, to the appointment of a receiver to take possession of and to operate the Property, or any portion thereof, and to collect and apply the Rents and Grantor hereby irrevocably consents to such appointment and waives notice of any application therefor. The appointment of such receiver

shall not impair or in any manner prejudice the rights of Grantor to receive the Rents pursuant to this Deed of Trust.

17. After - Acquired Property.

To the extent permitted by, and subject to, applicable law, the lien of this Deed of Trust, including without limitation the security interest created under the granting clauses of this Deed of Trust, shall automatically attach, without further act, to all property hereafter acquired by Grantor located in or on, or attached to, or used or intended to be used in connection with, or with the operation of, the Property or any part thereof.

18. Trustee Provisions.

(a) Beneficiary may from time to time apply in any court of competent jurisdiction for aid and direction in the execution of the trusts hereunder and the enforcement of the rights and remedies available hereunder and Beneficiary may obtain orders or decrees directing or confirming or approving acts in the execution of such trusts and the enforcement of such remedies. Trustee has no obligation to notify any party of any pending sale or any action or proceeding unless held or commenced and maintained by Trustee under this Deed of Trust. For Trustee's services hereunder, Grantor shall pay to Trustee its normal and customary hourly rate and reimburse the Trustee for expenses in the enforcement of the trusts created hereunder, including reasonable attorney's fees. Grantor shall indemnify Trustee, Beneficiary and each Secured Party against all losses, claims, demands and liabilities which either may incur, suffer or sustain in the execution of the trusts created hereunder or in the performance of any act required or permitted hereunder or by law.

(b) Beneficiary, at Beneficiary's sole option and discretion, may from time to time appoint a substitute trustee (the "**Substitute Trustee**") in replacement of any Trustee appointed hereunder, by instrument executed and acknowledged by Beneficiary, or its successors in interest, and recorded in the land records of the public office wherein the Deed of Trust is recorded. The instrument appointing the Substitute Trustee shall contain the names of the original Beneficiary, Trustee, Grantor, and the book and page number where this Deed of Trust is recorded, and the name and address of the Substitute Trustee. The Substitute Trustee, without conveyance of the Property, shall succeed to all the title, power and duties conferred upon the Trustee in this Deed of Trust and by applicable law.

19. Forbearance by Beneficiary Not a Waiver.

Any forbearance by Beneficiary or any Secured Party in exercising any right or remedy under any of the Loan Documents, or otherwise afforded by applicable law, shall not be a waiver of or preclude the exercise of any right or remedy. Beneficiary's or any Secured Party's acceptance of payment of any sum secured by any of the Loan Documents after the due date of such payment shall not be a waiver of Beneficiary's or such Secured Party's right to either require prompt payment when due of all other sums so secured or to declare a default for failure to make prompt payment. The procurement of insurance or the payment of taxes or other liens or charges by Beneficiary shall not be a waiver of Beneficiary's right to accelerate the maturity of the indebtedness secured hereby, nor shall Beneficiary's receipt of any awards, proceeds or

damages under **Section 4** hereof operate to cure or waive Grantor's default in payment or sums secured by any of the Loan Documents. With respect to all Loan Documents, only waivers made in writing by Beneficiary and, to the extent required, Required Lenders shall be effective against Beneficiary and Lenders.

20. Waiver of Statute of Limitations.

To the extent permitted by applicable law, Grantor hereby waives the right to assert any statute of limitations as a bar to the enforcement of the lien created by any of the Loan Documents or to any action brought to enforce the Notes or any other obligation secured by any of the Loan Documents.

21. Waivers.

Grantor, on behalf of itself, its successors and assigns, and each and every person it may legally bind acquiring any interest in, or title to, the Property on or subsequent to the date of this Deed of Trust, (i) does hereby expressly waive any and all rights of appraisement, valuation, stay, extension, reinstatement and (to the extent permitted by law) redemption from sale under any order or decree of foreclosure of this Deed of Trust, (ii) does hereby waive any equitable, statutory or other right available to it, in respect to marshalling of assets hereunder, so as to require the separate sales of interests in the Property before proceeding against any other interest in the Property, (iii) does hereby expressly consent to and authorize, at the option of Beneficiary, the sale, either separately or together, of any and all interests in the Property, (iv) does hereby agree that in no event shall Beneficiary or Lenders be required to allocate any proceeds received from foreclosure sale or otherwise, to all or any interest in the Property, and (v) does hereby agree that when sale is had under any decree of foreclosure of this Deed of Trust, upon confirmation of such sale, the master in chancery, sheriff or other officer making such sale, or his successor in office, shall be and is authorized immediately to execute and deliver to the purchaser at such sale a deed conveying the Property, showing the amount paid therefor, or if purchased by the person in whose favor the order or decree is entered, the amount of his bid therefor. Beneficiary shall have the right to determine the order in which any or all portions of the indebtedness secured hereby are satisfied from the proceeds realized upon the exercise of the remedies provided herein. Beneficiary, any party who consents to this Deed of Trust, and any party who now or hereafter acquires a security interest in the Property and who has actual or constructive notice hereof hereby, waives any and all right to require the marshalling of assets in connection with the exercise of any of the remedies permitted by applicable law or provided herein. Grantor hereby waives any rights or remedies on account of any extensions of time, releases granted or other dealings between Beneficiary and any subsequent owner of the Property as said activities are contemplated or otherwise addressed in N.C. Gen. Stat. Sec. 45-45.1 or any similar or subsequent law.

22. Governing Law; Severability.

This Deed of Trust shall be governed by and construed in accordance with the internal laws of the State of New York except that the provisions of the laws of the State of North Carolina shall be applicable to the creation, perfection and enforcement of the lien created by this Deed of Trust and the exercise of remedies which are mandatorily governed by the laws of the

State of North Carolina; provided, however, that those liens and security interests in the Property whose perfection and priority is covered by Article 9 of the Uniform Commercial Code as in effect in the State of North Carolina shall be governed by the law of the jurisdiction applicable thereto in accordance with Article 9 of the Uniform Commercial Code as in effect in the State of North Carolina. The invalidity, illegality or unenforceability of any provision of this Deed of Trust shall not affect or impair the validity, legality or enforceability of the remainder of this Deed of Trust, and to this end, the provisions of this Deed of Trust are declared to be severable.

23. Notice.

Unless otherwise specifically provided herein or required by law, all notices, requests and other communications provided for hereunder shall be (a) given pursuant to Section 9.2 of the Credit Agreement or (b) given under the specifications of this **Section 23** in writing (including, by facsimile transmission) and mailed by certified or registered mail, faxed or delivered, to the address or facsimile number specified below or to such other address as shall be designated by such party in a written notice to each of the other parties hereto given in compliance herewith. All such notices, requests and communications shall, when transmitted by overnight delivery, or faxed, be effective when delivered for overnight (next day) delivery, or transmitted by facsimile machine, respectively, or if mailed, upon the third Business Day after the date deposited into the U.S. Mail, certified or registered, or if delivered, upon delivery.

Notices shall be addressed as follows:

Notices to Grantor:	Engineered Controls International, LLC 100 Rego Drive Elon, North Carolina 27244 Attention: Michael Burdi Facsimile: [_____ _____]
with copies to:	Windjammer Capital Investors, LLC 890 Winter Street, Suite 130 Waltham, Massachusetts 02451 Attention: John Donahue Facsimile: (781) 530-9200 and Windjammer Capital Investors, LLC 890 Winter Street, Suite 130 Waltham, Massachusetts 02451 Attention: Graham Schena Facsimile: (781) 530-9200
Notices to Beneficiary:	General Electric Capital Corporation 500 West Monroe Street Chicago, Illinois 60661 Attention: Engineered Controls Account Manager

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Facsimile: (312) 441-7211

with a copy to: Katten Muchin Rosenman LLP
525 W. Monroe Street
Chicago, Illinois 60661
Attention: Allison Gott
Facsimile: (312) 902-1061

24. Successors and Assigns Bound; Joint and Several Liability; Agents; Captions.

The covenants and agreements contained in the Loan Documents shall bind, and the rights thereunder shall inure to, the respective successors and assigns of Beneficiary and Grantor, subject to the provisions of **Section 10** hereof. In exercising any rights under the Loan Documents or taking any actions provided for therein, Beneficiary may act through its employees, agents or independent contractors as authorized by Beneficiary. The captions and headings of the paragraphs of this Deed of Trust are for convenience only and are not to be used to interpret or define the provisions hereof.

25. Release.

Upon payment of all sums secured by this Deed of Trust, Beneficiary shall release this Deed of Trust and any financing statements related hereto. Grantor shall pay Beneficiary's reasonable costs incurred in releasing this Deed of Trust and any financing statements related hereto.

26. Time of Essence.

Time is of the essence of this Deed of Trust and the performance of each of the covenants and agreement contained herein.

27. Jury Trial Waiver.

THE PARTIES HERETO, TO THE EXTENT PERMITTED BY LAW, WAIVE ALL RIGHT TO TRIAL BY JURY IN ANY ACTION, SUIT OR PROCEEDING, ARISING OUT OF, IN CONNECTION WITH OR RELATING TO, THIS DEED OF TRUST, THE OTHER LOAN DOCUMENTS AND ANY OTHER TRANSACTION CONTEMPLATED HEREBY AND THEREBY. THIS WAIVER APPLIES TO ANY ACTION, SUIT OR PROCEEDING WHETHER SOUNDING IN TORT, CONTRACT OR OTHERWISE.

28. Remedies/Deed of Trust Foreclosure Law.

(a) In the event that any provision in this Deed of Trust shall be inconsistent with any applicable provision of the laws of the State of North Carolina governing foreclosure or the exercise of other remedies related to the Property (herein collectively called the "**Laws**"), the provisions of the Laws shall take precedence over the provisions of this Deed of Trust, but shall not invalidate or render unenforceable any other provision of this Deed of Trust that can be construed in a manner consistent with the Laws.

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(b) If any provision of this Deed of Trust shall grant to Beneficiary any rights or remedies upon default of the Grantor which are more limited than the rights that would otherwise be vested in Beneficiary under the Laws in the absence of said provision, Beneficiary shall be vested with the rights granted in the Laws to the full extent permitted by law.

(c) Without limiting the generality of the foregoing, all expenses incurred by Beneficiary to the extent reimbursable under the Laws, whether incurred before or after any decree or judgment of foreclosure, and whether or not provided for elsewhere in this Deed of Trust, shall be added to the indebtedness secured by this Deed of Trust or by the judgment of foreclosure.

29. Relationship.

The relationship between each Secured Party (and Beneficiary) and Grantor shall be that of creditor-debtor only. No term in this Deed of Trust or in any of the other Loan Documents and no course dealing between the parties shall be deemed to create any relationship of agency, partnership or joint venture or any fiduciary duty by Beneficiary or any Secured Party to Grantor or any other party.

[remainder of page intentionally left blank; signature page follows]

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IN WITNESS WHEREOF, Grantor has executed this Deed of Trust, Assignment of Leases and Rents, Security Agreement and Fixture Filing or has caused the same to be executed by its duly authorized representatives as of the date first above written.

GRANTOR:

ENGINEERED CONTROLS INTERNATIONAL, LLC, a Delaware limited liability company (SEAL)

By: Thomas J Farrell (SEAL)
Name: Thomas J. Farrell
Title: President & CEO

Alamance County, North Carolina

I certify that the following person personally appeared before me this day, acknowledging to me that he or she signed the foregoing document: Thomas G. Farrell

Date: 1-30-14

Patricia T. Hill
[Official Signature of Notary]

[Official Seal/Stamp]

Patricia T. Hill, Notary Public

My commission expires: 2-7-17

OFFICIAL SEAL
PATRICIA T. HILL
Notary Public • North Carolina
ALAMANCE COUNTY
My Commission Expires

Deed of Trust, Assignment of Leases and Rents, Security Agreement
and Fixture Filing
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EXHIBIT A

LEGAL DESCRIPTION

That certain tract or parcel of land situated, lying and being in Boone Station Township, Alamance County, North Carolina and being more particularly described as follows:

BEGINNING at a new nail in the center line of West Haggard Avenue (North Carolina Highway 100 - public right-of-way), said nail being the northeasterly corner of the FBD LLC property as described in Deed Book 2666, Page 376 of the Alamance County Public Registry, and runs thence from said BEGINNING point with the center line of West Haggard Avenue South 74°49'06" East, a distance of 1,024.40 feet to a new nail at the northwest corner of the Jeffrey W. Hewitt property as described in Deed Book 1394, Page 167 of said Registry; thence with the westerly line of the Hewitt tract, and continuing along the westerly line of the Stewart Wimberley Enterprises property as described in Deed Book 2342, Page 99 of said Registry, the following two (2) courses and distances: (1) South 33°41'42" West, passing an existing iron pipe at 31.68 feet, for a total distance of 439.24 feet to a existing iron pipe; (2) South 04°36'58" West, a distance of 262.28 feet to a new nail set in the center of the Southern Railroad right-of-way, said nail being on the northerly line of the Sonoco Products Co. property as described in Deed Book 387, Page 599 of said Registry; thence with the line of the Sonoco Products Co. property and following the center line of the Southern Railroad right-of-way, the following four (4) courses and distances: (1) North 75°32'58" West, a distance of 243.97 feet to a new nail; (2) North 71°19'32" West, a distance of 200.00 feet to a new nail; (3) North 67°31'08" West, a distance of 200.05 feet to a new nail; (4) North 63°37'42" West, a distance of 200.35 feet to a new nail at the southeasterly corner of the FBD LLC property as described in Deed Book 2666, Page 376 of said Registry, said nail also being on the westerly margin of Rego Drive (public right-of-way); thence with the easterly line of the FBD LLC property, along the westerly margin of Rego Drive, North 06°14'53" East, a distance of 608.36 feet to the POINT OF BEGINNING; Containing 581,535 square feet or 13.350 acres, more or less, as shown on a survey by James Mauney & Associates, P.A. dated August 19, 2010, bearing File No. F692.

Common Address: 100 Rego Drive, Elon, NC 27244

6028560v1

EXHIBIT A

LEGAL DESCRIPTION (continued)

That certain tract or parcel of land situated, lying and being in Boone Station Township, Alamance County, North Carolina and being more particularly described as follows:

BEGINNING at an existing iron pipe at the intersection of the northerly margin of Anthony Road (60' public right-of-way) and the westerly margin of Lear Drive (60' public right-of-way); and runs thence with the northerly margin of Anthony Road South 74°50'56" West, a distance of 610.83 feet to a existing iron pipe the southeast corner of Burlington Alamance Airport property as described in Deed Book 72, Page 145 of the Alamance County Public Registry; thence with the line of Burlington Alamance Airport property North 01°47'07" East, a distance of 560.00 feet to a existing iron pipe being the southwest corner of Acquisitions & Development Group LLC property as described in Deed Book 1830, Page 631 of said Registry; thence with the line of Acquisitions & Development Group LLC property North 74°54'52" East, a distance of 447.71 feet to a existing iron pipe on the westerly margin of Lear Drive (60' public right-of-way); thence with the westerly margin of Lear Drive South 15°08'58" East, a distance of 535.20 feet to the POINT OF BEGINNING. Containing 283,421 square feet or 6.506 acres, more or less as shown on a survey by James Mauney & Associates, P.A. dated August 19, 2010, bearing file No. F640.

Being all of Lot 1 as recorded in Map Book 51, Page 193 of the Alamance County Public Registry.

Common Address: 3181 Lear Drive, Burlington, NC 27215

6028560v1

Appendix C
Historical Source Documents

Scale: Undetermined

Engineered Controls International, Inc.
Elon, North Carolina
Project No. B1116-621-0

Aerial Photograph

1951

GaiaTech

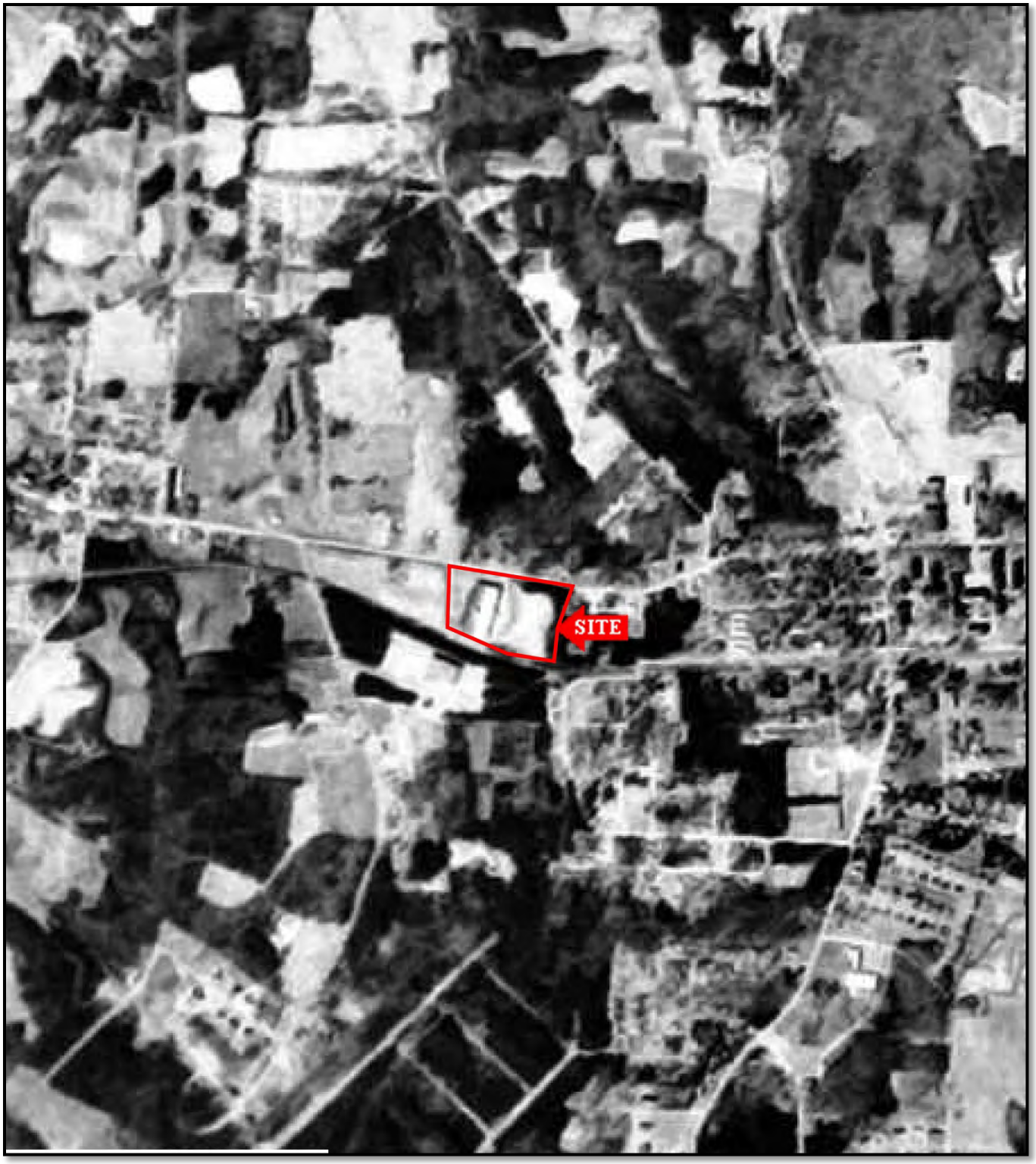
Scale: 1" = 500'

Aerial Photograph

1969

Engineered Controls International, LLC
Elon, North Carolina
Project No. 151531.621.00

GaiaTech



Scale: 1" = 1,000'

Aerial Photograph

1973

Engineered Controls International, LLC
Elon, North Carolina
Project No. 151531.621.00

GaiaTech

Scale: Undetermined

Engineered Controls International, Inc.
Elon, North Carolina
Project No. B1116-621-0

Aerial Photograph

1976

GaiaTech

Scale: 1" = 1,000'

Aerial Photograph

1977

Engineered Controls International, LLC
Elon, North Carolina
Project No. 151531.621.00

GaiaTech

Scale: 1" = 1,000'

Aerial Photograph

1982

Engineered Controls International, LLC
Elon, North Carolina
Project No. 151531.621.00

GaiaTech

Scale: 1" = 833'

Aerial Photograph

1993

Engineered Controls International, LLC
Elon, North Carolina
Project No. 151531.621.00

GaiaTech

Scale: 1” = 604’

Aerial Photograph

2006

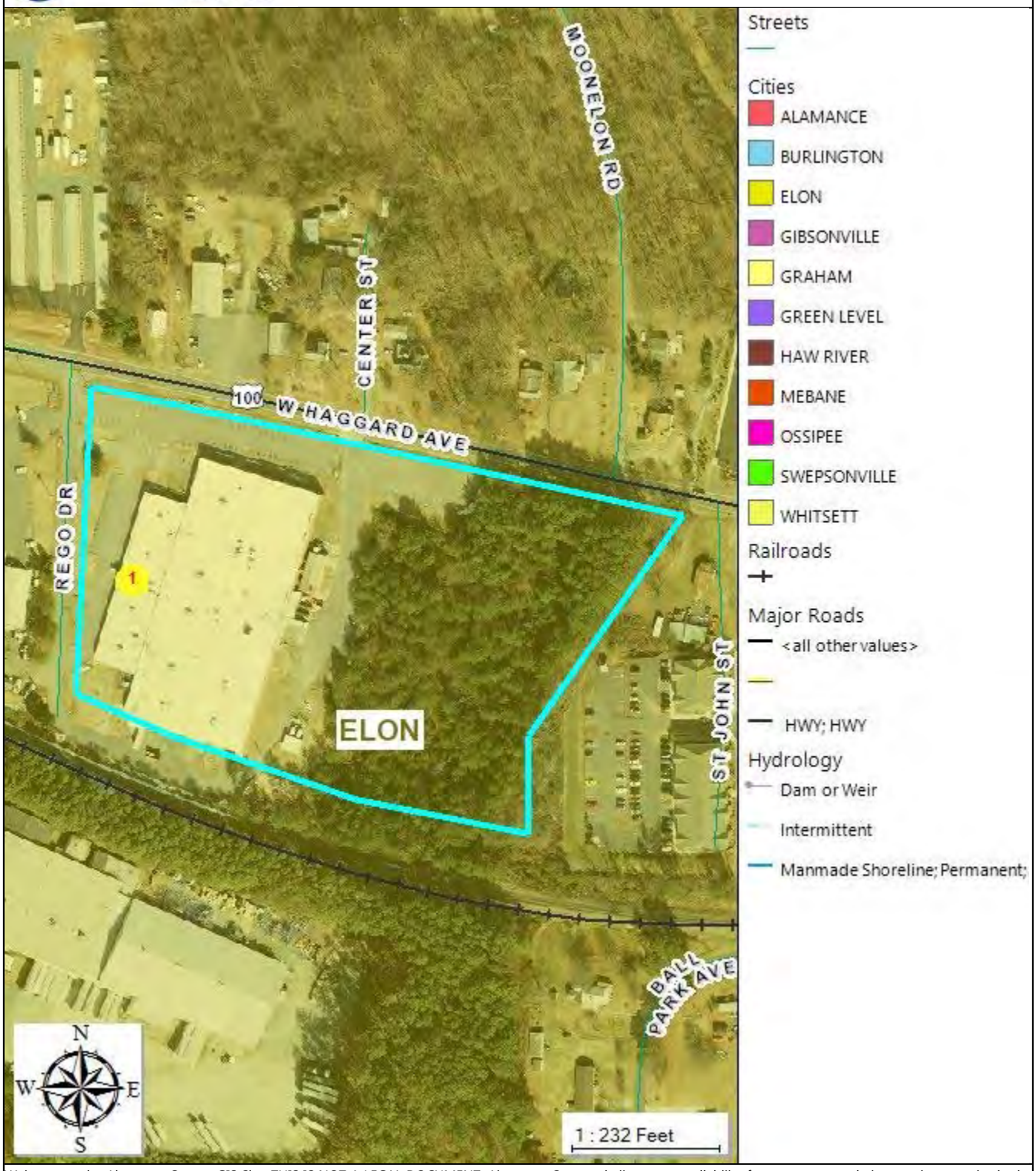
Engineered Controls International, Inc.
Elon, North Carolina
Project No. B1116-621-0

GaiaTech

2010

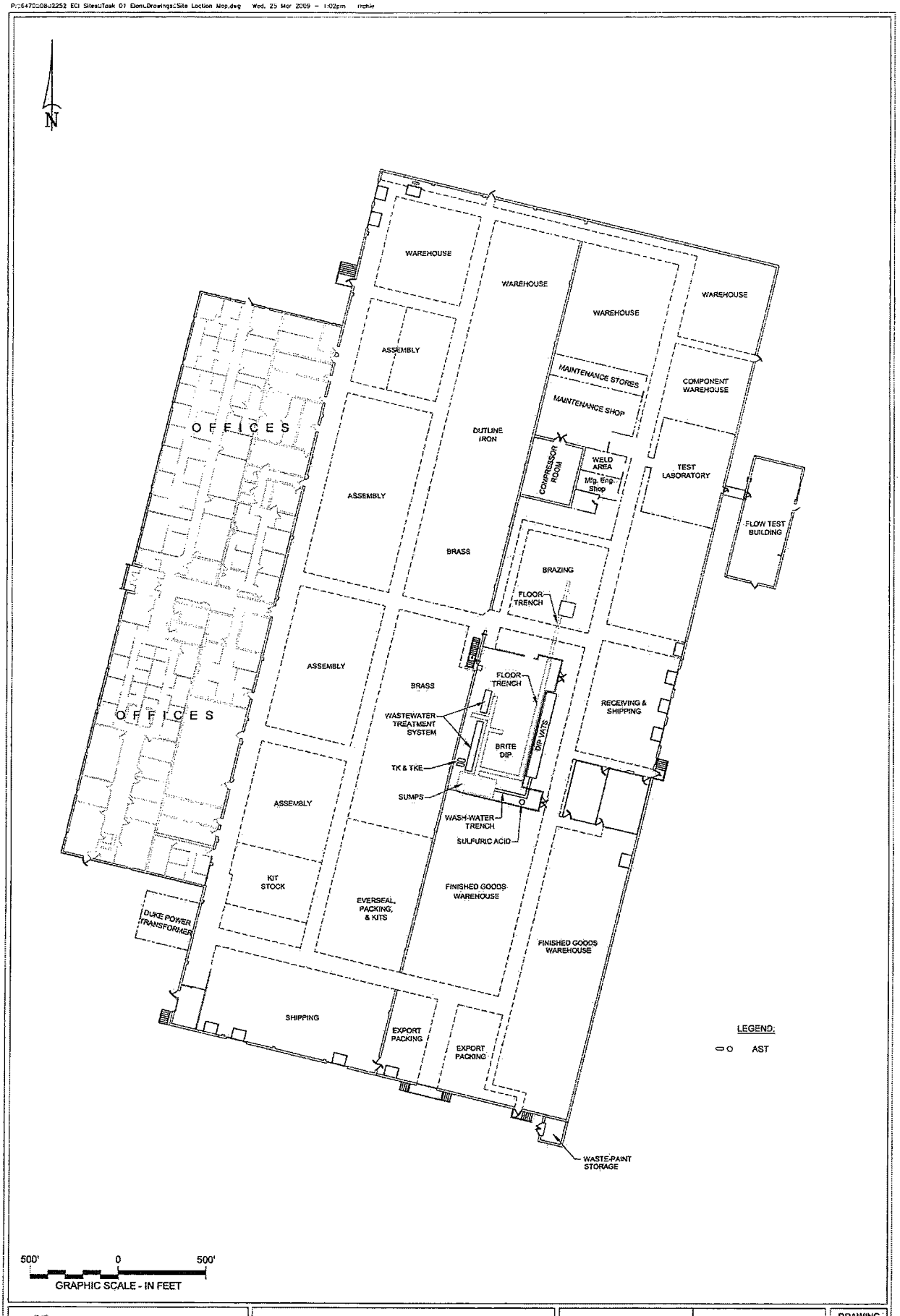
CONNECTGIS WEB HOSTING

AlamanceCounty
Printed April 07, 2014
See Below for Disclaimer



Welcome to the Alamance County GIS Site. THIS IS NOT A LEGAL DOCUMENT. Alamance County shall assume no liability for any errors, omissions, or inaccuracies in the information provided regardless of how caused; or any decisions made or actions taken or not taken by user in reliance upon any information or data furnished hereunder. The user knowingly waives any and all claims for damages against any and all of the entities comprising the ALAMANCE COUNTY GIS SYSTEM that may arise from the mapping data.

P:\6470\08\2252 ECI Sites\Task 01 Elon\Drawings\Site Location Map.dwg Wed, 25 Mar 2009 - 1:02pm rrahie



MACTEC MACTEC ENGINEERING AND CONSULTING, INC. 3301 ATLANTIC AVENUE RALEIGH, NORTH CAROLINA	BUILDING PLAN ENGINEERED CONTROLS INTERNATIONAL ELON, NORTH CAROLINA	DRAWN: R.R.	DATE: MARCH 2009	DRAWING
		ENG CHECK:	SCALE: 1" = 500'	3
		APPROVAL:	JOB: 6470-08-2252.01	

REFERENCE: DRAWING PROVIDED BY ECI; FIELD NOTES.

CHAIN OF OWNERSHIP REPORT COMBO

CLIENT INFORMATION

Client:	Environmental Data Resources	**Report Date:**	10/29/2008
Client No.:	12010	**Index Date:**	10/24/2008
Address:	440 Wheelers Farms Rd Milford, CT 06460	**Order ID:**	810-200-1-7840
		Client Ref.:	2347977.8S
Contact:	Carlo Guerrera	**PO Number:**	Josh Witherspoon
Phone:	800-241-6505		
Delivery:	cguerrera@edrnet.com		

CURRENT OWNER INFORMATION

Current Owner of Record:	Engineered Controls International, Inc.
Current Site Address:	100 REGO DR ELON, NC 27244-9159
County of Research:	ALAMANCE

LEGAL DESCRIPTION

A TRACT OF LAND IN BOONE STATION TOWNSHIP, ALAMANCE COUNTY, NORTH CAROLINA, ADJOINING NORTH CAROLINA HIGHWAY NO. 100, LAURA W. NEWITT, N W, V. HUFFINES, SOUTHERN RAILROAD AND ARLIE L. HUFFINES, AND BEING MORE FULLY DESCRIBED IN VOLUME 561, PAGE 549 IN DEED RECORDS OF ALAMANCE COUNTY, NORTH CAROLINA.

NOTE: Ameristar does not represent that the above legal description, acreage, or square footage calculations are correct. We have taken this information directly from a document recorded at the courthouse.

TAX INFORMATION

PARCEL IDENTIFICATION NUMBER: 8845762289

TAX VALUE INFORMATION		**SPECIAL COMMENTS**
Land Value:	$214,195.00	None
Improvement Value:	$1,960,880.00	
Total Value:	$2,175,075.00	

DISCLAIMER: This report contains information obtained from public records, and being that our company is not the primary provider of such, Ameristar cannot and will not, for the fee charged, be an insurer or guarantor of the accuracy or reliability of said information. Ameristar does not guarantee or warrant the accuracy, timeliness, completeness, currentness, merchantability or fitness for a particular purpose of services provided. Further, Ameristar's sole liability is limited to the cost of this report only. Ameristar is not liable to user for any loss or injury arising out of or caused, in whole or in part, by Ameristar's acts or omissions, whether negligent or otherwise, in procuring, compiling, collecting, interpreting, reporting, communicating, or delivering the services or information contained herein. THIS REPORT IS NOT AN ABSTRACT, OPINION OF TITLE, TITLE COMMITMENT NOR GUARANTEE, OR TITLE INSURANCE POLICY.

AMERISTAR PUBLIC RECORD RESEARCH

DEED / OWNERSHIP INFORMATION

*Search was performed from 01/01/1940 through 10/24/2008.

WARRANTY DEED:

DATED:	04/15/1964		
GRANTOR:	Congregational Christian Home for Children, Inc.		
GRANTEE:	Burling Industrial Development Corp.		
VOLUME:	318	**PAGE:**	136

WARRANTY DEED:

DATED:	02/01/1965		
GRANTOR:	Burlington Industrial Development Corp.		
GRANTEE:	Stanley Irving Batkin, Stanford Lewis Batkin, Trading and doing business as Oak Realty Co.		
VOLUME:	324	**PAGE:**	571

WARRANTY DEED:

DATED:	02/02/1970		
GRANTOR:	Stanley Irving Batkin, Stanford Lewis Batkin, Trading and doing business as Oak Realty Co.		
GRANTEE:	Kardon Industries Inc.		
VOLUME:	370	**PAGE:**	68

WARRANTY DEED:

DATED:	09/18/1980		
GRANTOR:	Kardon Industries, Inc.		
GRANTEE:	Rego Group, Inc.		
VOLUME:	456	**PAGE:**	549

WARRANTY DEED:

DATED:	01/25/1989		
GRANTOR:	Rego Group, Inc.		
GRANTEE:	Rego Company		
VOLUME:	561	**PAGE:**	378

WARRANTY DEED:

DATED:	01/25/1989		
GRANTOR:	Rego Company		
GRANTEE:	Engineered Controls International, Inc.		
VOLUME:	561	**PAGE:**	548

7

STATE OF NORTH CAROLINA — Real Estate Excise Tax — 900.00

STATE OF NORTH CAROLINA — Real Estate Excise Tax — 702.00

Excise Tax 1602.

BOOK 561 PAGE 548

FILED
BOOK 561 PAGE 548
FEB 10 2 07 PM '89
MARIAN P. [illegible]
REGISTER OF DEEDS
ALAMANCE COUNTY, N.C.

Recording Time, Book and Page

Tax Lot No. ..... Parcel Identifier No. .....
Verified by ..... County on the ..... day of 19
by .....

Mail after recording to .....

This instrument was prepared by Leslie S. Browder, Womble Carlyle Sandridge & Rice, Post Office Drawer 84, Winston-Salem, NC 27102

Brief description for the Index

NORTH CAROLINA GENERAL WARRANTY DEED

THIS DEED made this 25th day of January, 19 89, by and between

GRANTOR	GRANTEE
RegO Company, a Delaware Corporation P.O. Box 247 Hwy. 100 at RegO Drive Elon College, NC 27244	Engineered Controls International, Inc., a Delaware Corporation 225 West Washington Street Chicago, Illinois 60606

Enter in appropriate block for each party name, address, and, if appropriate, character of entity, e.g. corporation or partnership.

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that certain lot or parcel of land situated in the City of ..... Boone Station Township, Alamance County, North Carolina and more particularly described as follows:

SEE EXHIBIT "A" ATTACHED HERETO AND INCORPORATED HEREIN BY REFERENCE.

N. C. Bar Assoc. Form No. 3 © 1976, Revised © 1977 — Lawyers Co-Op. Pub. Co. Rochester, N.Y. 14603

EXHIBIT "A"
DESCRIPTION

A tract of land in Boone Station Township, Alamance County, North Carolina, adjoining North Carolina Highway No. 100, Laura W. Hewitt, W. V. Huffines, Southern Railroad and Arlie L. Huffines, and being more particularly described as follows:

BEGINNING at a point in the center of North Carolina Highway No. 100, corner with Laura W. Hewitt (the beginning point being located 943 ft. west of the centerline of Church Street where the Street intersects with the Highway); thence with Hewitt and W. V. Huffines, S. 38° 7' W. 433.18 ft. to an existing iron pin in a hickory (existing iron pin set in this line 31.99 ft. from the center of the highway); thence with Huffines, S. 3° 7' W. 370.83 ft. to a point in the center of the Southern Railroad right of way (iron pin set in this line 45.3 ft. from the point in the center of the right of way); thence with the center of the Southern Railroad right of way the following courses and distances: N. 38° 3' 13" W. 243.77 ft.; N. 72° 23' 18" W. 200 ft. to an existing pin; N. 87° 28' 10" W. 300.03 ft. to an existing pin; and S. 88° 4' 5" W. 200.25 ft. to a point, corner with Arlie L. Huffines; thence with Huffines, N. 3° 4' 33" E. 607.47 ft. to a point in the center of North Carolina Highway No. 100 (iron pins set in this line 29.36 ft., 299.96 ft. and 577.23 ft. from the center of the Railroad right of way); thence with the centerline of the Highway, S. 78° 23' 5" E. 1033.41 feet to the point of BEGINNING, being 13.31 acres, more or less, as the same is shown on a survey of the property of Rego Group prepared by David Thompson, Surveyor, dated July 17, 1989.

SAVE AND EXCEPT the property conveyed by The Rego Group, Inc. to The Town of Elon College, containing .0898 acres, more or less, and recorded in Deed Book 678 at page 598 of the Alamance County Registry.

9

BOOK 561 PAGE 550

The property hereinabove described was acquired by Grantor by instrument recorded in ....

A map showing the above described property is recorded in Plat Book .... page ....

TO HAVE AND TO HOLD the aforesaid lot or parcel of land and all privileges and appurtenances thereto belonging to the Grantee in fee simple.

And the Grantor covenants with the Grantee, that Grantor is seized of the premises in fee simple, has the right to convey the same in fee simple, that title is marketable and free and clear of all encumbrances, and that Grantor will warrant and defend the title against the lawful claims of all persons whomsoever except for the exceptions hereinafter stated.

Title to the property hereinabove described is subject to the following exceptions:

Subject to easements, rights of way and restrictive covenants of record, if any, and 1989 ad valorem taxes.

IN WITNESS WHEREOF, the Grantor has hereunto set his hand and seal, or if corporate, has caused this instrument to be signed in its corporate name by its duly authorized officers and its seal to be hereunto affixed by authority of its Board of Directors, the day and year first above written.

RegO Company ....

By: .... President — VICE

ATTEST: .... Secretary (Corporate Seal)

USE BLACK INK ONLY

.... (SEAL)

.... (SEAL)

.... (SEAL)

.... (SEAL)

SEAL-STAMP

NORTH CAROLINA, ... County.

I, a Notary Public of the County and State aforesaid, certify that .... Grantor, personally appeared before me this day and acknowledged the execution of the foregoing instrument. Witness my hand and official stamp or seal, this .... day of .... 19......

My commission expires: .... Notary Public

SEAL-STAMP

"OFFICIAL SEAL"
CAROL D'ASCENZO
Notary Public, State of Illinois
My Commission Expires Dec. 1, 1992

State of Illinois, Cook County.

I, a Notary Public of the County and State aforesaid, certify that R.W. WEBB personally came before me this day and acknowledged that he is .... Secretary of RegO Company, a Delaware corporation, and that by authority duly given and as the act of the corporation, the foregoing instrument was signed in its name by its VICE President, sealed with its corporate seal and attested by him as its Secretary.

Witness my hand and official stamp or seal, this 3rd day of January, 1989.

My commission expires: 12-1-92 Carol D'Ascenzo Notary Public

The foregoing Certificate(s) of Carol D'Ascenzo, N.P. [illegible]

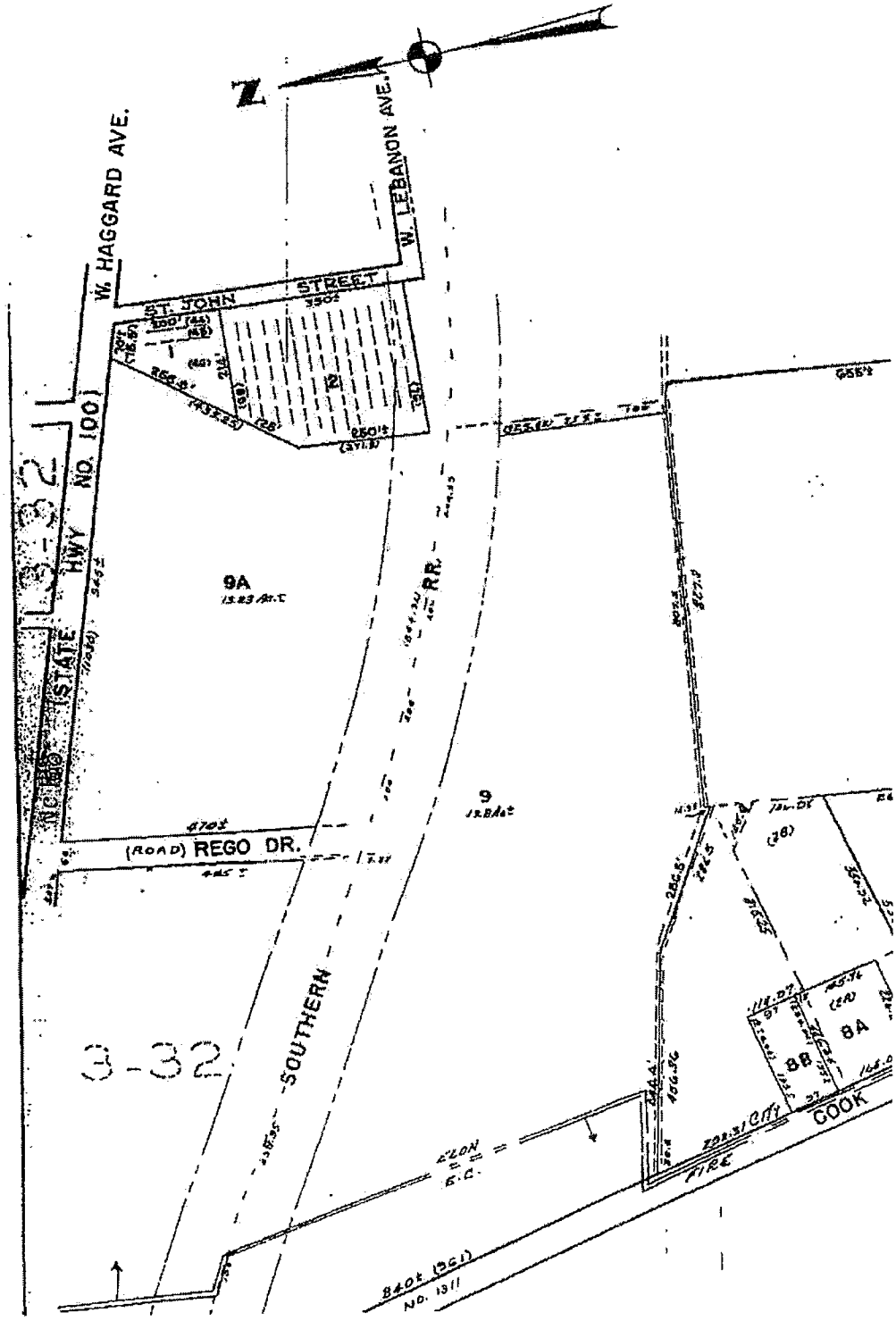
is/are certified to be correct. This instrument and this certificate are duly registered at the date and time and in the Book and Page shown on the first page hereof.

MARIAN H. EITTMAN .... REGISTER OF DEEDS FOR Alamance COUNTY

By [illegible] .... Deputy/Assistant - Register of Deeds

N.C. Bar Assoc. Form No. 3 © 1976, Revised © 1977 [illegible]

PT. IN E.C. FIRE DIST. (CODE 36)
PT. IN ELON CITY LIMITS (CODE 13)



Appendix D
Sensitive Environment Contact Records

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Raleigh ES Field Office
Post Office Box 33726
Raleigh, North Carolina 27636-3726

April 4, 2014

Robert Laumann
ERM NC, Inc.
15720 John J. Delaney Drive, Suite 120
Charlotte, NC 28277

Re: 100 Rego Drive, Elon, NC - Alamance County, NC

Dear Mr. Laumann:

This letter is to inform you that a list of all federally-protected endangered and threatened species with known occurrences in North Carolina is now available on the U.S. Fish and Wildlife Service's (Service) web page at http://www.fws.gov/raleigh. Therefore, if you have projects that occur within the Raleigh Field Office's area of responsibility (see attached county list), you no longer need to contact the Raleigh Field Office for a list of federally-protected species.

Our web page contains a complete and frequently updated list of all endangered and threatened species protected by the provisions of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 et seq.)(Act), and a list of federal species of concern[1] that are known to occur in each county in North Carolina.

Section 7 of the Act requires that all federal agencies (or their designated non-federal representative), in consultation with the Service, insure that any action federally authorized, funded, or carried out by such agencies is not likely to jeopardize the continued existence of any federally-listed endangered or threatened species. A biological assessment or evaluation may be prepared to fulfill that requirement and in determining whether additional consultation with the Service is necessary. In addition to the federally-protected species list, information on the species' life histories and habitats and information on completing a biological assessment or evaluation and can be found on our web page at http://www.fws.gov/raleigh. Please check the web site often for updated information or changes.

---

[1] The term "federal species of concern" refers to those species which the Service believes might be in need of concentrated conservation actions. Federal species of concern receive no legal protection and their designation does not necessarily imply that the species will eventually be proposed for listing as a federally endangered or threatened species. However, we recommend that all practicable measures be taken to avoid or minimize adverse impacts to federal species of concern.

If your project contains suitable habitat for any of the federally-listed species known to be present within the county where your project occurs, the proposed action has the potential to adversely affect those species. As such, we recommend that surveys be conducted to determine the species' presence or absence within the project area. The use of North Carolina Natural Heritage program data should not be substituted for actual field surveys.

If you determine that the proposed action may affect (i.e., likely to adversely affect or not likely to adversely affect) a federally-protected species, you should notify this office with your determination, the results of your surveys, survey methodologies, and an analysis of the effects of the action on listed species, including consideration of direct, indirect, and cumulative effects, before conducting any activities that might affect the species. If you determine that the proposed action will have no effect (i.e., no beneficial or adverse, direct or indirect effect) on federally listed species, then you are not required to contact our office for concurrence (unless an Environmental Impact Statement is prepared). However, you should maintain a complete record of the assessment, including steps leading to your determination of effect, the qualified personnel conducting the assessment, habitat conditions, site photographs, and any other related articles.

With regard to the above-referenced project, we offer the following remarks. Our comments are submitted pursuant to, and in accordance with, provisions of the Endangered Species Act.

Based on the information provided and other information available, it appears that the proposed action is not likely to adversely affect any federally-listed endangered or threatened species, their formally designated critical habitat, or species currently proposed for listing under the Act at these sites. We believe that the requirements of section 7(a)(2) of the Act have been satisfied for your project. Please remember that obligations under section 7 consultation must be reconsidered if: (1) new information reveals impacts of this identified action that may affect listed species or critical habitat in a manner not previously considered; (2) this action is subsequently modified in a manner that was not considered in this review; or, (3) a new species is listed or critical habitat determined that may be affected by the identified action.

However, the Service is concerned about the potential impacts the proposed action might have on aquatic species. Aquatic resources are highly susceptible to sedimentation. Therefore, we recommend that all practicable measures be taken to avoid adverse impacts to aquatic species, including implementing directional boring methods and stringent sediment and erosion control measures. An erosion and sedimentation control plan should be submitted to and approved by the North Carolina Division of Land Resources, Land Quality Section prior to construction. Erosion and sedimentation controls should be installed and maintained between the construction site and any nearby down-gradient surface waters. In addition, we recommend maintaining natural, vegetated buffers on all streams and creeks adjacent to the project site.

The North Carolina Wildlife Resources Commission has developed a Guidance Memorandum (a copy can be found on our website at (http://www.fws.gov/raleigh) to address and mitigate secondary and cumulative impacts to aquatic and terrestrial wildlife resources and water quality. We recommend that you consider this document in the development of your projects and in completing an initiation package for consultation (if necessary).

We hope you find our web page useful and informative and that following the process described above will reduce the time required, and eliminate the need, for general correspondence for species' lists. If you have any questions or comments, please contact John Ellis of this office at (919) 856-4520 ext. 26.

Sincerely,

Pete Benjamin
Field Supervisor

List of Counties in the Service's Raleigh Field Office Area of Responsibility

Alamance
Beaufort
Bertie
Bladen
Brunswick
Camden
Carteret
Caswell
Chatham
Chowan
Columbus
Craven
Cumberland
Currituck
Dare
Duplin
Durham
Edgecombe
Franklin
Gates
Granville
Greene
Guilford
Halifax
Harnett
Hertford
Hoke
Hyde
Johnston
Jones
Lee
Lenoir
Martin
Montgomery
Moore
Nash
New Hanover
Northampton
Onslow
Orange
Pamlico
Pasquotank
Pender
Perquimans
Person
Pitt
Randolph
Richmond
Robeson
Rockingham
Sampson
Scotland
Tyrrell
Vance
Wake
Warren
Washington
Wayne
Wilson

NC Department of Environment and Natural Resources

Natural Heritage Program - NHP Map Viewer

Natural Heritage Program Map Viewer

(Data last updated on January 8, 2014)

Help and Definition (http://portal.ncdenr.org/c/document_library/get_file?uuid=3da6baa6-9263-4e0a-80f5-78d62a3b4741&groupId=61587)

100 Rego Drive, Elon, NC 27244, USA

36.101628 | -79.51693699999998

Search Radius: 2 miles

Search | Clear Fields and Reset Map

Enter an Address

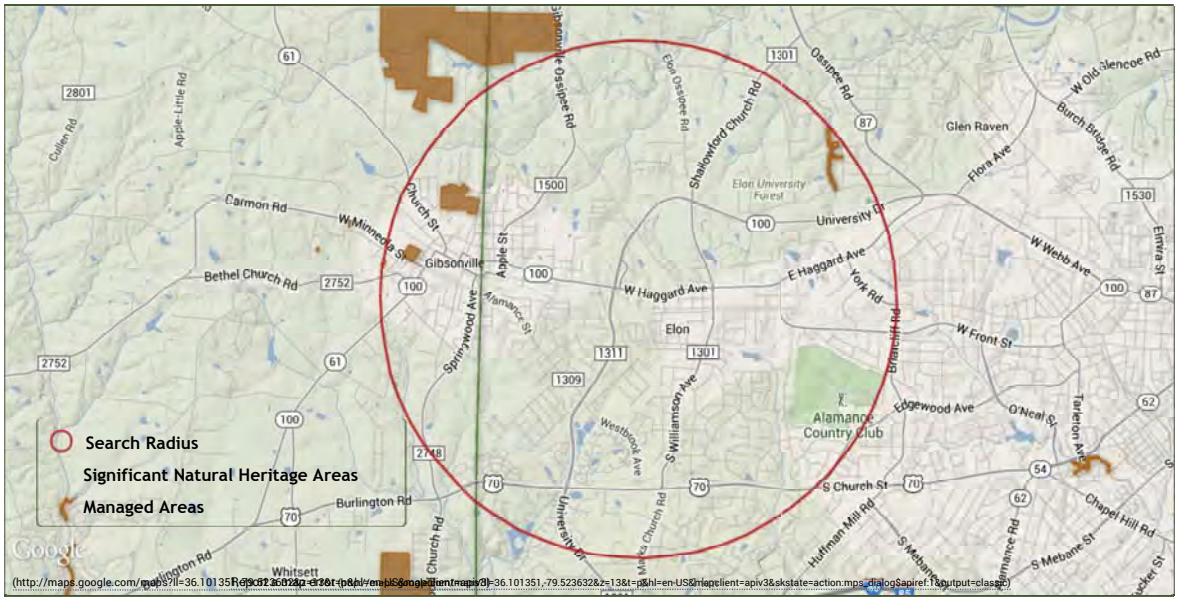
OR

Latitude and Longitude

(decimal degrees)

OR

just click a map location below...



Hide Legend

SHOW RESULTS FOR: Significant Natural Heritage Areas | Managed Areas

Show 10 entries per page

Download Results

Filter search results:

Managed Area Name	Acres	Owner	Owner Type
Guilford County Open Space	0.27	Guilford County: multiple local government	Local Government
Guilford County Open Space	6.3	Guilford County: multiple local government	Local Government
Guilford County Open Space	29.82	Guilford County: multiple local government	Local Government
NC Ecosystem Enhancement Program Easement	1	NC DENR, Ecosystem Enhancement Program	State
NC Ecosystem Enhancement Program Easement	2.09	NC DENR, Ecosystem Enhancement Program	State
NC Ecosystem Enhancement Program Easement	2.64	NC DENR, Ecosystem Enhancement Program	State
NC Ecosystem Enhancement Program Easement	1.92	NC DENR, Ecosystem Enhancement Program	State
NC Ecosystem Enhancement Program Easement	1.17	NC DENR, Ecosystem Enhancement Program	State
NC Ecosystem Enhancement Program Easement	0.64	NC DENR, Ecosystem Enhancement Program	State

Showing 1 to 9 of 9 entries

First Previous 1 Next Last

The Natural Heritage Program Map Viewer provides information on significant natural heritage areas and managed areas occurring within a 1- to 5-mile radius of a user-selected location. Below are brief notes on use of the map viewer. For more information on use of the map viewer or for an explanation of the values returned by the search, see the "Help and Definitions" link above.

- Results are displayed for significant natural heritage areas by default. To display results for managed areas, click the appropriate radio button in the "SHOW RESULTS FOR" section above the results table.
- Clicking on a column name in the results table will sort all entries in that column; clicking a second time on the column name will reverse the sort.
- The results can be further refined by entering a text string in the "Filter search results" field. Entries not containing the text string will be removed from the table of results.
- Clicking the "Download Results' button will give you the option of saving the results table to a comma-separated-values file. This type of file can be opened in most spreadsheet programs, including Microsoft Excel.
- If you have any questions regarding the data contained on the map viewer, contact Natural Heritage Program staff (http://portal.ncdenr.org/web/nhp/contact) . For technical issues regarding the application, contact the Conservation Information Manager

Use of North Carolina Natural Heritage Program data should not be substituted for actual field surveys, particularly if the project area contains suitable habitat for rare species. If a database search lists no records for a project area, it does not necessarily mean that they are not present. The area may not have been surveyed by biologists, or the data may not have been reported to NC Natural Heritage Program.

Information obtained from the North Carolina Natural Heritage Program Map Viewer should be cited as follows: North Carolina Natural Heritage Program Online Map Viewer. [search date]. Department of Environment and Natural Resources, Office of Conservation, Planning, and Community Affairs, Raleigh, NC. Available at: www.ncnhp.org.

(http://portal.ncdenr.org/web/nhp)**North Carolina Natural Heritage Program** • 1601 Mail Service Center • Raleigh, NC 27699-1601

N.C. Department of Environment and Natural Resources
1601 Mail Service Center, Raleigh, NC 27699-1601
Headquarters (Environment and Natural Resources Building): 217 W. Jones St.
Archdale Building: 512 N. Salisbury St.
Toll Free: (877) 623-6748

North Carolina Department of Environment and Natural Resources
Division of Water Quality

Pat McCrory
Governor

Charles Wakild, P. E.
Director

John E. Skvarla, III
Secretary

3/13/2013
Gaia Tech
3525 Piedmont Rd N.E.
Suite 520, Bldg 6
Atlanta, GA 30305

RE: Request for information related to Potential Environmentally Sensitive Areas on or adjacent to 100 Rego Dr. Elon, Alamance County, NC.

To whom it may concern,

In reviewing the information for the property located at 100 Rego Dr. Elon, Alamance County, NC and the surround area, I determined that this area is classified as "Environmentally Sensitive" or "State-Designated Areas for Protection or Maintenance of Aquatic Life".

This property and the surrounding area drains into the Haw River arm of the Jordan Lake watershed. This watershed is designated as Nutrient Sensitive Waters and there is a specific Nutrient Management Strategy for Jordan Lake watershed (see http://www.jordanlake.org).

The Haw River is listed on the NC impaired waters list (2012 IR (303(d)/305(b) report) due to high levels of fecal coliform bacteria. Potions of the Haw River are also impaired due to high turbidity standard violations. The lower portion of the Haw River and Jordan Lake are impaired due to chlorophyll *a* and high pH standard violations as result of excess nutrient loading delivered from the watershed.

It is imperative that any activity taking place at this location eliminate runoff that would further degrade the fragile systems that surrounds this area. There is a need to reduce the stormwater volume, nutrient, sediment and bacteria load from this site. There may be specific development requirements at this location based on the Jordan Lake Nutrient Management Strategies that are now in place.

Please let me know if you have any questions.

1617 Mail Service Center, Raleigh, North Carolina 27699-1617
Location: 512 N. Salisbury St. Raleigh, North Carolina 27604
Phone: 919-807-6300 \ FAX: 919-807-6492
Internet: www.ncwaterquality.org

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One NorthCarolina Naturally

Thank You,
Nora

Nora J. Deamer
DENR-DWQ, Planning Section
Cape Fear River Basin Planner
919-807-6431
nora.deamer@ncdenr.gov

Robert Laumann

From: Luczak, Heather L -FS <hluczak@fs.fed.us>
Sent: Wednesday, March 05, 2014 11:45 AM
To: Robert Laumann
Subject: Sensitive envrionments

Mr. Laumann,
The US Forest Service has no concerns regarding sensitive environments at or adjacent to the following sites:

100 Rego Dr, Elon, NC
1239 Rock Creek Dairy Road, Whitsett, NC

****

Heather Luczak
Assistant Forest Planner
NFs North Carolina
160 Zillicoa St. Ste A
Asheville, NC 28801
Ph: (828)257-4817

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U.S. Fish and Wildlife Service

National Wetlands Inventory

100 Rego Dr, Elon, NC

Mar 3, 2014

Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:

North Carolina Wildlife Resources Commission

Gordon Myers, Executive Director

14 March 2013

W. Lucas
GaiaTech
3525 Piedmont Road N.E.
Suite 520, Bldg. 6
Atlanta, GA. 30305

Subject: Information Request for Rego Drive Site, Elon, Alamance County, North Carolina

Dear W. Lucas:

Biologists with the North Carolina Wildlife Resources Commission have reviewed the subject document and we are familiar with the habitat values of the area. Our comments are provided in accordance with provisions of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661-667e) and North Carolina General Statutes (G.S. 113-131 et seq.).

The site drains to an unnamed tributary to Back Creek in the Cape Fear River basin. A request for information has been made regarding the following environmentally sensitive areas.

- **Migratory Pathways and Feeding Areas Critical for Maintenance of Anadromous Fish Species within River Reaches or Areas in Lakes or Coastal Tide Waters in which such Fish Spend Extended Periods of Time:** We are not aware of any migratory pathways or critical feeding areas for anadromous fish species within or near the site.
- **Spawning Areas Critical for the Maintenance of Fish/Shellfish Species within River, Lake or Coastal Tidal Waters:** The Back Creek watershed supports a Piedmont warmwater fishery. Although we are not aware of any specific reaches of this stream that are critical spawning areas, protecting water quality and aquatic habitat are essential for the continued survival of fish and mussel populations in this watershed.

If we can be of further assistance, please contact our office at (336) 449-7625 or shari.bryant@ncwildlife.org.

Sincerely,

Shari L. Bryant

Shari L. Bryant
Piedmont Region Coordinator
Habitat Conservation Program

Mailing Address: Division of Inland Fisheries • 1721 Mail Service Center • Raleigh, NC 27699-1721
Telephone: (919) 707-0220 • **Fax:** (919) 707-0028

Appendix E
Safety Data Sheets

Material Safety Data Sheet
The Dow Chemical Company

Product Name: Acetone, NF Grade (CDTA Regulated)

Issue Date: 12/19/2012
Print Date: 22 Jan 2013

The Dow Chemical Company encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1. Product and Company Identification

Product Name
Acetone, NF Grade (CDTA Regulated)

COMPANY IDENTIFICATION
The Dow Chemical Company
2030 Willard H. Dow Center
Midland, MI 48674
United States

Customer Information Number: 800-258-2436
SDSQuestion@dow.com

EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact: 989-636-4400
Local Emergency Contact: 989-636-4400

2. Hazards Identification

Emergency Overview
Color: Colorless
Physical State: Liquid.
Odor: Sweet
Hazards of product:

DANGER! Extremely flammable liquid and vapor - Vapor may cause flash fire. Causes eye irritation. May cause central nervous system effects; may cause respiratory tract irritation. Aspiration hazard. Can enter lungs and cause damage. Vapor explosion hazard. Vapors may travel a long distance; ignition and/or flash back may occur. Evacuate area. Keep upwind of spill. Stay out of low areas. Warn public of downwind explosion hazard. Eliminate ignition sources.

OSHA Hazard Communication Standard
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

®(TM)*Trademark

Potential Health Effects

Eye Contact: May cause severe eye irritation. May cause slight corneal injury. Effects may be slow to heal. Vapor may cause eye irritation experienced as mild discomfort and redness.
Skin Contact: Essentially nonirritating to skin. May cause drying and flaking of the skin.
Skin Absorption: Prolonged skin contact is unlikely to result in absorption of harmful amounts.
Inhalation: Brief exposure (minutes) is not likely to cause adverse effects. May cause respiratory irritation and central nervous system depression. Symptoms may include headache, dizziness and drowsiness, progressing to incoordination and unconsciousness. In humans, symptoms may include: Nausea and/or vomiting.
Ingestion: Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.
Aspiration hazard: Aspiration into the lungs may occur during ingestion or vomiting, causing lung damage or even death due to chemical pneumonia.
Effects of Repeated Exposure: Symptoms of excessive exposure may be anesthetic or narcotic effects; dizziness and drowsiness may be observed. In animals, effects have been reported on the following organs: Blood. Kidney. Liver. Development of cataracts has been reported in laboratory animals after prolonged repeated skin exposure to acetone.
Birth Defects/Developmental Effects: Has been toxic to the fetus in laboratory animals at doses toxic to the mother.

3. Composition Information

Component	CAS #	Amount
Acetone	67-64-1	> 99.5 %

4. First-aid measures

Description of first aid measures

General advice: First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Inhalation: Move person to fresh air. If not breathing, give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask, etc). If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.
Skin Contact: Wash skin with plenty of water.
Eye Contact: Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.
Ingestion: Do not induce vomiting. Call a physician and/or transport to emergency facility immediately.

Most important symptoms and effects, both acute and delayed

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), no additional symptoms and effects are anticipated.

Indication of immediate medical attention and special treatment needed

Maintain adequate ventilation and oxygenation of the patient. The decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.
Skin contact may aggravate preexisting dermatitis.

5. Fire Fighting Measures

Suitable extinguishing media

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.
Extinguishing Media to Avoid: Do not use direct water stream. Straight or direct water streams may not be effective to extinguish fire.

Special hazards arising from the substance or mixture

Hazardous Combustion Products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.
Unusual Fire and Explosion Hazards: Container may vent and/or rupture due to fire. When product is stored in closed containers, a flammable atmosphere can develop. Electrically ground and bond all equipment. Flammable mixtures of this product are readily ignited even by static discharge. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Flammable mixtures may exist within the vapor space of containers at room temperature. Flammable concentrations of vapor can accumulate at temperatures above flash point; see Section 9.

Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Stay upwind. Keep out of low areas where gases (fumes) can accumulate. Water may not be effective in extinguishing fire. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Eliminate ignition sources. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.
Special Protective Equipment for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Evacuate area. Only trained and properly protected personnel must be involved in clean-up operations. Refer to Section 7, Handling, for additional precautionary measures. Keep personnel out of low areas. Keep upwind of spill. Ventilate area of leak or spill. No smoking in area. Eliminate all sources of ignition in vicinity of spill or released vapor to avoid fire or explosion. Vapor explosion hazard. Keep out of sewers. For large spills, warn public of downwind explosion hazard. Check area with combustible gas detector before reentering area. Ground and bond all containers and handling equipment. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up: Contain spilled material if possible. Absorb with materials such as: Sand. Dirt. Use non-sparking tools in cleanup operations. Ground and bond all containers and handling equipment. Collect in suitable and properly labeled containers. Pump with explosion-proof equipment. If available, use foam to smother or suppress. See Section 13, Disposal Considerations, for additional information.

7. Handling and Storage

Handling

General Handling: Keep away from heat, sparks and flame. Avoid contact with eyes. Avoid breathing vapor. Do not swallow. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation. Never use air pressure for transferring product. No smoking, open flames or sources of ignition in handling and storage area. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Ignition sources can include and are not limited to pilot lights, flames, smoking, sparks, heaters, electrical equipment, and static discharges. Electrically bond and ground all containers and equipment before transfer or use of material. Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. Use of non-sparking or explosion-proof equipment may be necessary, depending upon the type of operation. Handling operations that can promote accumulation of static charges include but are not limited to mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Storage

Flammable mixtures may exist within the vapor space of containers at room temperature. Minimize sources of ignition, such as static build-up, heat, spark or flame. Keep container tightly closed.

Shelf life:	**Use within**	**Store at ambient temperature.**
	12 Months	

8. Exposure Controls / Personal Protection

Exposure Limits

Component	List	Type	Value
Acetone	ACGIH	TWA	500 ppm BEI
	ACGIH	STEL	750 ppm BEI
	OSHA Table Z-1	PEL	2,400 mg/m3 1,000 ppm

A BEI notation following the exposure guideline refers to a guidance value for assessing biological monitoring results as an indicator of the uptake of a substance from all routes of exposures.

Personal Protection

Eye/Face Protection: Use chemical goggles. If exposure causes eye discomfort, use a full-face respirator.

Skin Protection: Wear clean, body-covering clothing.

Hand protection: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materials include: Chlorinated polyethylene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl alcohol ("PVA"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Respiratory Protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For

emergency conditions, use an approved positive-pressure self-contained breathing apparatus. The following should be effective types of air-purifying respirators: Organic vapor cartridge.
Ingestion: Avoid ingestion of even very small amounts; do not consume or store food or tobacco in the work area; wash hands and face before smoking or eating.

Engineering Controls
Ventilation: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

9. Physical and Chemical Properties

Appearance	
Physical State	Liquid.
Color	Colorless
Odor	Sweet
Odor Threshold	5 ppm *Literature*
pH	Not applicable
Melting Point	Not applicable
Freezing Point	-94.6 °C (-138.3 °F) *Literature*
Boiling Point (760 mmHg)	56 °C (133 °F) *Literature* .
Flash Point - Closed Cup	-20 °C (-4 °F) *Tag Closed Cup ASTM D56*
Evaporation Rate (Butyl Acetate = 1)	6.3 *Literature*
Flammability (solid, gas)	Flammable liquid
Flammable Limits In Air	**Lower**: 2.6 %(V) *Literature* **Upper**: 12.8 %(V) *Literature*
Vapor Pressure	181.7 mmHg @ 20 °C *Literature*
Vapor Density (air = 1)	2 *Literature*
Specific Gravity (H2O = 1)	0.791 - 0.793 20 °C/20 °C *Literature*
Solubility in water (by weight)	completely miscible with water
Partition coefficient, n-octanol/water (log Pow)	-0.24 *Measured*
Autoignition Temperature	465 °C (869 °F) *Literature*
Decomposition Temperature	No test data available
Dynamic Viscosity	0.3 mPa.s @ 25 °C *Literature*
Explosive properties	No test data available
Oxidizing properties	no data available
Molecular Formula	CH3COCH3
Percent Volatiles	*Not reported* No test data available
Henry's Law Constant (H)	1.38E-05 atm*m3/mole; 25 °C Estimated.

10. Stability and Reactivity

Reactivity
No dangerous reaction known under conditions of normal use.

Chemical stability
Thermally stable at typical use temperatures.

Possibility of hazardous reactions
Polymerization will not occur.

Conditions to Avoid: Exposure to elevated temperatures can cause product to decompose. Avoid static discharge.

Incompatible Materials: Avoid contact with: Amines. Ammonia. Chlorine. Halogens. Strong acids. Strong bases. Strong oxidizers. Peroxides.

Hazardous decomposition products
Decomposition products depend upon temperature, air supply and the presence of other materials.

11. Toxicological Information

Acute Toxicity
Ingestion
LD50, rat 5,800 mg/kg
Dermal
LD50, rabbit > 20,000 mg/kg
Inhalation
LC50, 4 h, Vapor, rat 76 mg/l
Eye damage/eye irritation
May cause severe eye irritation. May cause slight corneal injury. Effects may be slow to heal. Vapor may cause eye irritation experienced as mild discomfort and redness.
Skin corrosion/irritation
Essentially nonirritating to skin. May cause drying and flaking of the skin.
Sensitization
Skin
Did not cause allergic skin reactions when tested in guinea pigs.
Respiratory
No relevant data found.
Repeated Dose Toxicity
Symptoms of excessive exposure may be anesthetic or narcotic effects; dizziness and drowsiness may be observed. In animals, effects have been reported on the following organs: Blood. Kidney. Liver. Development of cataracts has been reported in laboratory animals after prolonged repeated skin exposure to acetone.
Chronic Toxicity and Carcinogenicity
No relevant data found.
Developmental Toxicity
Has been toxic to the fetus in laboratory animals at doses toxic to the mother.
Reproductive Toxicity
In animal studies, did not interfere with reproduction.
Genetic Toxicology
In vitro genetic toxicity studies were predominantly negative.

12. Ecological Information

Toxicity

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

Fish Acute & Prolonged Toxicity
LC50, Oncorhynchus mykiss (rainbow trout), 96 h: 5,500 - 6,100 mg/l
Aquatic Invertebrate Acute Toxicity
EC50, Daphnia magna (Water flea), 48 h, immobilization: 6,084 mg/l
LC50, Ceriodaphnia Dubia (water flea), 48 h: 8,098 mg/l
Aquatic Plant Toxicity
EC50, Skeletonema costatum, biomass growth inhibition, 5 d: 11,800 - 14,400 mg/l

Toxicity to Micro-organisms
IC50, OECD 209 Test; activated sludge, 3 h: > 1,000 mg/l

Persistence and Degradability

Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.
OECD Biodegradation Tests:

Biodegradation	Exposure Time	Method	10 Day Window
91 %	28 d	OECD 301B Test	pass

Indirect Photodegradation with OH Radicals

Rate Constant	Atmospheric Half-life	Method
2.04E-13 cm3/s	52 d	Estimated.

Theoretical Oxygen Demand: 2.20 mg/mg

Bioaccumulative potential
Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).
Partition coefficient, n-octanol/water (log Pow): -0.24 Measured
Bioconcentration Factor (BCF): 0.69; Fish; Measured

Mobility in soil
Mobility in soil: Potential for mobility in soil is very high (Koc between 0 and 50).
Partition coefficient, soil organic carbon/water (Koc): 0.37 - 2.0 Estimated.
Henry's Law Constant (H): 1.38E-05 atm*m3/mole; 25 °C Estimated.
Distribution in Environment: Mackay Level 1 Fugacity Model:

Air	Water.	Biota	Soil	Sediment
44.3 %	55.6 %	< 0.1 %	< 0.1 %	< 0.1 %

13. Disposal Considerations

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device.

14. Transport Information

DOT Non-Bulk
Proper Shipping Name: ACETONE
Hazard Class: 3 **ID Number:** UN1090 **Packing Group:** PG II

DOT Bulk
Proper Shipping Name: ACETONE
Hazard Class: 3 **ID Number:** UN1090 **Packing Group:** PG II

IMDG
Proper Shipping Name: ACETONE

Hazard Class: 3 **ID Number:** UN1090 **Packing Group:** PG II
EMS Number: F-E,S-D
Marine pollutant.: No

ICAO/IATA
Proper Shipping Name: ACETONE
Hazard Class: 3 **ID Number:** UN1090 **Packing Group:** PG II
Cargo Packing Instruction: 364
Passenger Packing Instruction: 353
Additional Information

Reportable quantity: 5,000 lb – ACETONE

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. Regulatory Information

OSHA Hazard Communication Standard
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Immediate (Acute) Health Hazard	Yes
Delayed (Chronic) Health Hazard	Yes
Fire Hazard	Yes
Reactive Hazard	No
Sudden Release of Pressure Hazard	No

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313
To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List:
The following product components are cited in the Pennsylvania Hazardous Substance List and/or the Pennsylvania Environmental Substance List, and are present at levels which require reporting.

Component	CAS #	Amount
Acetone	67-64-1	> 99.5 %

Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Special Hazardous Substances List:
To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)
WARNING: This product contains a chemical(s) known to the State of California to cause cancer.

Component	CAS #	Amount
Benzene	71-43-2	<= 0.0005 %

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)
WARNING: This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm.

Component	CAS #	Amount
Methanol	67-56-1	<= 0.0061 %
Benzene	71-43-2	<= 0.0005 %

US. Toxic Substances Control Act
All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

16. Other Information

Hazard Rating System

NFPA	Health	Fire	Reactivity
	2	3	0

Recommended Uses and Restrictions

Identified uses
Solvent. Chemical intermediate.

Revision

Identification Number: 26577 / 1001 / Issue Date 12/19/2012 / Version: 4.0
Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Legend

N/A	Not available
W/W	Weight/Weight
OEL	Occupational Exposure Limit
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
ACGIH	American Conference of Governmental Industrial Hygienists, Inc.
DOW IHG	Dow Industrial Hygiene Guideline
WEEL	Workplace Environmental Exposure Level
HAZ_DES	Hazard Designation
Action Level	A value set by OSHA that is lower than the PEL which will trigger the need for activities such as exposure monitoring and medical surveillance if exceeded.

The Dow Chemical Company urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.

MATERIAL SAFETY DATA SHEET

AMERICAN INDUSTRIES, INC.
Specialty Lubricants & Chemicals Since 1969
WWW.AMERICANINDUSTRIES.COM

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

COMPANY NAME:	AMERICAN INDUSTRIES, INC.	**PRODUCT NAME:**	AI-25
ADDRESS LINE 1:	4300 Kahn Drive, Box 1405	**PRODUCT CODE:**	2261
ADDRESS LINE 2:	Lumberton, NC 28359-1405 USA	**PRODUCT USE:**	Dielectric Solvent Degreaser Cleaner
TELEPHONE NUMBERS:	800-753-5153 (or) 910-738-7224	**MSDS FILE ID:**	2261.08
EMERGENCY PHONE:	**CHEMTREC 1-800-424-9300**	**MSDS ISSUE DATE:**	2013-11-15
		REPLACES MSDS VERSION DATED:	2008-12-11 *and all prior revisions*

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	WEIGHT %
Distillates, petroleum, hydrotreated light	64742-47-8	100

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Caution! Combustible Liquid And Vapor. May Cause Skin Irritation.
APPEARANCE: Clear Liquid.
ODOR: Hydrocarbon-like
ROUTES OF ENTRY: Caution! Combustible Liquid And Vapor. May Cause Skin Irritation.
EYES: Exposure is not expected to cause significant irritation.
INGESTION: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
INHALATION: Danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
SKIN: Prolonged skin contact may cause skin irritation and/or dermatitis.
CARCINOGENICITY: OSHA: None **ACGIH:** None **NTP:** None **IARC**: None **OTHER**: None

SECTION 4: FIRST AID MEASURES

EYES: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
INGESTION: If swallowed, call a poison control center or doctor immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
INHALATION: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician immediately.
SKIN: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. When symptoms persist or in all cases of doubt seek medical advice. Wash contaminated clothing before re-use.

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT: Average 79 °C 174 °F TAG
AUTOIGNITION TEMPERATURE: 231°C 448°F
FLAMMABLE LIMITS IN AIR: (% BY VOLUME) UPPER: 0.6% (V) LOWER: 7.0% (V)
EXTINGUISHING MEDIA: Water spray or fog, foam, dry chemical, CO2.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and protective suit. Further information Keep containers and surroundings cool with water spray.
FIRE AND EXPLOSION HAZARDS: NFPA Class III A combustible liquid.

NFPA:	**HEALTH:** 1	**FLAMMABILITY:** 2	**REACTIVITY**: 0	
HMIS:	**HEALTH:** 1	**FLAMMABILITY:** 2	**REACTIVITY:** 0	**PROTECTION**: B

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, materials for earth, diatomaceous earth, vermiculite) and place in container for disposal according to containment and local / national regulations (see section 13).

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store in ambient temperatures and pressure. Keep away from children.
OTHER PRECAUTIONS: Ensure all equipment is electrically grounded before beginning transfer operations.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES: Air contaminant levels should be controlled below the PEL or TLV for this product (see Exposure Guidelines).
PERSONAL PROTECTIVE EQUIPMENT: Eyes-Wear as appropriate: Goggles, Face-shield **Skin-**Wear suitable protective clothing, gloves and eye/face protection. **Inhalation-**Respiratory protection is normally not required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Use NIOSH approved respiratory protection.
EXPOSURE GUIDELINES: Components Exposure limit(s) -Contains no substances with occupational exposure limit values. The following Sasol internal standard would apply: 100 ppm (525 mg/m3) for 8-hour TWA (Exposure limits for Petroleum Distillate -Stoddard Solvent)
PEL= Permissible Exposure Limits TWA= Time Weighted Average (8 hr.)
TLV= Threshold Limit Value STEL= Short Term Exposure Limit (15 min.)

EL= Excursion Limit WEEL= Workplace Environmental Exposure Level

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear liquid.
ODOR: Hydrocarbon like.
PHYSICAL STATE: Liquid.
VAPOR PRESSURE (mm Hg): .05 mmHg @ 20°C.
VAPOR DENSITY: 5.9
SOLUBILITY IN WATER: Negligible.
DENSITY: 0.810 g/cm3 @ 15.5°C
BOILING POINT: 213 – 232 °C 416 – 449°F range
VISCOSITY: 2.4 cSt @ 20°C
MELTING POINT: <-70°C <-94°F

SECTION 10: STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Keep away from heat and sources of ignition.
INCOMPATIBILITY: Oxidizing agents.
HAZARDOUS DECOMPOSITION OR BY-PRODUCT: Hazardous gases and vapors produced in fire are oxides of carbon.
HAZARDOUS POLYMERIZATION: None.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:
Eyes Primary irritation (rabbit): 3.3 (Maximum score is 110.)
Skin Primary irritation (rabbit): 2.2 (Maximum score is 8.0.)
Acute dermal toxicity LD50 (rabbit): 2,000 -4,000 mg/kg LPA Solvent
Inhalation Acute LC50 > 6.8 mg/l
Ingestion Acute oral toxicity LD50 (rat): > 5,000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Environmental not toxic to aquatic organisms (fish, daphnia, algae) up to water solubility. May adsorb to sediments and possibly cause toxic effects to organisms. Readily biodegradable
OECD Test Guideline 301F (28 d): 85 %

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Any unused product or empty containers may be disposed of as non-hazardous in accordance with state and federal requirements. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification. If the resulting material is determined to be hazardous, please dispose in a
DISPOSAL METHODS: Dispose of only in accordance with local, state, and federal regulations.
EMPTY CONTAINERS: Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.

SECTION 14: TRANSPORT INFORMATION

PROPER SHIPPING NAME: DOT Not regulated. Product does not sustain combustion (49 CFR 173.120(b)(3)).
IATA: Not regulated **IMDG:** Not regulated

SECTION 15: REGULATORY INFORMATION

TSCA STATUS: All chemicals are listed.
CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): None.
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 311/312 HAZARD CATEGORIES: "Fire hazard".
SARA 313 REPORTABLE INGREDIENTS: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
STATE REGULATIONS: CALIFORNIA PROPOSITION 65: None

SECTION 16: OTHER INFORMATION

Important Note: *To be the best of our knowledge, the information contained herein is accurate. However there is no assumption of liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Since the conditions of handling, storage and disposal of this product are beyond the control of the manufacturer/supplier, the manufacturer/supplier will not be responsible for loss, injury, or expense arising out of the products improper use. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this MSDS. The user is responsible for full compliance.*
End of MSDS

MATERIAL SAFETY DATA SHEET

AMERICAN INDUSTRIES, INC.

TEL 910-738-7224 ▪ FAX 910-738-2083 ▪ 4300 KAHN DRIVE ▪ PO BOX 1405 ▪ LUMBERTON, NC 28359-1405

PRODUCT IDENTIFICATION

Product Id: 1639.04
Trade Name: OZENE (A)
Generic Name: Circuit Board Cleaner
Date: April 23, 2008
Emergency #: CHEMTREC 1-800-424-9300

HAZARD RATINGS

Health: 1
Flammability: 1
Reactivity: 0
Other: B

SECTION 1 - HAZARDOUS INGREDIENTS & MAJOR COMPONENTS

Chemical And/Or Common Name:	%	CAS #:	TLV/PEL:	AEL/TWA**:
*3,3-Dichloro-1,1,1,2,2-pentafluoropropane	60-70	422-56-0	N/E	50ppm
*1,3-Dichloro-1,1,2,2,3-pentafluoropropane	01-10	507-55-1	N/E	400ppm
1,1,1,2-Tetrafluoroethane		811-97-2	N/E	1000ppm

* Subject to SARA Title III Section 313 reporting requirements.
**AEL/TWA-Acceptable Exposure Limit (8h-TWA) established by manufacturer

SECTION 2 - PHYSICAL DATA

Boiling Point: Concentrate Only 124° F
Vapor Pressure of can PSIG @ 70°F: 55 (based on total content)
Solubility in Water: Concentrate Only 0.040 WT%@25°C
Total VOC 0%
Vapor Density (air = 1): Concentrate only 7.0@77°F
Appearance and Odor: Clear, colorless liquid, faint ether like odor.

SECTION 3 - FIRE AND EXPLOSION DATA

Flammability as Per USA Flame Projection Test: Non-Flammable Spray
Flash Point (of concentrate only): None (TCC)
Extinguisher Media: Foam, CO_2, Dry Media
Special Firefighting Procedures: Wear self-contained breathing apparatus and protective clothing. Cool fire exposed containers to prevent rupturing.
Unusual Fire or Explosion Hazards Exposure to temperature above 120°F may cause bursting.

SECTION 4 - HEALTH HAZARD INFORMATION (Hazard By Routes Of Exposure)

Primary Routes of Entry & Effect of Overexposure
Eyes: May cause moderate to severe irritation and frostbite
Skin: May cause frostbite and irritation from defatting of skin. May aggravate existing skin conditions.
Inhalation: Inhalation of high concentrations of vapor is harmful & may cause heart irregularities, liver damage, unconsciousness, or death. Intentional misuse can be fatal. Vapors are heavier than air and may accumulate in low lying or confined areas reducing oxygen available for breathing. **Ingestion:** Not likely to occur because of the physical properties of the product. Ingestion of small amounts is not likely to be hazardous. Ingestion of large quantities would likely cause gastrointestinal discomfort from excess pressure created by rapid evaporation and may result in irritation of the upper gastrointestinal tract.
Any of Part 1 Listed As Carcinogens? (NTP, IARC, OSHA): None.

SECTION 5 - EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Immediately move to fresh air. If not breathing, give artificial respiration. Get medical attention.
If Ingested: Ingestion is not likely to occur. If it does, do not induce vomiting. Get medical attention.
Eyes: In case of contact, immediately flush with large amounts of lukewarm water for at least 15 minutes while holding upper and lower lids open. Get medical attention.
Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Treat for frostbite if necessary by gently warming affected area. If irritation persists, get medical attention.
NOTE TO PHYSICIAN: Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, should be used with special caution and only in situations of emergency life support. Treatment of overexposure should be directed at the control of symptoms and the clinical conditions.

SECTION 6 - SPECIAL PROTECTION DATA

Respiratory Protection: None needed for proper use in accordance with label directions.
Eye Protection: Wear chemical resistant safety glasses or splash goggles.
Protective Gloves: Use chemical resistant gloves (neoprene preferred) to help prevent skin contact.
Ventilation Requirements: Provide local exhaust to keep air concentration of Section I ingredients below established exposure limits.

SECTION 7 - REACTIVITY DATA

Stability: Material Stable, however, avoid open flames & exposure to high temperatures.
Hazardous Polymerization: Will not occur.
Incompatibility: Incompatible with alkali or alkaline earth metals-powered Al, Zn, Be, etc.
Hazardous Decomposition Products: Hydrochloric and Hydrofluoric acids, carbonyl halides, carbon dioxide, carbon monoxide

SECTION 8 - SPILL OR LEAK PROCEDURES

Steps To Be Taken if Material is Spilled or Released: Allow propellant to evaporate. Maintain local exhaust and adequate ventilation. No smoking. Keep sparks, heat sources and open flame far away from spill or leak. Cover with absorbent material and sweep up. Wash area to prevent slipping. Dispose of soaked absorbent material in accordance with Federal, State and local laws.
Waste Disposal Method: Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard and should be recycled. Consult federal, state, and local authorities for approved procedure.

SECTION 9 - SPECIAL PRECAUTIONS

Special Precautions For Handling & Storage: Do not puncture or incinerate containers. Do not store at temperatures above 120°F. Store in a cool dry area away from heat or open flame.
Other Precautions: Keep out of reach of children. For industrial and institutional use only.

The information contained herein is based on the data available to us and is believed to be correct. However, Ai makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. Ai assumes no responsibility for injury from the use of the products described herein.

MATERIAL SAFETY DATA SHEET

AMERICAN INDUSTRIES, INC.

TEL 910-738-7224 ▪ FAX 910-738-2083 ▪ 4300 KAHN DRIVE ▪ PO BOX 1405 ▪ LUMBERTON, NC 28359-1405 ▪ info@americanindustries.com

PRODUCT IDENTIFICATION

Product Id: 2254.06
Trade Name: RAPID SOLV (A)
Generic Name: Degreaser/Cleaner Solvent
Date: January 26, 2010
Emergency #: CHEMTREC 1-800-424-9300

HAZARD RATINGS

Health: 2
Flammability: 0
Reactivity: 0

SECTION 1 - HAZARDOUS INGREDIENTS & MAJOR COMPONENTS

Chemical And/Or Common Name:	%:	CAS #:	TLV:	PEL:
*Methylene Chloride	60-100%	75-09-2	500 ppm	25 ppm
*Perchloroethylene	15-40%	127-18-4	50 ppm	100 ppm
Carbon Dioxide		124-38-9	5000 ppm	5000 ppm

*Subject to Sara Title III Section 313 reporting requirements

SECTION 2 - PHYSICAL DATA

Boiling Point: Not Established
Vapor Pressure (Propellant): N/A
Solubility in Water: Insoluble
Specific Gravity (H_2O = 1): 1.37-1.41 g/ml
Evaporation Rate (BuAc=1): >1.00
Appearance And Odor: Water white clear liquid with a sweet solvent odor

SECTION 3 - FIRE AND EXPLOSION DATA

Flammability (Per Flame Projection): Non-flammable
Flammable Limits In Air % by Volume: Lower: N/A Upper: N/A
Unusual Fire Or Explosion Hazards: Contents under pressure. Do not expose to temperatures exceeding 120°F, as containers may vent, rupture or burst.
Extinguisher Media: Foam, dry chemical, CO2.
Special Firefighting Procedures: Keep containers cool using water spray. Use proper equipment to protect personnel from bursting containers.

SECTION 4 - HEALTH HAZARD INFORMATION (Hazard By Routes Of Exposure)

Routes Of Entry: Inhalation: Yes Skin: Yes Ingestion: Unlikely
Signs & Symptoms Of Exposure (Acute & Chronic): May cause transient irritation in eyes. Inhalation may cause irritation of throat and headache. Swallowing may cause abdominal pain, malaise, central nervous system effect. High concentrations: skin, nasal and respiratory irritation may occur.
Medical Conditions Which May Be Aggravated: Cardiac effects including elevation of carboxyhemaglobin, central nervous system effects and liver effects.
Any Of Part 1 Listed As Carcinogens? (NTP, IARC, OSHA): NTP: Yes, IARC: Yes, OSHA: No.

SECTION 5 - EMERGENCY AND FIRST AID PROCEDURES

Ingestion: Do not induce vomiting. Get medical attention immediately.
Inhalation: Remove victim to fresh air. Apply artificial respiration if necessary. Get medical attention.
Eye Contact: Flush eyes with water for at least 15 minutes. Get medical attention If irritation persists.
Skin: Wash affected areas with soap and water. Get medical attention if irritation persists.

SECTION 6 - SPECIAL PROTECTION DATA

Respiratory Protection: Air supplied respirator should be used in confined areas.
Eye Protection: None required for normal use.
Protective Gloves: None required for normal use.
Ventilation Requirements: Local exhaust. Maintain adequate ventilation.
Other Protective Equipment: Wash hands after use.

SECTION 7 - REACTIVITY DATA

Is Material Stable? Yes.
Will Hazardous Polymerization Occur? No.
Conditions To Avoid: Open flames, temperatures greater than 120°F.
Incompatibility: Strong oxidizers, strong caustics.
Hazardous Decomposition Products: CO, CO_2, HCL, trace amounts of chlorine.

SECTION 8 - SPILL OR LEAK PROCEDURES

Steps To Be Taken If Material Is Spilled Or Released: Soak up spilled liquid with absorbent material. Place in closed drum for proper disposal.
Waste Disposal Method: Dispose of in accordance with local, state and federal regulations. Wrap container in newspaper and place in trash.

SECTION 9 - SPECIAL PRECAUTIONS

Special Precautions For Handling & Storage: Do not store at temperatures above 120°F. Do not puncture or incinerate containers. Keep out of reach of children. Do not spray towards face. Store in accordance with NFPA30B for Level 1 aerosols.
Other Precautions: Read label precautions carefully. Follow label directions to avoid injury.

The information contained herein is based on the data available to us and is believed to be correct. However, Ai makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. Ai assumes no responsibility for injury from the use of the products described herein.

MATERIAL SAFETY DATA SHEET

AMERICAN INDUSTRIES, INC.

TEL 910-738-7224 ▪ FAX 910-738-2083 ▪ 4300 KAHN DRIVE ▪ PO BOX 1405 ▪ LUMBERTON, NC 28359-1405

SECTION 1-PRODUCT & COMPANY IDENTIFICATION

Product Id:	1640.06d
Trade Name:	SPX-50
Generic Name:	Clear Gel Lubricant
Date:	May 25, 2012
Emergency #:	CHEMTREC 1-800-424-9300

HAZARD RATINGS

Health:	2
Flammability:	3
Reactivity:	1
Other:	B

SECTION 2 - HAZARDOUS INGREDIENTS INFORMATION

Chemical And/Or Common Name:	**CAS #:**	**TLV / PEL:**
Isoparaffinic Hydrocarbon	64741-66-8	400 ppm
Acetone	67-64-1	750 ppm
Liquified Petroleum Gas	68476-85-7	1000 ppm

SECTION 3 - PHYSICAL DATA

Vapor Pressure (psig @ 70°F) (Total Can Contents):	50
Data Below Based On Aerosol Concentrate Only:	
Boiling Point:	125°F
Vapor Density (air = 1):	>1
Specific Gravity (H2O = 1) @ 75°F:	0.780
Solubility In Water:	Moderate
Appearance and Odor:	Clear liquid with solvent odor.

SECTION 4 - FIRE FIGHTING MEASURES

Flash Point (of concentrate only): <10°F (T.O.C.)
Flammability (as per USA Flame Projection Test): Extremely flammable spray.
Extinguishing Media: Foam, CO2, Dry Media.
Special Firefighting Procedures: Wear self-contained breathing apparatus and protective clothing. Cool fire exposed containers to prevent rupturing.
Unusual Fire or Explosion Hazards: Exposure to temperature above 120°F may cause bursting.

SECTION 5 - HEALTH HAZARD INFORMATION (Hazard By Routes Of Exposure)

Route(s) of Entry & Effects of Overexposure: **Eyes:** May cause irritation, pain redness or burning. **Skin:** Frequent or prolonged contact may cause irritation. **Inhalation:** Inhalation of mist can cause irritation of nasal and respiratory passages. Abusive or excessive inhalation may cause irritation to the upper respiratory tract, dizziness, nausea and other central nervous system effects. **Ingestion:** Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis. Minimal toxicity.
Any of Part 1 Listed As Carcinogens? (NTP, IARC, OSHA): None.

SECTION 6 - EMERGENCY AND FIRST AID PROCEDURES

Skin: Wash with soap and water. If irritation persists seek medical attention.
Eyes: Flush with large amounts of cool running water for at least 15 minutes while holding upper and lower lids open. If irritation persists get medical attention immediately.
Inhalation: Remove to fresh air. Seek medical attention immediately. If breathing stops give artificial respiration.
Ingestion: Do not induce vomiting. Seek medical attention immediately.

SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND USE

Respiratory Protection: None needed for proper use in accordance with label directions.
Eye Protection: If it is anticipated that a splash or spray back will occur, wear safety glasses or chemical proof goggles.
Protective Gloves: None needed for proper use in accordance with label directions. Use chemical resistant gloves if hand contact will be made.
Ventilation Requirements: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limits.

SECTION 8 - REACTIVITY DATA

Stability: Material stable.
Incompatibility: Avoid contact with strong oxidizing agents.
Hazardous Decomposition Products: Carbon Dioxide, Carbon Monoxide
Hazardous Polymerization: Will not occur.

SECTION 9 - SPILL OR LEAK PROCEDURES

Steps To Be Taken If Material Is Spilled Or Released: Allow propellant to evaporate. Maintain local exhaust and adequate ventilation. No smoking. Keep sparks, heat sources and open flame far away from spill or leak. Cover with absorbent material and sweep up. Wash area to prevent slipping. Dispose of soaked absorbent material in accordance with Federal, State and Local regulations.
Waste Disposal Method: Aerosol cans when emptied and depressurized through normal use, pose no disposal hazard and should be recycled. Consult Federal, State, and Local authorities for approved procedures.

SECTION 10-REGULATORY INFORMATION

TSCA: All components are listed.
SARA TITLE III Section 313: None Listed

SECTION 11 - SPECIAL PRECAUTIONS

Special Precautions For Handling & Storage: Store in a cool, dry area away from heat or open flame. Do not store at temperatures above 120°F.
Other Precautions: Keep out of reach of children. For industrial and institutional use only.

The information contained herein is based on the data available to us and is believed to be correct. However, Ai makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. Ai assumes no responsibility for injury from the use of the products described herein.

Appendix F
Environmental Permits

City of Burlington
Control Authority and/or Municipality

PERMIT

Industrial User Pretreatment Permit (IUP)
To Discharge Wastewater Under the
Industrial Pretreatment Program

0019	433.17
IUP Number	40 CFR Category(if Applicable)

In compliance with the provisions of North Carolina General Statute 143-215.1, any applicable federal categorical pretreatment regulations, all other lawful standards and regulations promulgated and adopted by the North Carolina Environmental Management Commission, and the Control Authority and/or Municipality Sewer Use Ordinance. The following Industry, hereafter referred to by name or as the permittee:

Industry name, permittee: Engineered Controls International, LLC
Facility Located at Street Address 100 Rego Drive
City Elon
State, Zip North Carolina 27244

is hereby authorized to discharge wastewater from the facility located at the above listed address into the sanitary sewer collection system and the wastewater treatment facility of the Control Authority and/or Municipality listed below:

IUP Control Authority and/or Municipality WWTP name: East Burlington Wastewater Treatment Plant
NPDES Number: NC0023868
WWTP Address: Quarry Road
City, State, Zip Haw River, North Carolina 27217

in accordance with effluent limitations, monitoring requirements, and all other conditions set forth in Parts I, II, and III of this Industrial User Pretreatment Permit (IUP).

Effective date, this permit and the authorization to discharge shall become effective at midnight on this date:. January 1, 2012
Expiration date, this permit and the authorization to discharge shall expire at midnight on this date: December 31, 2016

Robert C Patterson 09/22/2011 — Water Resources Director

Water Resources Director/Date — Title

IUP, PART I, OUTLINE:

A.) IUP Basic Information
B.) IUP Modification History
C.) Authorization Statement
D.) Description of Discharges
E.) Schematic and Monitoring Locations
F.) Effluent Limits & Monitoring Requirements
G.) Definitions and Limit Page(s) notes

A. IUP Basic Information:

Receiving Control Authority & WWTP name : East Burlington Wastewater Treatment Plant	POTW NPDES # : NC0023868
IUP Name : Engineered Controls International, LLC	IUP Number : 0019
IUP Effective date : January 1, 2012	Pipe Numbers, list all regulated pipes: 01
IUP Expiration date : December 31, 2016	IUP 40 CFR # (if applicable), or N/A: 40-433

B. IUP History.

Effective Date	New/Renewal or Modification	Description of changes over previous IUP.
1/1/1997	Renewal	New Permit issued, former permit expired June 30, 1996.
9/30/1997	Modification	Ph limit changed to 5 to 10 units.
4/1/2000	Modification	Categorical status changed from 413 to 433.
1/01/2002	Renewal	New Permit issued, former permit expired December 31, 2001 and POTW will sample within the Second Quarter and Fourth Quarter of the calendar year.

Continued: IUP History

2/1/2002	Modification	Abbreviated Bioassay for toxicity monitoring no longer a permit requirement.
5/15/2002	Modification	Monitoring for Aqueous CTAS and Surfactants as MBAS no longer a permit requirement due to low effluent process flow.
11/01/2002	Modification	Ph limit changed to 5 to 11 units.
1/01/2007	Renewal	New Industrial User Permit issued, former permit expired December 31, 2006. Monthly averages for concentration limits have been instituted and four day average concentration limits have been eliminated.
1/1/2012	Renewal/ Modification	New Industrial User Permit issued, former permit expired December 31, 2011. Monthly averages for concentration limits have been eliminated.

C.) Authorization Statement:

1.) The Permittee is hereby authorized to discharge wastewater in accordance with the effluent limitations, monitoring requirements, and all other conditions set forth in this Industrial User Pretreatment Permit (IUP) into the sewer collection system and wastewater treatment facility of the Control Authority and/or Municipality.

2.) The Permittee is hereby authorized to continue operation of and discharge wastewater from the following treatment or pretreatment facilities. These facilities must correspond to the treatment units listed on both the application and inspection forms.

IU Treatment Units	
List all Treatment Units:	Descriptions:
Chemical precipitation	The unit consists of chemical precipitation, flocculation, contact clarification, pH control and chromium precipitation.

3.) The Permittee is hereby authorized to, if required by the Control Authority and/or Municipality and after receiving Authorization to Construct (A to C) from the Control Authority and/or Municipality, construct and operate additional pretreatment units as needed to meet final effluent limitations.

D.) Description of IUP Discharge(s):

1. Describe the discharge(s) from all regulated pipes.

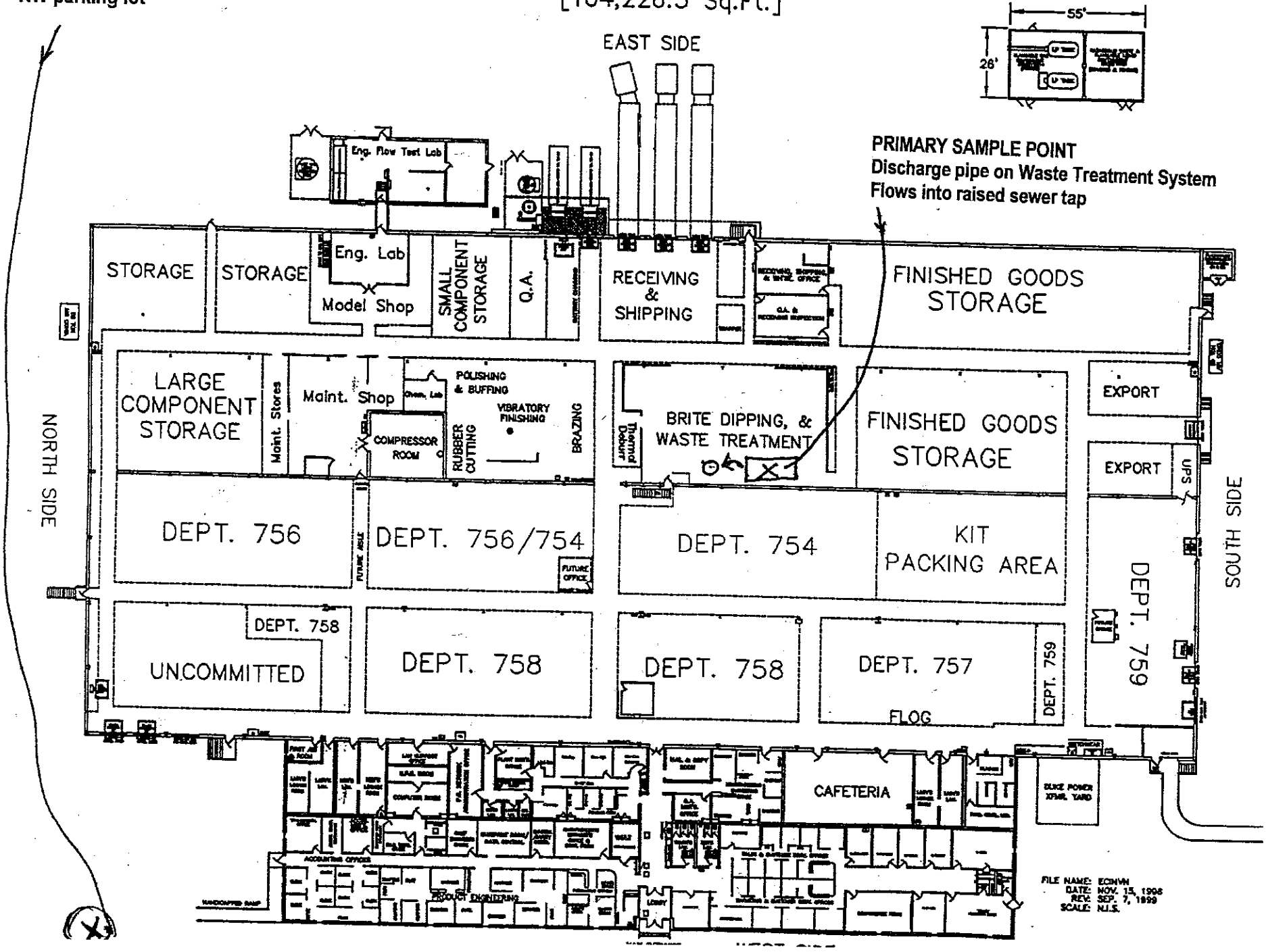
Pipe # 001 , Description of Discharge:
Wastewater generated from metal finishing operations of component parts, assembly, testing, packing and shipping of commercial LP gas and compressed gas valves, regulators and flow control valves.

E.) Schematic and Monitoring Locations:

The facility schematic and description of monitoring location(s) given below must show enough detail such that someone unfamiliar with the facility could readily find and identify the monitoring location(s) and connection to the sewer. Include and identify all regulated pipes.

ENGINEERED CONTROLS INT., LLC
100 REGO DR. ELON, NC 27244

[104,226.3 Sq.Ft.]



IUP, Part 1 Section F:

Effluent Limits and Monitoring Requirements

The Permittee may discharge from this specific Pipe number according to these specific dates, effluent limits, and monitoring requirements

Receiving POTW name =>	East Burlington WWTP	IU name =>	Engineered Controls International, LLC
Receiving POTW NPDES # =>	NC0023868	IUP # =>	**0019**
Effective date for these Limits =>	January 01, 2012	Pipe # =>	**01**
Expiration date for these Limits =>	December 31, 2016	40 CFR # =>	**433.17**
			if not applicable put N/A

THE LIMITS ON THIS PAGE ARE, (Check one below):

LIMITS for ENTIRE permit period =>	X
INTERIM Limits for period # 1 =>	
INTERIM Limits for period # 2 =>	
FINAL Limits Page =>	

		Concentration Limits			Mass Limits			Monitoring Frequency			
		Daily Max	Monthly Average	Units	Daily Max	Monthly Average	Units	By Industry	By POTW	Sample Collection Method (C or G)	Required Laboratory Detection Level
1	Flow	0.012		MGD							
2	BOD			Mg/l	See Note			Semi-annually	Semi-annually	C	2
3	TSS				See Note			Semi-annually	Semi-annually	C	2
4	Temperature	50		Degree C				Semi-annually	Semi-annually	G	
5	PH	5-11		Standard Units				Semi-annually	Semi-annually	G	
OTHER PARAMETERS; Please List Alphabetically											
6	Cadmium	0.07						Semi-annually	Semi-annually	C	0.002 mg/l
7	Chromium	1.71						Semi-annually	Semi-annually	C	0.005 mg/l
8	Copper	2.07						Semi-annually	Semi-annually	C	0.002 mg/l
9	Cyanide Total	0.65						Semi-annually	Semi-annually	G	0.01 mg/l
10	Lead	0.43						Semi-annually	Semi-annually	C	0.01 mg/l
11	Nickel	2.38						Semi-annually	Semi-annually	C	0.01 mg/l
12	Silver	0.24						Semi-annually	Semi-annually	C	0.01 mg/l
13	Zinc	1.48						Semi-annually	Semi-annually	C	0.01 mg/l
14	Oil & Grease	26						Semi-annually	Semi-annually	G	5.0 mg/l
15	TTO "OR"	2.13						Semi-annually			
16	Total Toxic Organics Certification**	See Note									

NOTE: The BOD and the TSS are to be surcharged if levels exceed 300 mg/l and 150 mg/l respectively. This permit may be reopened to include BOD limits when the POTW influent exceeds 75 percent of its design capacity. This will be determined by an updated POTW headwork's analysis. Monitoring frequency by industry should be completed within the first Quarter and third Quarter of the calendar year. Industry will sample a minimum of two (2) Consecutive days within

the same month for parameters having a daily maximum limit. These samples must be analyzed as described in Part I Specific Conditions #6. The BOD and TSS monitoring is due once every six (6) months and should be collected during the first and third quarter of the calendar year. The POTW will monitor one (1) day within the second Quarter and one (1) day within the fourth Quarter of the calendar year. Other parameters and limits are also subject to change as a result of updated headwork's information.

All effluent entering the City of Burlington sewers at each discharge point shall meet the following restrictions:

1. Quarters run as follows: 1st –January 1-March 31: 2nd –April 1-June 30: 3rd-July 1-September 30: 4th –October 1-December 31.
2. Effluent limitations and monitoring requirements may be changed at any time during the permit period as deemed necessary by the City of Burlington.
3. The Industrial User shall monitor all results from an approved commercial lab.
4. Test procedures shall be in accordance with the EPA guidelines for specified parameters.
5. The City of Burlington may require approved sampling devices be installed at permittee's expense.

G.) Definitions and Limit Page(s) notes:

In addition to the definitions in the City of Burlington Sewer Use Ordinance the following definitions and requirements apply:

1. Composite Sample:

A composite sample for the monitoring requirements of this IUP, is defined as the automatic or manual collection of one grab sample of constant volume, not less than 100 ml, collected every hour during the entire discharge period on the sampling day. Sampling day shall be a typical production, and discharge day.

2. Daily Monitoring Frequency

Daily Monitoring Frequency as specified in this IUP shall mean each day of discharge.

3. Grab Sample

Grab sample for the monitoring requirements of this IUP, is defined as a single "dip and take" sample collected at a representative point in the discharge stream.

4. Instantaneous measurement

An Instantaneous measurement for the monitoring requirements of this IUP is defined as a single reading, observation, or measurement.

Industrial User Pretreatment Permit (IUP)

PART II

General Conditions

Outline of PART II,

1. Representative Sampling
2. Reporting
3. Test Procedures
4. Additional Monitoring by Permittee
5. Duty to comply
6. Duty to Mitigate
7. Facilities Operation, Bypass
8. Removed substances
9. Upset Conditions
10. Right of Entry
11. Availability of Records
12. Duty to provide information
13. Signatory Requirements
14. Toxic Pollutants
15. Civil and Criminal Liability
16. Federal and/or State Laws
17. Penalties
18. Need to Halt or Reduce
19. Transferability
20. Property Rights
21. Severability
22. Modification, Revocation, Termination
23. Reapplication
24. Dilution Prohibition
25. Reports of Changed Conditions
26. Construction of pretreatment facilities
27. Reopener
28. Categorical Reopener
29. General Prohibitive Standards
30. Reports of Potential Problems

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring points specified in this permit and, unless otherwise specified, before the effluent joins or is diluted by any other wastestream, body of water, or substance. Monitoring points shall not be changed without notification to, and approval by, the permit issuing authority.

2. Reporting

a.) Monitoring results obtained by the permittee shall be reported on forms specified by the Control Authority and/or Municipality, postmarked no later than the twentieth day of the month following the month in which the samples were taken. If no discharge occurs during a reporting period (herein defined as each calendar month) in which a sampling event was to have occurred, a form with the phrase "no discharge" shall be submitted. Copies of these and all other reports required herein shall be submitted to the Control Authority and/or Municipality and shall be sent to the following address:

Robert C. Patterson, Jr., P.E.
Water Resources director
City of Burlington
PO Box 1358
Burlington, NC 27216-1358

b.) If the sampling performed by the permittee indicates a violation, the permittee shall notify the Control Authority and/or Municipality within 24 hours of becoming aware of the violation. The permittee shall also repeat the sampling and analysis and submit the results of the repeat analysis to the Control Authority and/or Municipality within 30 days after becoming aware of the violation.

3. Test Procedures

Test procedures for the analysis of pollutants shall be performed in accordance with the techniques prescribed in 40 CFR part 136 and amendments thereto unless specified otherwise in the monitoring conditions of this permit.

4. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be submitted to the Control Authority and/or Municipality. The Control Authority and/or Municipality may require more frequent monitoring or the monitoring of other pollutants not required in this permit by written notification.

5. Duty to Comply

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Control Authority and/or Municipality Sewer Use Ordinance and is grounds for possible enforcement action.

6. Duty to Mitigate - Prevention of Adverse Impact

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit, which has a reasonable likelihood of adversely affecting human health, the POTW, the waters receiving the POTW's discharge, or the environment.

7. Facilities Operation, Bypass

The permittee shall at all times maintain in good working order and operate as efficiently as possible, all control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Bypass of treatment facilities is prohibited except when approved in advance by the Control Authority and/or Municipality. Bypass approval shall be given only when such bypass is in compliance with 40 CFR 403.17.

8. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutants from such materials from entering the sewer system. The permittee is responsible for assuring its compliance with any requirements regarding the generation, treatment, storage, and/or disposal of "Hazardous waste" as defined under the Federal Resource Conservation and Recovery Act.

9. Upset Conditions

An "upset" means an exceptional incident in which there is an unintentional and temporary noncompliance with the effluent limitations of this permit because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed or inadequate treatment facilities, lack of preventative maintenance, or careless or improper operations.

An upset may constitute an affirmative defense for action brought for the noncompliance. The permittee has the burden of proof to provide evidence and demonstrate that none of the factors specifically listed above were responsible for the noncompliance.

10. Right of Entry

The permittee shall allow the staff of the State of North Carolina Department of Environment and Natural Resources, Division of Water Quality, the Regional Administrator of the Environmental Protection Agency, the Control Authority and/or Municipality, and/or their authorized representatives, upon the presentation of credentials:

1. To enter upon the permittee's premises where a real or potential discharge is located or in which records are required to be kept under the terms and conditions of this permit; and
2. At reasonable times to have access to and copy records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any discharge of pollutants.

11. Availability of Records and Reports

The permittee shall retain records of all monitoring information, including all calibration and maintenance records as well as copies of reports and information used to complete the application for this permit for at least three years. All records that pertain to matters that are subject to any type of enforcement action shall be retained and preserved by the permittee until all enforcement activities have concluded and all periods of limitation with respect to any and all appeals have expired.

Except for data determined to be confidential under the Sewer Use Ordinance, all reports prepared in accordance with terms of this permit shall be available for public inspection at the Control Authority and/or Municipality. As required by the Sewer Use Ordinance, effluent data shall not be considered confidential.

12. Duty to Provide Information

The permittee shall furnish to the Water Resources Director or his/her designees, within a reasonable time, any information which the Director, his/her designee, or the Division of Water Quality may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish, upon request, copies of records required to be kept by this permit.

13. Signatory Requirements

All reports or information submitted pursuant to the requirements of this permit must be signed and certified by the Authorized Representative as defined under the Sewer Use Ordinance. If the designation of an Authorized Representative is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, or overall responsibility for environmental matters for the company, a new authorization satisfying the requirements of this section must be submitted to the Water Resources Director prior to or together with any reports to be signed by an authorized representative.

14. Toxic Pollutants

If a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Federal Clean Water Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit may be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.

15. Civil and Criminal Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

16. Federal and/or State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable Federal and/or State law or regulation.

17. Penalties

The Sewer Use Ordinance of the Control Authority and/or Municipality provides that any person who violates a permit condition is subject to a civil penalty not to exceed $25,000 dollars per day of such violation.

Under state law, (NCGS 143-215.6B), under certain circumstances it is a crime to violate terms, conditions, or requirements of pretreatment permits. It is a crime to knowingly make any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance. These crimes are enforced at the prosecutorial discretion of the local District Attorney.

18. Need to Halt or Reduce not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the conditions of the permit.

19. Transferability

This permit shall not be reassigned or transferred or sold to a new owner, new user, different premises, or a new or changed operation without approval of the Town.

20. Property Rights

This permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

21. Severability

The provisions of this permit are severable and, if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

22. Permit Modification, Revocation, Termination

This permit may be modified, revoked and reissued or terminated with cause in accordance to the requirements of the Control Authority and/or Municipality Sewer Use Ordinance and North Carolina General Statute or implementing regulations.

23. Re-Application for Permit Renewal

The permittee is responsible for filing an application for reissuance of this permit at least 180 days prior to its expiration date.

24. Dilution Prohibition

The permittee shall not increase the use of potable or process water or in any other way attempt to dilute the discharge as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in this permit.

25. Reports of Changed Conditions

The permittee shall give notice to the Control Authority and/or Municipality of any planned significant changes to the permittee's operations or system which might alter the nature, quality, or volume of its wastewater at least 180 days before the change. The permittee shall not begin the changes until receiving written approval from the Control Authority and/or Municipality. Also see Part II, 30 below for additional reporting requirements for spill/slug issues.

Significant changes may include but are not limited to

(a) Increases or decreases to production;
(b) Increases in discharge of previously reported pollutants;
(c) Discharge of pollutants not previously reported to the Control Authority and/or Municipality;
(d) New or changed product lines;
(e) New or changed manufacturing processes and/or chemicals; or
(f) New or changed customers.

26. Construction

No construction of pretreatment facilities or additions thereto shall be begun until Final Plans and Specifications have been submitted to the Control Authority and/or Municipality and written approval and an Authorization to Construct (A to C) have been issued.

27. Reopener

The permit shall be modified or, alternatively, revoked and reissued to comply with any applicable effluent standard or limitation for the control of any pollutant shown to contribute to toxicity of the WWTP effluent or any pollutant that is otherwise limited by the POTW discharge permit. The permit as modified or reissued under this paragraph may also contain any other requirements of State or Federal pretreatment regulations then applicable.

28. Categorical Reopener

This permit shall be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved under Sections 302(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:

1.) Contains different conditions or is otherwise more stringent than any effluent limitation in this permit; or
2.) Controls any pollutant not limited in this permit.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Act then applicable.

29. General Prohibitive Standards

The permittee shall comply with the general prohibitive discharge standards in 40 CFR 403.5 (a) and (b) of the Federal pretreatment regulations.

30. Potential Problems

The permittee shall provide protection from accidental and slug discharges of prohibited materials and other substances regulated by this permit. The permittee shall also notify the POTW immediately of any changes at its facility affecting the potential for spills and other accidental discharge, discharge of a non-routine, episodic nature, a non-customary batch discharge, or a slug load as defined in the Sewer Use Ordinance.

Additionally, the permittee shall notify by telephone the Control Authority and/or Municipality immediately of all discharges that could cause problems to the POTW including any slug loadings as defined in the Sewer Use Ordinance. If the permittee experiences such a discharge, they shall inform the Control Authority and/or Municipality immediately upon the first awareness of the commencement of the discharge. Notification shall include location of the discharge, type of waste, concentration and volume if known and corrective actions taken by the permittee. A written follow-up report thereof shall be filed by the permittee within five (5) days, unless waived by the Control Authority and/or Municipality.

1. Slug/Spill Control Measures

The permittee shall provide protection from accidental and slug discharges of prohibited materials and other substances regulated by this permit. The permittee shall develop a written slug/spill control plan and submit it to the Control Authority on or before **June 15, 2012** for the approval by the Control Authority. The plan shall include, but is not limited to:

- ¥ Description of discharge practices, including non-routine batch discharges;
- ¥ Description of stored chemicals;
- ¥ Procedures for immediately notifying the POTW of slug discharges that would cause a violation of 40 CFR 403.5(b), with procedures for follow-up notification within 5 days;
- ¥ And if necessary, procedures to prevent adverse impact from accidental spills, including inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site run-off, worker training, building of containment structures or equipment, measures for containing toxic organic pollutants (including solvents), and/or measures and equipment for emergency response.

2. Sludge Management Plan

Ninety days prior to the initial disposal of sludge generated by any pretreatment facility, the permittee shall submit a sludge management plan to the Control Authority.

3. Flow Measurement Requirements

The permittee shall record the water meter reading providing water to the facility at the beginning and end of each composite sample collection time period, convert this to an estimate of the daily discharge flow for each pipe, and report this value on the discharge monitoring report form. If the water meter is unreadable, the control authority may use water consumption reports for estimation of the daily discharge flow for each pipe, and report this value on the discharge monitoring report form.

4. Certified Laboratory Analysis

Pollutant analysis shall be performed by a North Carolina Division of Water Quality Certified Laboratory that is certified in the analysis of the pollutant in wastewater.

5. Total Toxic Organics (TTO) Definition

"TTO", or Total Toxic Organics, is the sum of the concentrations of the toxic organic compounds listed in 40 CFR __433.17_____ that are found in the permittee's process discharge at a concentration greater than 0.01 mg/l.

6. Total Toxic Organics (TTO) Certification

In lieu of monitoring for TTO, the permittee may, upon submitting to the Control Authority one sample showing TTO compliance and a toxic organic management plan, make the following certification every six months:

> "Based upon my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge, no dumping of concentrated toxic organics into the wastewaters has occurred since filing of the last monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the Control Authority."

At a minimum, the certification statements are due by _June 15th_____ of each year covering the January through June six month period, and December 15th_____of each year covering the July through December six month reporting period. If the certification is not submitted for both periods within _10____ days of the respective due dates, the Control Authority shall collect TTO samples before December 31 {and the permittee may be billed for the cost of the TTO sampling and/or analysis}.

7. Toxic Organic Management Plan

Within ninety days of the issuance of this permit, the permittee shall develop and submit to the Control Authority a toxic organic management plan.

IUP Synopsis

A. IUP Basic Information

Receiving POTW name: East Burlington Wastewater Treatment Plant	POTW NPDES#: NC0023868
IUP name: Engineered Controls International, LLC	IUP Number: 0019
IUP Effective date: January 01, 2012	Pipe Numbers, list all regulated pipes: 01
IUP expiration date: December 31, 2016	IUP 40 CFR#, if applicable: 433.17

B. IUP Survey & Application form

Attach a completed copy of the Industrial User Wastewater Survey & Application Form (see appendix 6-A)

C. IU Inspection form

Attach a copy of an Industrial User Inspection Form (see chapter 7) completed by the Control Authority within the past 12 months.

D. RATIONALE FOR LIMITATIONS:

As listed on the IUP Limits Page(s), PART I, Section F of the IUP.

Categorical Industrial Limits, with no Over Allocation situation:

Check here if Combined Wastestream Formula (CWF) used. If used, Please attach calculations: (see CWF Spreadsheet, Appendix 6-F)

Was used	
Was not used	X

The following pollutants were assigned numerical limits in this IUP based on the categorical regulations. These limits do not result in over allocations.

Parameter	**Daily Max. Limit**
Cadmium	0.07 mg/l
Chromium	1.71 mg/l
Copper	2.07 mg/l
Cyanide Total	0.65 mg/l
Lead	0.43 mg/l
Nickel	2.38 mg/l
Silver	0.24 mg/l
Zinc	1.48 mg/l
Oil & Grease	26.0 mg/l
TTO or TTO Certification	2.13 mg/l

City of Burlington

Robert C. Patterson, Jr., P.E.
Water Resources Director

June 6, 2013

Mr. Jimmy McCandies
Engineered Controls
100 Rego Drive
P.O. Box 247
Elon, N.C. 27244

Subject: **Notice of Violation**
Permit # 0019

Dear Mr. McCandies,

This is a Notice of Violation. Sampling conducted on 4/16/2013 thru 4/17/2013 revealed a zinc concentration of 3.97 mg/L. Your permit limit has a daily maximum of 1.48 mg/L.

You must respond in writing to this violation by investigating the source of the high zinc concentration. You must also respond in writing to this office outlining the actions you are taking to ensure this type of violation does not reoccur.

Two additional passing analyses will be required to ensure compliance.

If you have any questions, please feel free to contact Stephen Haller or myself at 222-5133.

Sincerely,

Robert C Patterson Jr

Robert C. Patterson, Jr., P.E.
Water Resources Director
City of Burlington

REGO Engineered Controls Int'l.
100 RegO Drive PO Box 247 Elon, NC 27244 USA Phone (336) 449-7707 Fax (336) 449-6594 www.regoproducts.com

Mr. Robert C. Patterson, Jr., P.E.
Water Resources Director
City of Burlington
P.O. Box 1358
Burlington, N.C. 27216

July 19, 2013

Subject: Notice of Violation; Permit #0019

Dear Mr. Patterson,

This letter is in response to the Notice of Violation dated June 6, 2013. The Notice of Violation was for Zinc sampling on 04/16/13 thru 04/017/13 that revealed a concentration of Zinc that exceeded the permit limit of 1.48 mg/l.

We have investigated the cause of the violation and have concluded that operator error in failing to properly calibrate a ph meter caused the ph to be lower than the optimum for the precipitation of zinc.
Our operators are now required to log all monitoring, calibrations, adjustments and internal sampling and to file the log sheets with their dept. manager and with the Environmental Coordinator. We will now have three levels of inspection to insure that procedures are being followed correctly.

Resampling of zinc conducted on June 11- 12 revealed concentrations of zinc well below permit limits. Those results were submitted on June 24, 2013.

Please contact me at *446-7261* if further information is needed.

Sincerely,

Jimmy McCandies
Environmental/Safety Coordinator

REGO Engineered Controls Int'l.
100 RegO Drive PO Box 247 Elon, NC 27244 USA Phone (336) 449-7707 Fax (336) 449-6594 www.regoproducts.com

Mr. Stephen Haller
Pretreatment Coordinator
City of Burlington
P.O. Box 1358
Burlington, N.C. 27216

June 24, 2013

Dear Mr. Haller,

Attached are June 11-12, 2013 Zinc resampling results for Engineered Controls International per requirements of Industrial User Pretreatment Permit #0019.

All sample results are within permit limits.

Please contact me at *446-7261* if further information is needed.

Sincerely,

Jimmy McCandies
Environmental/Safety Coordinator

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Zinc
Pace Project No.: 92161642

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92161642001	EC1 6-11-13	EPA 200.7	JMW	1	PASI-A
92161642002	EC1 6-12-13	EPA 200.7	JMW	1	PASI-A

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Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-6921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Zinc
Pace Project No.: 92161642

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92161642001	EC1 6-11-13	EPA 200.7	MPRP/13579	EPA 200.7	ICP/12367
92161642002	EC1 6-12-13	EPA 200.7	MPRP/13579	EPA 200.7	ICP/12367

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Pace Analytical
www.pacelabs.com

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Zinc
Pace Project No.: 92161642

Sample: EC1 6-11-13 **Lab ID: 92161642001** Collected: 06/11/13 23:00 Received: 06/14/13 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Zinc	**78.7**	ug/L	10.0	1	06/19/13 13:20	06/20/13 22:19	7440-66-6	

Sample: EC1 6-12-13 **Lab ID: 92161642002** Collected: 06/11/13 23:00 Received: 06/14/13 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Zinc	**115**	ug/L	10.0	1	06/19/13 13:20	06/20/13 22:22	7440-66-6	

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Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1707215

Section A Required Client Information:

Company: Engineered Controls International
Address: PO Box 247
Elon NC 27244
Email To: jmccandi@removeproducts.com
Phone: 336-446-7261 Fax: 336-449-6590
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Jimmy McCandless
Copy To:
Purchase Order No.: TBA
Project Name:
Project Number:

Section C Invoice Information:

Attention: Accounts Payable
Company Name: Engineered Controls International
Address: P.O. Box 247, Elon, NC 27244
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 1919-6

REGULATORY AGENCY:
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ✓ RCRA ☐ OTHER
Site Location: STATE:

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	TIME	COMPOSITE END/GRAB DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Zinc	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	EC 6-11-13	WW	C	6-11-13	8:30 am	6-11-13	8:45 pm					✓						✓			92101640
2	EC 6-12-13	WW	C	6-12-13	8:00 am	6-12-13	10:00 pm					✓						✓			01
3																					02
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Jimmy McCandless	06/14/13	10:10 am	[illegible]	6-14-13	10:10				
	[illegible]	6/14/13	12:50	[illegible]	6-14	12:50	09	Y	N	N

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jimmy McCandless
SIGNATURE of SAMPLER: Jimmy McCandless
DATE Signed (MM/DD/YY): 06-1

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month on any invoices not paid within 30 days.

Appendix G
Soil, Groundwater, and
Lithologic Data Not Previously
Submitted to NCDENR

GAIATECH BORING LOG - GP-12

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-2

FUNCTION INFORMATION			
Date/Time Started	: 11/14/12	Logged By	: William H. Lucas, P.G.
Date/Time Completed	: 11/14/12	Drilling Method	: Geoprobe
Total Depth of Boring	: 30 ft bgs	Hole Diameter	: 3 inch
Total Depth of Well	: 30 ft bgs	Drilling Company	: SC Soil Investigations
		Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–5	1			1.1	ML		Concrete surface (4") followed by red/orange CLAYEY SILT, no odor, dry, almost no plasticity.
5–10	2			2.0	ML		Same a previous.
10–15	3			2.0	ML		Same as previous.
15–20	4			2.0	ML		Orange and yellow silts with very little clay, no odor, dry.
20–25	5			1.2	ML		Same as previous.
25–30	6			1.5	ML		Same as previous. Large quartz fragments at 27' to 27.5 feet.
29–30							Orange and tan saprolitic silts, very moist, no odor.

Boring Terminated at 30 feet.

GAIATECH BORING LOG - GP-13

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-2

FUNCTION INFORMATION			
Date/Time Started	: 11/14/12	Logged By	: Chris M. O'Brien, P.G.
Date/Time Completed	: 11/14/12	Drilling Method	: Geoprobe
Total Depth of Boring	: 35 ft bgs	Hole Diameter	: 3 inch
Total Depth of Well	: 35 ft bgs	Drilling Company	: SC Soil Investigations
		Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–5	1			1.1	ML		Concrete surface (4") followed by orange and brown CLAYEY SILT, slight odor, dry, some organic matter.
5–10	2			1.8	ML		Same a previous.
10–15	3			1.4	ML		Same as previous.
15–20	4			1.3	ML		Orange and yellow CLAYEY SILT, softer, dry.
20–25	5			1.9	ML		Same as previouswith more saprolitic structure and some mica, soft.
25–30	6			1.5	ML		Same as previous, slightly moist.
30–35	7			1.6			White/tan, silty saprolite with black micas, very moist/wet soft.

GAIATECH BORING LOG - GP-14

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-2

FUNCTION INFORMATION			
Date/Time Started	: 11/14/12	Logged By	: Chris M. O'Brien, P.G.
Date/Time Completed	: 11/14/12	Drilling Method	: Geoprobe
Total Depth of Boring	: 35 ft bgs	Hole Diameter	: 3 inch
Total Depth of Well	: 35 ft bgs	Drilling Company	: SC Soil Investigations
		Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–1					ML		Concrete surface (4") followed by red/orange CLAYEY SILT, dry.
1–5	1			4.3	ML		Same a previous with gray silts and some organic matter.
5–10	2			115	ML		Orange, brown CLAYEY SILT, hard, dry, slight sweet odor.
10–15	3			23.9			
15–20	4			6.9	ML		Same as above, more red/orange color, no odor.
20–25	5			20.6			
25–30	6			10.3	ML		orange and black CLAYEY SILT, saprolitic structure, slightly moist, soft.
30–33	7			20.8	ML		Same as previous, moist/wet.
33–35							Tan, brown, silty saprolite, some micas, rock texture, moist/wet.

Boring Terminated at 35 feet.

GAIATECH BORING LOG - GP-15

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-2

FUNCTION INFORMATION			
Date/Time Started	: 11/14/12	Logged By	: Chris M. O'Brien, P.G.
Date/Time Completed	: 11/14/12	Drilling Method	: Geoprobe
Total Depth of Boring	: 35 ft bgs	Hole Diameter	: 3 inch
Total Depth of Well	: 35 ft bgs	Drilling Company	: SC Soil Investigations
		Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–5	1			2.0	ML		Concrete surface (4") followed by orange/brown CLAYEY SILT, dry.
5–10	2			11.2			
10–15	3			15.5	ML		Same as above, strong organic odor.
15–20	4			11.3			
20–25	5			10.1	ML		Ornage and white CLAYEY SILT, saprolitic, soft, dry.
25–30	6			15.3	ML		Same as previous, moist.
30–35	7			23.5			Pink, tan, CLAYEY SILT, saprolitic, moist, rock texture.

Boring Terminated at 35 feet.

GAIATECH BORING LOG - GP-16

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-2

FUNCTION INFORMATION			
Date/Time Started	: 11/14/12	Logged By	: Chris M. O'Brien, P.G.
Date/Time Completed	: 11/14/12	Drilling Method	: Geoprobe
Total Depth of Boring	: 35 ft bgs	Hole Diameter	: 3 inch
Total Depth of Well	: 35 ft bgs	Drilling Company	: SC Soil Investigations
		Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–5	1			2.0	ML		Concrete surface (4") followed by orange/brown CLAYEY SILT, dry.
5–10	2			11.2	ML		Concrete surface (4") followed by orange/brown CLAYEY SILT, dry.
10–15	3			15.5	ML		Same as above, slight odor.
15–20	4			11.3	ML		Same as above, strong "sweet" odor at 15 ft. to 20 ft.
20–25	5			10.1	ML		Same as above, strong "sweet" odor at 15 ft. to 20 ft.
25–30	6			15.3	ML		brown, Same as previous, slightly moist, slight "sweet" odor.
30–35	7			23.5			Orange and black saprolytic silts, some micas, moist, slight organic odor.

Boring Terminated at 35 feet.

GAIATECH BORING LOG - GP-17

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-2

FUNCTION INFORMATION			
Date/Time Started	: 11/14/12	Logged By	: Chris M. O'Brien, P.G.
Date/Time Completed	: 11/14/12	Drilling Method	: Geoprobe
Total Depth of Boring	: 35 ft bgs	Hole Diameter	: 3 inch
Total Depth of Well	: 35 ft bgs	Drilling Company	: SC Soil Investigations
		Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–5	1			0.5	ML		Concrete surface (4") followed by orange/brown CLAYEY SILT, dry.
5–10	2			0.8			
10–15	3			0.9	ML		Same as above, slight odor.
15–20	4			0.7	ML		Orange and tan CLAYEY SILT, saprolytic, soft.
20–25	5			0.8			
25–30	6			1.0	ML		Same as above with some sand, low plasticity very soft.
30–35	7			1.1			White, tan, silty saprolite, some mica, soft moist.

Boring Terminated at 35 feet.

GAIATECH BORING LOG - GP-18

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-2

FUNCTION INFORMATION

Date/Time Started	: 11/14/12
Date/Time Completed	: 11/14/12
Total Depth of Boring	: 30 ft bgs
Total Depth of Well	: 30 ft bgs

Logged By	: Chris M. O'Brien, P.G.
Drilling Method	: Geoprobe
Hole Diameter	: 3 inch
Drilling Company	: SC Soil Investigations
Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–5	1			0.9	ML		Concrete surface (4") followed by orange slightly CLAYEY SILT, hard, dry.
5–8	2			0.7			
8–23	3, 4, 5			1.4, 1.4, 1.8	ML		Orange and yellow CLAYEY SILT, soft.
23–24					ML		White and tan CLAYEY SILT, saprolytic, soft, dry.
24–25					ML		Black CLAYEY SILT, soft.
25–30	6			2.3			White, tan, black, silty saprolite, moist.

Boring Terminated at 30 feet.

GAIATECH BORING LOG - GP-19

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-2

FUNCTION INFORMATION			
Date/Time Started	: 11/14/12	Logged By	: Chris M. O'Brien, P.G.
Date/Time Completed	: 11/14/12	Drilling Method	: Geoprobe
Total Depth of Boring	: 35 ft bgs	Hole Diameter	: 3 inch
Total Depth of Well	: 35 ft bgs	Drilling Company	: SC Soil Investigations
		Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–13	1, 2, 3			1.4, 2.2, 6.4	ML		Concrete surface (4") followed by orange and brown slightly CLAYEY SILT, hard, dry.
13–22	4			6.6	ML		Orange and tan CLAYEY SILT with saprolite structure, dry, soft, some micas.
22–26	5			6.7	ML		Same as above, mositure content increasing.
26–29	6			7.8	ML		Dark orange and black slightly CLAYEY SILT, saprolite structure, moist, some mica.
29–33	7			2.1			Same as above, slightly harder, less moist to dry.
33–35							Brown and white saprolitic silts with litttle clay, moist, rock structure.

Boring Terminated at 35 feet.

GAIATECH BORING LOG - GP-20

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-2

FUNCTION INFORMATION

Date/Time Started	: 11/14/12
Date/Time Completed	: 11/14/12
Total Depth of Boring	: 35 ft bgs
Total Depth of Well	: 35 ft bgs

Logged By	: Chris M. O'Brien, P.G.
Drilling Method	: Geoprobe
Hole Diameter	: 3 inch
Drilling Company	: SC Soil Investigations
Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–5	1			1.5	CL		Concrete surface (4") followed by orange and red SILTY CLAY.
5–6					SM		Brown SILTY SAND, some clay.
6–10	2			1.4	CL		Orange and brown SILTY CLAY, some sand.
10–29	3, 4, 5, 6			1.8, 4.3, 2.6, 3.2	ML		Orange and brown CLAYEY SILT.
29–35	7			7.2			White and orange silts with saprolitic strructure, some micas, slightly moist to moist.

Boring Terminated at 35 feet.

GAIATECH BORING LOG - GP-21

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-2

FUNCTION INFORMATION

Date/Time Started	: 11/14/12
Date/Time Completed	: 11/14/12
Total Depth of Boring	: 35 ft bgs
Total Depth of Well	: 35 ft bgs

Logged By	: Chris M. O'Brien, P.G.
Drilling Method	: Geoprobe
Hole Diameter	: 3 inch
Drilling Company	: SC Soil Investigations
Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–5	1			2.2	CL		Concrete surface (4") followed by red and brown CLAYEY SILT, dry.
5–10	2			4.5	CL		
10–15	3			15.4	CL		
15–20	4			20.0	ML		Orange and yellow CLAYEY SILT, dry, soft, slight odor.
20–25	5			20.1	ML		
25–30	6			21.2	ML		Orange, pink slightly CLAYEY SILT, saprolite structure, some micas, dry, slightl organic odor.
30–35	7			53.1	ML		Same as above with more mica, moist, some white silts, slight odor.

Boring Terminated at 35 feet.

GAIATECH BORING LOG - GP-22

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-2

FUNCTION INFORMATION			
Date/Time Started	: 11/8/12	Logged By	: Chris M. O'Brien, P.G.
Date/Time Completed	: 11/8/12	Drilling Method	: Geoprobe
Total Depth of Boring	: 30 ft bgs	Hole Diameter	: 3 inch
Total Depth of Well	: 30 ft bgs	Drilling Company	: SC Soil Investigations
		Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–5	1			3.8	CL		Asphalt surface followed by red and brown CLAYEY SILT, dry.
5–10	2			207	ML		Orange, gray, red, brown, CLAYEY SILT, moist.
10–15	3			124	ML		Orange, yellow, red, brown CLAYEY SILT.
15–20	4			27	ML		Brown, red, CLAYEY SILT, some sand.
20–25	5			31.4	CL		Orange, yellow SILTY CLAY, saprolite structure, some sands and micas.
25–30	6			20.7	CL		

Boring Terminated at 30 ft.

GAIATECH BORING LOG - GP-23

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-2

FUNCTION INFORMATION			
Date/Time Started	: 11/8/12	Logged By	: Chris M. O'Brien, P.G.
Date/Time Completed	: 11/8/12	Drilling Method	: Geoprobe
Total Depth of Boring	: 30 ft bgs	Hole Diameter	: 3 inch
Total Depth of Well	: 30 ft bgs	Drilling Company	: SC Soil Investigations
		Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–5	1			3.7	SM		Asphalt surface followed by gravel and SILTY SAND.
5–10	2			6.2	CL		Orange and yellow SILTY CLAY.
10–15	3			14.2	CL		Same as above with some organic debris.
15–20	4			7	CL		Same as above with slight "sweet" odor.
20–25	5			10.3	CL		Same as previous.
25–30	6			5.8	CL		Red, orange, and yellow SILTY CLAY.

Boring Terminated at 30 ft.

GAIATECH BORING LOG - GP-24

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-2

FUNCTION INFORMATION			
Date/Time Started	: 11/8/12	Logged By	: Chris M. O'Brien, P.G.
Date/Time Completed	: 11/8/12	Drilling Method	: Geoprobe
Total Depth of Boring	: 30 ft bgs	Hole Diameter	: 3 inch
Total Depth of Well	: 30 ft bgs	Drilling Company	: SC Soil Investigations
		Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–5	1			0.5	CL		Asphalt surface followed by red and orange SILTY CLAY.
5–10	2			1.1	CL		Orange and gray SILTY CLAY, some organic debris, some sand, no odor.
10–15	3			1.3	CL		Orange and yellow mottled SILTY CLAY, softer.
15–20	4			1.1	CL		Ornage and yellow mottled SILTY CLAY, some sand.
20–25	5			1.3	SM		Orange and gray SILTY SAND, some clay, soft, moist.
25–30	6			1.1	SM		Same as previous.

Boring Terminated at 30 ft.

GAIATECH BORING LOG - GP-25

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-2

FUNCTION INFORMATION			
Date/Time Started	: 11/8/12	Logged By	: Chris M. O'Brien, P.G.
Date/Time Completed	: 11/8/12	Drilling Method	: Geoprobe
Total Depth of Boring	: 30 ft bgs	Hole Diameter	: 3 inch
Total Depth of Well	: 30 ft bgs	Drilling Company	: SC Soil Investigations
		Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–5	1			3.6	CL		Gravel surface followed by red and brown SILTY CLAY.
5–10	2			1.0	CL		Brown and gray SILTY CLAY.
10–15	3			1.7	CL		Red, orange, SILTY CLAY, hard.
15–20	4			0.6	CL		Brown, gray, SILTY CLAY, soft, moist.
20–25	5			1.0	SM		Red, orange SILTY CLAY, hard, saprolite structure.
25–30	6			3.0	SM		Same as previous with more rock-like structure.

Boring Terminated at 30 ft.

GAIATECH BORING LOG - GP-26

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-2

FUNCTION INFORMATION			
Date/Time Started	: 11/8/12	Logged By	: Chris M. O'Brien, P.G.
Date/Time Completed	: 11/8/12	Drilling Method	: Geoprobe
Total Depth of Boring	: 30 ft bgs	Hole Diameter	: 3 inch
Total Depth of Well	: 30 ft bgs	Drilling Company	: SC Soil Investigations
		Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–5	1			2.2	CL		Orange, brown, SILTY CLAY, some sand, some organic debris.
5–10	2			0.3	CL		Orange and tan SILTY CLAY.
10–15	3			0.5	CL		Same as above with some sand, saprolitic structure present.
15–20	4			0.6			
20–23	5			0.4	CL		Tan SILTY CLAY, with some sand, moist.
23–25					CL		Red, orange SILTY CLAY, hard, saprolite structure.
25–30	6			0.1	CL		Brown, tan, SILTY CLAY, some sand, moist.

Boring Terminated at 30 ft.

GAIATECH BORING LOG - GP-27

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-2

FUNCTION INFORMATION			
Date/Time Started	: 11/8/12	Logged By	: Chris M. O'Brien, P.G.
Date/Time Completed	: 11/8/12	Drilling Method	: Geoprobe
Total Depth of Boring	: 30 ft bgs	Hole Diameter	: 3 inch
Total Depth of Well	: 30 ft bgs	Drilling Company	: SC Soil Investigations
		Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–5	1			0.5	CL		Orange, brown, SILTY CLAY, topsoil, some sand, some organic debris.
5–10	2			0.1	CL		Orange and tan SILTY CLAY, hard.
10–15	3			1.9	CL		
15–20	4			0.2	CL		Tan SILTY CLAY, saprolite structure.
20–25	5			1.0	CL		
25–30	6			0.4	CL		Same as above, moist. Brown, tan, SILTY CLAY, some sand, moist.

Boring Terminated at 30 ft.

GAIATECH BORING LOG - GP-28

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-2

FUNCTION INFORMATION			
Date/Time Started	: 11/8/12	Logged By	: Chris M. O'Brien, P.G.
Date/Time Completed	: 11/8/12	Drilling Method	: Geoprobe
Total Depth of Boring	: 30 ft bgs	Hole Diameter	: 3 inch
Total Depth of Well	: 30 ft bgs	Drilling Company	: SC Soil Investigations
		Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–5	1			0.2	CL		Brown, red, SILTY CLAY, topsoil, some sand, organics/grass/roots.
5–10	2			0.1	CL		Red, orange, SILTY CLAY, hard, some black iron oxide stains.
10–15	3			0.3			
15–20	4			0.7	CL		Tan SILTY CLAY, very hard.
20–25	5			0.0			
25–30	6			0.0	MH		White, gray SANDY SILT, some fine sands, saprolite structure, moist.

Boring Terminated at 30 ft.

GAIATECH BORING LOG - GP-29

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-2

FUNCTION INFORMATION			
Date/Time Started	: 11/8/12	Logged By	: Chris M. O'Brien, P.G.
Date/Time Completed	: 11/8/12	Drilling Method	: Geoprobe
Total Depth of Boring	: 30 ft bgs	Hole Diameter	: 3 inch
Total Depth of Well	: 30 ft bgs	Drilling Company	: SC Soil Investigations
		Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–5	1			0.3	CL		Red, brown, SILTY CLAY, some sand, organic matter.
5–10	2			0.5	CL		Orange, brown SILTY CLAY, with organic matter (old topsoil).
10–15	3			0.0	CL		Red, orange SILTY CLAY, hard.
15–20	4			0.0			
20–25	5			0.2	CL		Orange, yellow SILTY CLAY, moist, saprolite structure.
25–30	6			0.0			

Boring Terminated at 30 ft.

GaiaTech, Inc.
Environmental Risk. Managed.

GAIATECH BORING LOG - GP-30

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamance County, North Carolina
GaiaTech Project #150153.421.00

FUNCTION INFORMATION

Date/Time Started	: 2/12/13	Logged By	: William H. Lucas, P.G.
Date/Time Completed	: 2/12/13	Drilling Method	: Geoprobe
Total Depth of Boring	: 35 ft bgs	Hole Diameter	: 3 inch
Total Depth of Well	: 35 ft bgs	Drilling Company	: SC Soil Investigations
		Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–5	1			0.1	ML		Red/orange CLAYEY SILT; odor.
5–10	2			0.7	ML		
10–15	3			0.7	ML		
15–20	4			0.5	ML		
20–25	5			0.3	ML		
25–28	6			0.9	ML		
28–35	7			0.7	ML		Red, orange, brown CLAYEY SILT, saproliet, slightly plastic, no odor.

Boring Terminiated at 35 feet.

GaiaTech, Inc.
Environmental Risk. Managed.

GAIATECH BORING LOG - GP-31

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamance County, North Carolina
GaiaTech Project #150153.421.00

FUNCTION INFORMATION

Date/Time Started	: 2/12/13	Logged By	: William H. Lucas, P.G.
Date/Time Completed	: 2/12/13	Drilling Method	: Geoprobe
Total Depth of Boring	: 27 ft bgs	Hole Diameter	: 3 inch
Total Depth of Well	: 27 ft bgs	Drilling Company	: SC Soil Investigations
		Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0							Same geology as GP-32.
1	1			0.1			
2							
3							
4							
5	2			0.5			
6							
7							
8							
9							
10	3			2.1	ML		
11							
12							
13							
14							
15	4			1.3			
16							
17							
18							
19							
20	5			1.7			
21							
22							
23							
24							
25	6			1.3			
26							
27							Boring Teminated - Refusal on Rock.
28							

GaiaTech, Inc.
Environmental Risk. Managed.

GAIATECH BORING LOG - GP-32

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamance County, North Carolina
GaiaTech Project #150153.421.00

FUNCTION INFORMATION			
Date/Time Started	: 2/12/13	Logged By	: William H. Lucas, P.G.
Date/Time Completed	: 2/12/13	Drilling Method	: Geoprobe
Total Depth of Boring	: 27 ft bgs	Hole Diameter	: 3 inch
Total Depth of Well	: 27 ft bgs	Drilling Company	: SC Soil Investigations
		Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–3	1			0.1	ML		Asphalt cover, crush n run gravels / SANDY SILTS; Followed by red/orange CLAYEY SILT; no odor, fill, slightly plastic.
4–5					CL		Gray/orange, CLAYEY SILT, native, plastic, no odor.
5–10	2			0.5	ML		Red/orange and tan/yellow CLAYEY SILT, native, plastic, no odor.
11–12					ML		SAND, Poorly Graded, Black/gray SILTY CLAY, with organics, plastic, slight organic odor.
10–15	3			2.1	ML		Red/orange CLAYEY SILT, slight sweet odor at 17 to 18 ft.
15–18	4			1.3	ML		
18–25	5			1.7	ML		Saprolitic CLAYEY SILT, soft, no odor, white, tan, orange.
25–27	6			1.3			

Boring Teminated - Refusal on Rock.

GaiaTech, Inc.
Environmental Risk. Managed.

GAIATECH BORING LOG - GP-33

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamance County, North Carolina
GaiaTech Project #150153.421.00

FUNCTION INFORMATION

Date/Time Started	: 2/12/13
Date/Time Completed	: 2/12/13
Total Depth of Boring	: 30 ft bgs
Total Depth of Well	: 30 ft bgs
Logged By	: William H. Lucas, P.G.
Drilling Method	: Geoprobe
Hole Diameter	: 3 inch
Drilling Company	: SC Soil Investigations
Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–2							Concrete and base material.
2–5	1			1.5	ML		Red, orange CLAYEY SILT, no odor.
5–10	2			2.5	ML		
10–15	3			4.9	ML		
15–20	4			4.8	ML		
20–25	5			4.0	ML		
25–30	6			2.0	ML		Brown, tan, white, black CLAYEY SILT, saprolite, no odor.

Boring Terminated at 30 ft.

GaiaTech, Inc.
Environmental Risk. Managed.

GAIATECH BORING LOG - GP-34

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamance County, North Carolina
GaiaTech Project #150153.421.00

FUNCTION INFORMATION

Date/Time Started	: 2/12/13	Logged By	: William H. Lucas, P.G.
Date/Time Completed	: 2/12/13	Drilling Method	: Geoprobe
Total Depth of Boring	: 30 ft bgs	Hole Diameter	: 3 inch
Total Depth of Well	: 30 ft bgs	Drilling Company	: SC Soil Investigations
		Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–5	1			1.4	ML		Red, orange CLAYEY SILT, no odor.
5–10	2			1.8	ML		
10–15	3			2.6	ML		
15–20	4			2.3	ML		
20–25	5			2.7	ML		
25–30	6			2.4	ML		Brown, tan, white, black CLAYEY SILT, saprolite, moist, no odor.
30–35	7			2.4	ML		

Boring Terminated at 35 ft.

GaiaTech, Inc.
Environmental Risk. Managed.

GAIATECH BORING LOG - GP-35

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamance County, North Carolina
GaiaTech Project #150153.421.00

FUNCTION INFORMATION

Date/Time Started	: 2/12/13	Logged By	: William H. Lucas, P.G.
Date/Time Completed	: 2/12/13	Drilling Method	: Geoprobe
Total Depth of Boring	: 35 ft bgs	Hole Diameter	: 3 inch
Total Depth of Well	: 35 ft bgs	Drilling Company	: SC Soil Investigations
		Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–5	1			1.5	ML		Red, orange CLAYEY SILT, no odor.
5–10	2			1.7	ML		
10–15	3			2.1	ML		
15–20	4			2.4	ML		
20–25	5			2.5	ML		
25–30	6			1.2	ML		
28–35	7			1.7	ML		Red, orange, tan, black, CLAYEY SILT saprolite, no odor.

Boring Terminated at 35 ft.

GaiaTech, Inc.
Environmental Risk. Managed.

GAIATECH BORING LOG - GP-36

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamance County, North Carolina
GaiaTech Project #150153.421.00

FUNCTION INFORMATION			
Date/Time Started	: 2/12/13	Logged By	: William H. Lucas, P.G.
Date/Time Completed	: 2/12/13	Drilling Method	: Geoprobe
Total Depth of Boring	: 30 ft bgs	Hole Diameter	: 3 inch
Total Depth of Well	: 30 ft bgs	Drilling Company	: SC Soil Investigations
		Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–5	1			2.5	ML		Red, orange CLAYEY SILT, no odor.
5–10	2			1.7	ML		
10–15	3			1.6	ML		
15–20	4			2.4	ML		
20–25	5			2.6	SM		Orange, tan, CLAYEY SILT with some fine sand, no odor, moist.
25–30	6			1.9	SM		

Boring Terminated at 30 ft.

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GAIATECH BORING LOG - GP-37

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamance County, North Carolina
GaiaTech Project #150153.421.00

FUNCTION INFORMATION

Date/Time Started	: 2/12/13	Logged By	: William H. Lucas, P.G.
Date/Time Completed	: 2/12/13	Drilling Method	: Geoprobe
Total Depth of Boring	: 35 ft bgs	Hole Diameter	: 3 inch
Total Depth of Well	: 35 ft bgs	Drilling Company	: SC Soil Investigations
		Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–5	1			1.6	ML		Red, orange CLAYEY SILT, very hard, no odor.
5–10	2			2.4			
10–15	3			2.7	ML		Same as above, less hard, no odor.
15–20	4			1.7			
20–25	5			1.9	ML		Red, white, tan CLAYEY SILT, no odor.
25–30	6			2.4			
30–35	7			1.6	ML		Red, orange, tan, black CLAYEY SILT, saprolite, no odor.

boring Terminated at 35 Feet.

GaiaTech, Inc.
Environmental Risk. Managed.

GAIATECH BORING LOG - GP-38

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamance County, North Carolina
GaiaTech Project #150153.421.00

FUNCTION INFORMATION

Date/Time Started	: 2/12/13	Logged By	: William H. Lucas, P.G.
Date/Time Completed	: 2/12/13	Drilling Method	: Geoprobe
Total Depth of Boring	: 35 ft bgs	Hole Diameter	: 3 inch
Total Depth of Well	: 35 ft bgs	Drilling Company	: SC Soil Investigations
		Sampling Method	: Dual Tube

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–5	1			0.5	ML		Red, orange CLAYEY SILT, no odor.
5–10	2			0.7	ML		
10–15	3			1.1	ML		
15–20	4			0.7	ML		
20–25	5			1.7	ML		
25–30	6			1.5	ML		
28–35	7			1.9	ML		Tan, orange CLAYEY SILT, saprolite, no odor, biotite.

boring Terminated at 35 Feet.

GAIATECH WELL LOG - MW-8

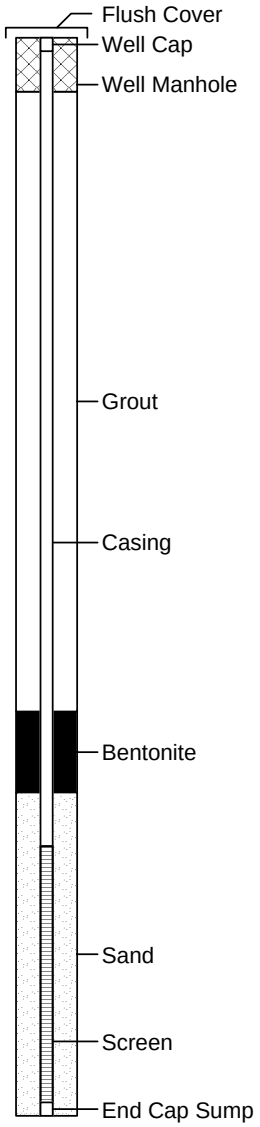
(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-1

FUNCTION INFORMATION			
Date/Time Started	: 11/05/12	Logged By	: William H. Lucas, P. G.
Date/Time Completed	: 11/06/12	Drilling Method	: Direct Push
Total Depth of Boring	: 40 ft bgs	Hole Diameter	: 4-in.
Total Depth of Well	: 40 ft bgs	Drilling Company	: Carolina Soil Invest.
		Sampling Method	: Soil Cuttings

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0							Soil lithology not recorded.
40							Boring Terminated at 40 ft.

Well: MW-8
Elev.: TBD



GAIATECH WELL LOG - MW-9

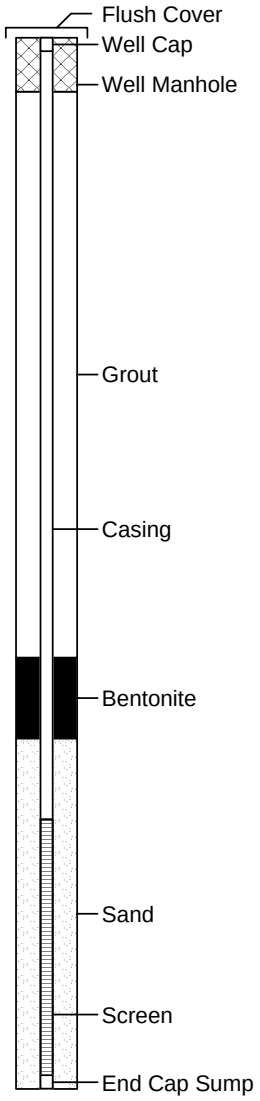
(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-1

FUNCTION INFORMATION			
Date/Time Started	: 11/05/12	Logged By	: William H. Lucas, P. G.
Date/Time Completed	: 11/06/12	Drilling Method	: Direct Push
Total Depth of Boring	: 45 ft bgs	Hole Diameter	: 4-in.
Total Depth of Well	: 39 ft bgs	Drilling Company	: Carolina Soil Invest.
		Sampling Method	: Soil Cuttings

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0							Soil lithology not recorded.
45							Tool Refusal at 45 ft. Borehole collapsed to 39 feet.

Well: MW-9
Elev.: TBD



GAIATECH WELL LOG - MW-10

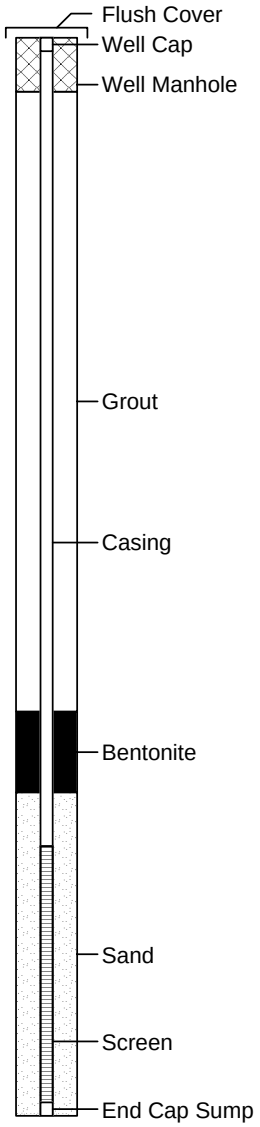
(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-1

FUNCTION INFORMATION			
Date/Time Started	: 11/06/12	Logged By	: William H. Lucas, P. G.
Date/Time Completed	: 11/06/12	Drilling Method	: Direct Push
Total Depth of Boring	: 40 ft bgs	Hole Diameter	: 4-in.
Total Depth of Well	: 40 ft bgs	Drilling Company	: Carolina Soil Invest.
		Sampling Method	: Soil Cuttings

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0							Soil lithology not recorded.
40							Boring Terminated at 40 ft.

Well: MW-10
Elev.: TBD



GAIATECH WELL LOG - MW-11

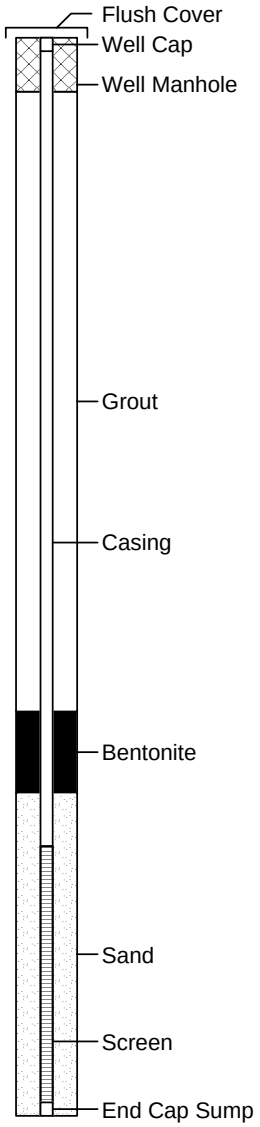
(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-1

FUNCTION INFORMATION			
Date/Time Started	: 11/06/12	Logged By	: William H. Lucas, P. G.
Date/Time Completed	: 11/06/12	Drilling Method	: Direct Push
Total Depth of Boring	: 40 ft bgs	Hole Diameter	: 4-in.
Total Depth of Well	: 40 ft bgs	Drilling Company	: Carolina Soil Invest.
		Sampling Method	: Soil Cuttings

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0							Soil lithology not recorded.
40							Boring Terminated at 40 ft.

Well: MW-11
Elev.: TBD



GAIATECH WELL LOG - MW-12

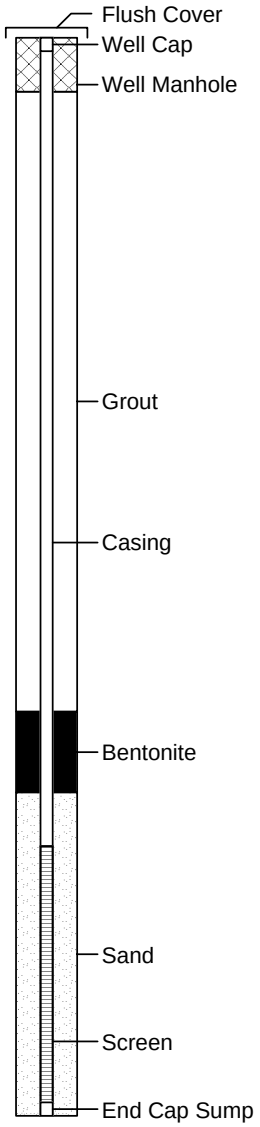
(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-1

FUNCTION INFORMATION			
Date/Time Started	: 11/05/12	Logged By	: William H. Lucas, P. G.
Date/Time Completed	: 11/05/12	Drilling Method	: Direct Push
Total Depth of Boring	: 40 ft bgs	Hole Diameter	: 4-in.
Total Depth of Well	: 40 ft bgs	Drilling Company	: Carolina Soil Invest.
		Sampling Method	: Soil Cuttings

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0							Soil lithology not recorded.
40							Boring Terminated at 40 ft.

Well: MW-12
Elev.: TBD



GAIATECH WELL LOG - MW-13

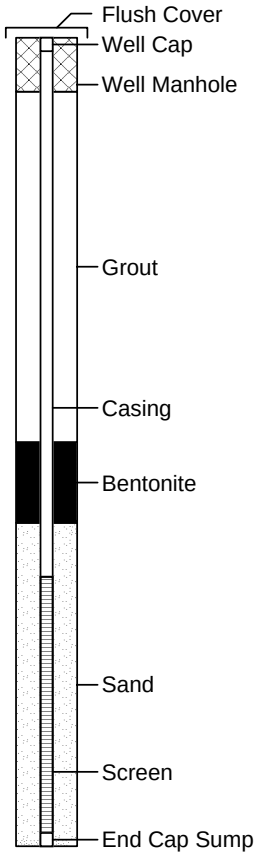
(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-1

FUNCTION INFORMATION			
Date/Time Started	: 11/06/12	Logged By	: William H. Lucas, P. G.
Date/Time Completed	: 11/06/12	Drilling Method	: Direct Push
Total Depth of Boring	: 40 ft bgs	Hole Diameter	: 4-in.
Total Depth of Well	: 30 ft bgs	Drilling Company	: Carolina Soil Invest.
		Sampling Method	: Soil Cuttings

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0							Soil lithology not recorded.
40							Boring Terminated at 40 ft. Borehole collapsed to 30 feet.

Well: MW-13
Elev.: TBD



GAIATECH WELL LOG - DW-1

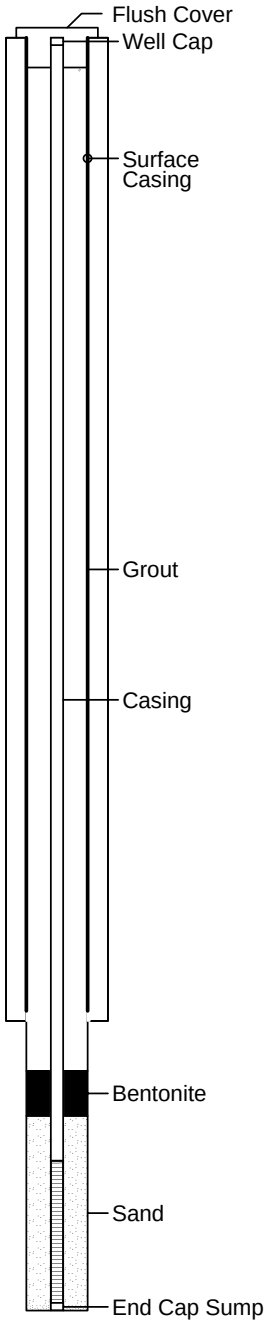
(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-1

FUNCTION INFORMATION			
Date/Time Started	: 11/05/12	Logged By	: William H. Lucas, P. G.
Date/Time Completed	: 11/07/12	Drilling Method	: Air Rotary
Total Depth of Boring	: 85 ft bgs	Hole Diameter	: 6 inch / 4 inch
Total Depth of Well	: 85 ft bgs	Drilling Company	: Carolina Soil Invest.
		Sampling Method	: Soil Cuttings

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0					CL		Asphalt surface followed by reddish-orange to brown/tan SILTY SANDY CLAY
62							Competent bedrock at 61 feet. Keyed into rock to 65 feet and set outer4-inch casing.

Well: DW-1
Elev.: TBD



Screen

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GAIATECH WELL LOG - DW-2

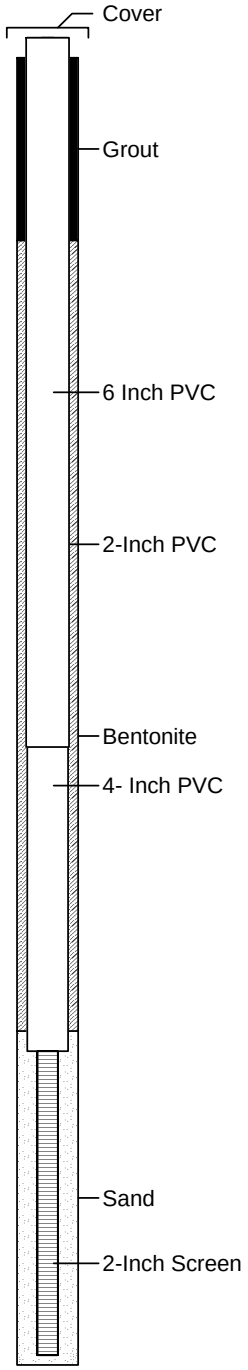
(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-1

FUNCTION INFORMATION			
Date/Time Started	: 02/14/13	Logged By	: William H. Lucas, P. G.
Date/Time Completed	: 02/20/13	Drilling Method	: Air Rotary
Total Depth of Boring	: 85 ft bgs	Hole Diameter	: 6 inch / 4 inch
Total Depth of Well	: 85 ft bgs	Drilling Company	: Carolina Soil Invest.
		Sampling Method	: Soil Cuttings

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0					ML		Asphalt surface followed by reddish-orange CLAYEY SILT.
65							Competent bedrock at 66 feet. Keyed into rock to 71 feet and set outer 6-inch casing.
75							Encountered water bearing fracture or fractures at 75 ft. and extending to 85 ft, then the bedrock becomes more competent with no apparent fractures from 85 to 100 ft. Set inner 4-inch casing from 0 to 100 ft.
100							grey, Hard, competent rock from 100 to 104 ft. Small soft zone at approx. 105. Hard, competent rock from 105 to 109 ft. Additional soft zone from 109 to 110 ft. Allowed tooling to sit for several minutes, then blew out the borehole. Only an insignificant amount of water produced.
125							Soft zone encountered at 122 ft and again at 124 ft. to 130 ft.
130							Boring terminated at 131 Feet.

Well: DW-2
Elev.:



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GAIATECH WELL LOG - MW-14

(PAGE 1 TO 1)

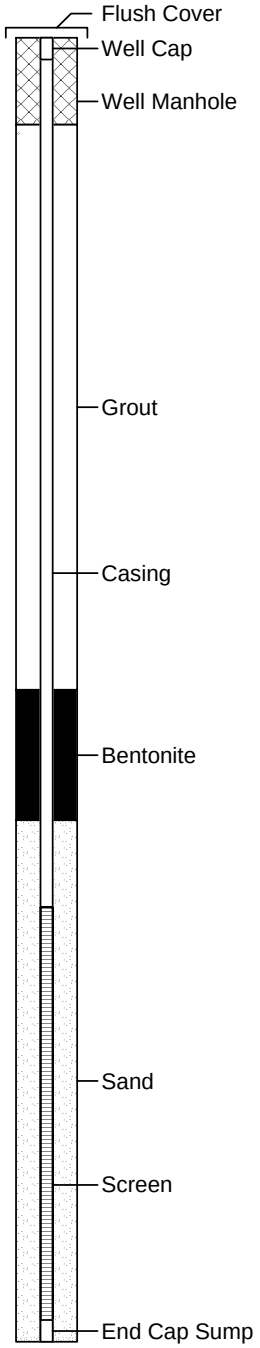
Engineered Controls International
100 Rego Drive
Elon, Alamance County, North Carolina
GaiaTech Project #150153.421.00

FUNCTION INFORMATION			
Date/Time Started	: 02/11/13	Logged By	: William H. Lucas, P. G.
Date/Time Completed	: 02/11/13	Drilling Method	: Direct Push
Total Depth of Boring	: 30 ft bgs	Hole Diameter	: 4-in.
Total Depth of Well	: 30 ft bgs	Drilling Company	: Carolina Soil Invest.
		Sampling Method	: Soil Cuttings

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0							Lithology not recorded.
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							

Boring Terminated at 30 Feet.

Well: MW-14
Elev.:



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GAIATECH WELL LOG - MW-14

(PAGE 1 TO 1)

Engineered Controls International
100 Rego Drive
Elon, Alamance County, North Carolina
GaiaTech Project #150153.421.00

FUNCTION INFORMATION			
Date/Time Started	: 02/11/13	Logged By	: William H. Lucas, P. G.
Date/Time Completed	: 02/11/13	Drilling Method	: Direct Push
Total Depth of Boring	: 30 ft bgs	Hole Diameter	: 4-in.
Total Depth of Well	: 30 ft bgs	Drilling Company	: Carolina Soil Invest.
		Sampling Method	: Soil Cuttings

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0							Lithology not recorded.
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
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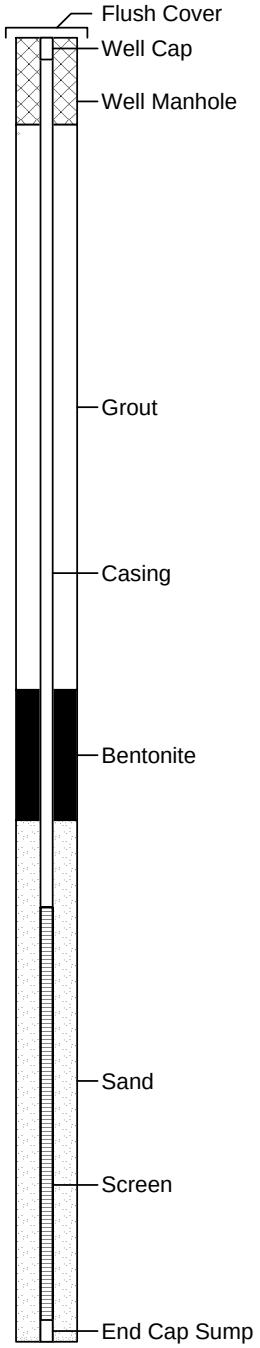
28							
29							
30							
31							

Boring Terminated at 30 Feet.

Well: MW-15
Elev.:



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GAIATECH WELL LOG - MW-16

(PAGE 1 TO 1)

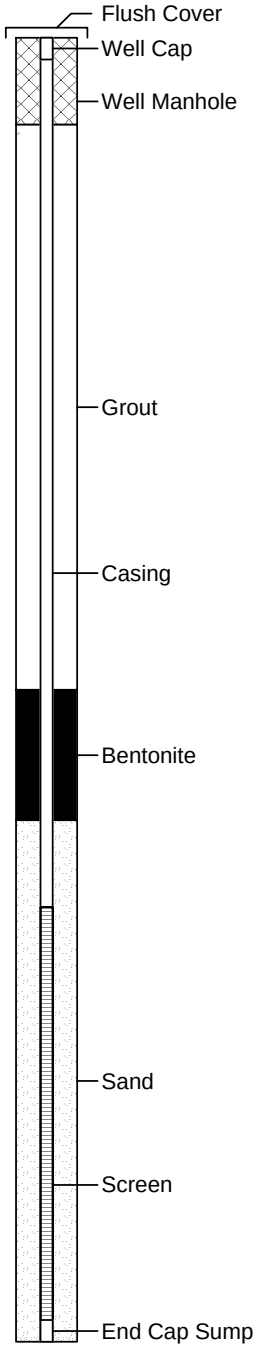
Engineered Controls International
100 Rego Drive
Elon, Alamanche County, North Carolina
GaiaTech Project #B1116-421-1

FUNCTION INFORMATION			
Date/Time Started	: 02/11/13	Logged By	: William H. Lucas, P. G.
Date/Time Completed	: 02/11/13	Drilling Method	: Direct Push
Total Depth of Boring	: 30 ft bgs	Hole Diameter	: 4-in.
Total Depth of Well	: 30 ft bgs	Drilling Company	: Carolina Soil Invest.
		Sampling Method	: Soil Cuttings

Depth In	Sample	Blow Count	% Recovery	PID (ppm)	USCS	GRAPHIC	Description
0–13					ML		Native surface with pinestraw, leaf litter followed by reddish orange CLAYEY SILT, dry.
13–18					CL		Grades to more orange, tan SILTY CLAY. Moist from 13 to 15 ft.
18–30					SM		White, tan SANDY SILT, moist to wet.

Boring Terminated at 30 ft.

Well: MW-16
Elev.:



Pace Analytical Services, Inc.
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(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

November 15, 2012

Michael Wilson
Gaia Tech
3525 Piedmont Rd NE
Bldg 6, Suite 520
Atlanta, GA 30326

RE: Project: ECI Elon Facility
Pace Project No.: 92138031

Dear Michael Wilson:
Enclosed are the analytical results for sample(s) received by the laboratory on November 08, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: ECI Elon Facility
Pace Project No.: 92138031

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: ECI Elon Facility
Pace Project No.: 92138031

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92138031001	**ECIE-1112-MW1**	Water	11/06/12 13:30	11/08/12 15:10
92138031002	**ECIE-1112-MW2**	Water	11/06/12 15:00	11/08/12 15:10
92138031003	**ECIE-1112-MW3**	Water	11/06/12 16:15	11/08/12 15:10
92138031004	**ECIE-1112-MW4**	Water	11/06/12 18:00	11/08/12 15:10
92138031005	**ECIE-1112-MW5**	Water	11/06/12 19:30	11/08/12 15:10
92138031006	**ECIE-1112-MW6**	Water	11/07/12 09:00	11/08/12 15:10
92138031007	**ECIE-1112-GP2**	Water	11/07/12 12:00	11/08/12 15:10
92138031008	**TRIP BLANK**	Water	11/07/12 00:00	11/08/12 15:10

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Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: ECI Elon Facility
Pace Project No.: 92138031

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92138031001	**ECIE-1112-MW1**	EPA 8270	PPM	74	PASI-C
		EPA 8260	KJM	64	PASI-C
92138031002	**ECIE-1112-MW2**	EPA 8270	PPM	74	PASI-C
		EPA 8260	KJM	64	PASI-C
92138031003	**ECIE-1112-MW3**	EPA 8270	PPM	74	PASI-C
		EPA 8260	KJM	64	PASI-C
92138031004	**ECIE-1112-MW4**	EPA 8270	PPM	74	PASI-C
		EPA 8260	KJM	64	PASI-C
92138031005	**ECIE-1112-MW5**	EPA 8270	PPM	74	PASI-C
		EPA 8260	KJM	64	PASI-C
92138031006	**ECIE-1112-MW6**	EPA 6010	JMW	13	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8270	PPM	74	PASI-C
92138031007	**ECIE-1112-GP2**	EPA 5030/8015 Mod.	RGF	2	PASI-C
		EPA 8260	KJM	64	PASI-C
92138031008	**TRIP BLANK**	EPA 8260	KJM	64	PASI-C

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(704)875-9092

HITS ONLY

Project: ECI Elon Facility
Pace Project No.: 92138031

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92138031002	**ECIE-1112-MW2**					
EPA 8260	Tetrachloroethene	1.7	ug/L	1.0	11/12/12 20:40	
92138031004	**ECIE-1112-MW4**					
EPA 8260	Chloroform	13.3	ug/L	1.0	11/12/12 21:12	
92138031005	**ECIE-1112-MW5**					
EPA 8260	Trichloroethene	1.1	ug/L	1.0	11/12/12 21:28	
92138031006	**ECIE-1112-MW6**					
EPA 6010	Manganese	17.3	ug/L	5.0	11/12/12 21:18	
92138031007	**ECIE-1112-GP2**					
EPA 5030/8015 Mod.	Gasoline Range Organics	0.61	mg/L	0.080	11/14/12 05:09	
EPA 8260	Chloroform	2.6	ug/L	1.0	11/12/12 21:44	
EPA 8260	Tetrachloroethene	81.6	ug/L	1.0	11/12/12 21:44	
EPA 8260	Trichloroethene	1190	ug/L	10.0	11/14/12 02:32	

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PROJECT NARRATIVE

Project: ECI Elon Facility
Pace Project No.: 92138031

Method: **EPA 5030/8015 Mod.**
Description: Gasoline Range Organics
Client: Gaia Tech
Date: November 15, 2012

General Information:
1 sample was analyzed for EPA 5030/8015 Mod.. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: ECI Elon Facility
Pace Project No.: 92138031

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Gaia Tech
Date: November 15, 2012

General Information:
1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/11953

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92137380004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 870267)
  - Antimony

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: ECI Elon Facility
Pace Project No.: 92138031

Method: **EPA 7470**
Description: 7470 Mercury
Client: Gaia Tech
Date: November 15, 2012

General Information:
1 sample was analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: ECI Elon Facility
Pace Project No.: 92138031

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: Gaia Tech
Date: November 15, 2012

General Information:
6 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/19686

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92138031001

R1: RPD value was outside control limits.

- MSD (Lab ID: 870734)
  - Benzoic Acid
  - Hexachlorocyclopentadiene

Additional Comments:

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PROJECT NARRATIVE

Project: ECI Elon Facility
Pace Project No.: 92138031

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: Gaia Tech
Date: November 15, 2012

General Information:
7 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-MW1 **Lab ID: 92138031001** Collected: 11/06/12 13:30 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	10.0	0.25	1	11/12/12 16:00	11/13/12 16:56	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 16:56	208-96-8	
Aniline	ND	ug/L	10.0	2.0	1	11/12/12 16:00	11/13/12 16:56	62-53-3	
Anthracene	ND	ug/L	10.0	0.14	1	11/12/12 16:00	11/13/12 16:56	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	11/12/12 16:00	11/13/12 16:56	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	11/12/12 16:00	11/13/12 16:56	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	11/12/12 16:00	11/13/12 16:56	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	11/12/12 16:00	11/13/12 16:56	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	11/12/12 16:00	11/13/12 16:56	207-08-9	
Benzoic Acid	ND	ug/L	50.0	11.5	1	11/12/12 16:00	11/13/12 16:56	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	11/12/12 16:00	11/13/12 16:56	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	11/12/12 16:00	11/13/12 16:56	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	11/12/12 16:00	11/13/12 16:56	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	11/12/12 16:00	11/13/12 16:56	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	11/12/12 16:00	11/13/12 16:56	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	11/12/12 16:00	11/13/12 16:56	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	11/12/12 16:00	11/13/12 16:56	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	11/12/12 16:00	11/13/12 16:56	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 16:56	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	11/12/12 16:00	11/13/12 16:56	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	11/12/12 16:00	11/13/12 16:56	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 16:56	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	11/12/12 16:00	11/13/12 16:56	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.89	1	11/12/12 16:00	11/13/12 16:56	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.88	1	11/12/12 16:00	11/13/12 16:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.81	1	11/12/12 16:00	11/13/12 16:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.95	1	11/12/12 16:00	11/13/12 16:56	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	11/12/12 16:00	11/13/12 16:56	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	11/12/12 16:00	11/13/12 16:56	120-83-2	
Diethylphthalate	ND	ug/L	10.0	0.58	1	11/12/12 16:00	11/13/12 16:56	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	11/12/12 16:00	11/13/12 16:56	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	11/12/12 16:00	11/13/12 16:56	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	11/12/12 16:00	11/13/12 16:56	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.6	1	11/12/12 16:00	11/13/12 16:56	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	11/12/12 16:00	11/13/12 16:56	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	11/12/12 16:00	11/13/12 16:56	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 16:56	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	11/12/12 16:00	11/13/12 16:56	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.79	1	11/12/12 16:00	11/13/12 16:56	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 16:56	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 16:56	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	11/12/12 16:00	11/13/12 16:56	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	11/12/12 16:00	11/13/12 16:56	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	11/12/12 16:00	11/13/12 16:56	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	11/12/12 16:00	11/13/12 16:56	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	11/12/12 16:00	11/13/12 16:56	193-39-5	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-MW1 **Lab ID: 92138031001** Collected: 11/06/12 13:30 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Isophorone	ND	ug/L	10.0	0.89	1	11/12/12 16:00	11/13/12 16:56	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	0.32	1	11/12/12 16:00	11/13/12 16:56	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	11/12/12 16:00	11/13/12 16:56	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	11/12/12 16:00	11/13/12 16:56	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	11/12/12 16:00	11/13/12 16:56		
Naphthalene	ND	ug/L	10.0	0.34	1	11/12/12 16:00	11/13/12 16:56	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	11/12/12 16:00	11/13/12 16:56	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	11/12/12 16:00	11/13/12 16:56	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	11/12/12 16:00	11/13/12 16:56	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	11/12/12 16:00	11/13/12 16:56	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	11/12/12 16:00	11/13/12 16:56	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	11/12/12 16:00	11/13/12 16:56	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	11/12/12 16:00	11/13/12 16:56	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	11/12/12 16:00	11/13/12 16:56	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	11/12/12 16:00	11/13/12 16:56	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	11/12/12 16:00	11/13/12 16:56	87-86-5	
Phenanthrene	ND	ug/L	10.0	0.22	1	11/12/12 16:00	11/13/12 16:56	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	11/12/12 16:00	11/13/12 16:56	108-95-2	
Pyrene	ND	ug/L	10.0	0.19	1	11/12/12 16:00	11/13/12 16:56	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 16:56	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	11/12/12 16:00	11/13/12 16:56	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	11/12/12 16:00	11/13/12 16:56	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	66	%	21-110		1	11/12/12 16:00	11/13/12 16:56	4165-60-0	
2-Fluorobiphenyl (S)	72	%	27-110		1	11/12/12 16:00	11/13/12 16:56	321-60-8	
Terphenyl-d14 (S)	100	%	31-107		1	11/12/12 16:00	11/13/12 16:56	1718-51-0	
Phenol-d6 (S)	19	%	10-110		1	11/12/12 16:00	11/13/12 16:56	13127-88-3	
2-Fluorophenol (S)	32	%	12-110		1	11/12/12 16:00	11/13/12 16:56	367-12-4	
2,4,6-Tribromophenol (S)	71	%	27-110		1	11/12/12 16:00	11/13/12 16:56	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		11/12/12 20:24	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		11/12/12 20:24	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		11/12/12 20:24	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/12/12 20:24	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/12/12 20:24	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/12/12 20:24	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/12/12 20:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/12/12 20:24	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/12/12 20:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		11/12/12 20:24	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/12/12 20:24	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		11/12/12 20:24	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/12/12 20:24	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		11/12/12 20:24	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		11/12/12 20:24	106-43-4	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-MW1 **Lab ID: 92138031001** Collected: 11/06/12 13:30 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/12/12 20:24	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/12/12 20:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/12/12 20:24	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/12/12 20:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		11/12/12 20:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/12/12 20:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		11/12/12 20:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		11/12/12 20:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		11/12/12 20:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/12/12 20:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/12/12 20:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		11/12/12 20:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/12/12 20:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/12/12 20:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/12/12 20:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/12/12 20:24	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/12/12 20:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/12/12 20:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/12/12 20:24	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		11/12/12 20:24	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/12/12 20:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		11/12/12 20:24	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/12/12 20:24	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		11/12/12 20:24	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		11/12/12 20:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/12/12 20:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		11/12/12 20:24	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		11/12/12 20:24	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		11/12/12 20:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/12/12 20:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/12/12 20:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		11/12/12 20:24	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		11/12/12 20:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		11/12/12 20:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/12/12 20:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/12/12 20:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/12/12 20:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		11/12/12 20:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/12/12 20:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/12/12 20:24	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/12/12 20:24	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		11/12/12 20:24	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/12/12 20:24	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/12/12 20:24	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/12/12 20:24	95-47-6	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-MW1 **Lab ID: 92138031001** Collected: 11/06/12 13:30 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/12/12 20:24	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		11/12/12 20:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		11/12/12 20:24	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/12/12 20:24	2037-26-5	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-MW2 **Lab ID: 92138031002** Collected: 11/06/12 15:00 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	10.0	0.25	1	11/12/12 16:00	11/13/12 18:32	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 18:32	208-96-8	
Aniline	ND	ug/L	10.0	2.0	1	11/12/12 16:00	11/13/12 18:32	62-53-3	
Anthracene	ND	ug/L	10.0	0.14	1	11/12/12 16:00	11/13/12 18:32	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	11/12/12 16:00	11/13/12 18:32	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	11/12/12 16:00	11/13/12 18:32	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	11/12/12 16:00	11/13/12 18:32	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	11/12/12 16:00	11/13/12 18:32	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	11/12/12 16:00	11/13/12 18:32	207-08-9	
Benzoic Acid	ND	ug/L	50.0	11.5	1	11/12/12 16:00	11/13/12 18:32	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	11/12/12 16:00	11/13/12 18:32	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	11/12/12 16:00	11/13/12 18:32	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	11/12/12 16:00	11/13/12 18:32	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	11/12/12 16:00	11/13/12 18:32	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	11/12/12 16:00	11/13/12 18:32	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	11/12/12 16:00	11/13/12 18:32	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	11/12/12 16:00	11/13/12 18:32	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	11/12/12 16:00	11/13/12 18:32	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 18:32	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	11/12/12 16:00	11/13/12 18:32	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	11/12/12 16:00	11/13/12 18:32	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 18:32	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	11/12/12 16:00	11/13/12 18:32	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.89	1	11/12/12 16:00	11/13/12 18:32	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.88	1	11/12/12 16:00	11/13/12 18:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.81	1	11/12/12 16:00	11/13/12 18:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.95	1	11/12/12 16:00	11/13/12 18:32	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	11/12/12 16:00	11/13/12 18:32	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	11/12/12 16:00	11/13/12 18:32	120-83-2	
Diethylphthalate	ND	ug/L	10.0	0.58	1	11/12/12 16:00	11/13/12 18:32	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	11/12/12 16:00	11/13/12 18:32	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	11/12/12 16:00	11/13/12 18:32	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	11/12/12 16:00	11/13/12 18:32	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.6	1	11/12/12 16:00	11/13/12 18:32	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	11/12/12 16:00	11/13/12 18:32	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	11/12/12 16:00	11/13/12 18:32	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 18:32	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	11/12/12 16:00	11/13/12 18:32	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.79	1	11/12/12 16:00	11/13/12 18:32	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 18:32	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 18:32	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	11/12/12 16:00	11/13/12 18:32	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	11/12/12 16:00	11/13/12 18:32	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	11/12/12 16:00	11/13/12 18:32	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	11/12/12 16:00	11/13/12 18:32	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	11/12/12 16:00	11/13/12 18:32	193-39-5	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-MW2 **Lab ID: 92138031002** Collected: 11/06/12 15:00 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Isophorone	ND	ug/L	10.0	0.89	1	11/12/12 16:00	11/13/12 18:32	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	0.32	1	11/12/12 16:00	11/13/12 18:32	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	11/12/12 16:00	11/13/12 18:32	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	11/12/12 16:00	11/13/12 18:32	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	11/12/12 16:00	11/13/12 18:32		
Naphthalene	ND	ug/L	10.0	0.34	1	11/12/12 16:00	11/13/12 18:32	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	11/12/12 16:00	11/13/12 18:32	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	11/12/12 16:00	11/13/12 18:32	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	11/12/12 16:00	11/13/12 18:32	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	11/12/12 16:00	11/13/12 18:32	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	11/12/12 16:00	11/13/12 18:32	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	11/12/12 16:00	11/13/12 18:32	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	11/12/12 16:00	11/13/12 18:32	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	11/12/12 16:00	11/13/12 18:32	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	11/12/12 16:00	11/13/12 18:32	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	11/12/12 16:00	11/13/12 18:32	87-86-5	
Phenanthrene	ND	ug/L	10.0	0.22	1	11/12/12 16:00	11/13/12 18:32	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	11/12/12 16:00	11/13/12 18:32	108-95-2	
Pyrene	ND	ug/L	10.0	0.19	1	11/12/12 16:00	11/13/12 18:32	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 18:32	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	11/12/12 16:00	11/13/12 18:32	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	11/12/12 16:00	11/13/12 18:32	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	46	%	21-110		1	11/12/12 16:00	11/13/12 18:32	4165-60-0	
2-Fluorobiphenyl (S)	49	%	27-110		1	11/12/12 16:00	11/13/12 18:32	321-60-8	
Terphenyl-d14 (S)	102	%	31-107		1	11/12/12 16:00	11/13/12 18:32	1718-51-0	
Phenol-d6 (S)	13	%	10-110		1	11/12/12 16:00	11/13/12 18:32	13127-88-3	
2-Fluorophenol (S)	22	%	12-110		1	11/12/12 16:00	11/13/12 18:32	367-12-4	
2,4,6-Tribromophenol (S)	50	%	27-110		1	11/12/12 16:00	11/13/12 18:32	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		11/12/12 20:40	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		11/12/12 20:40	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		11/12/12 20:40	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/12/12 20:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/12/12 20:40	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/12/12 20:40	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/12/12 20:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/12/12 20:40	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/12/12 20:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		11/12/12 20:40	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/12/12 20:40	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		11/12/12 20:40	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/12/12 20:40	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		11/12/12 20:40	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		11/12/12 20:40	106-43-4	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-MW2 **Lab ID: 92138031002** Collected: 11/06/12 15:00 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/12/12 20:40	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/12/12 20:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/12/12 20:40	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/12/12 20:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		11/12/12 20:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/12/12 20:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		11/12/12 20:40	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		11/12/12 20:40	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		11/12/12 20:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/12/12 20:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/12/12 20:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		11/12/12 20:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/12/12 20:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/12/12 20:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/12/12 20:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/12/12 20:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/12/12 20:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/12/12 20:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/12/12 20:40	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		11/12/12 20:40	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/12/12 20:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		11/12/12 20:40	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/12/12 20:40	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		11/12/12 20:40	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		11/12/12 20:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/12/12 20:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		11/12/12 20:40	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		11/12/12 20:40	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		11/12/12 20:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/12/12 20:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/12/12 20:40	79-34-5	
Tetrachloroethene	**1.7**	ug/L	1.0	0.46	1		11/12/12 20:40	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		11/12/12 20:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		11/12/12 20:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/12/12 20:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/12/12 20:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/12/12 20:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		11/12/12 20:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/12/12 20:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/12/12 20:40	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/12/12 20:40	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		11/12/12 20:40	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/12/12 20:40	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/12/12 20:40	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/12/12 20:40	95-47-6	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-MW2 **Lab ID: 92138031002** Collected: 11/06/12 15:00 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/12/12 20:40	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		11/12/12 20:40	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		11/12/12 20:40	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		11/12/12 20:40	2037-26-5	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-MW3 **Lab ID: 92138031003** Collected: 11/06/12 16:15 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	10.0	0.25	1	11/12/12 16:00	11/13/12 19:04	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 19:04	208-96-8	
Aniline	ND	ug/L	10.0	2.0	1	11/12/12 16:00	11/13/12 19:04	62-53-3	
Anthracene	ND	ug/L	10.0	0.14	1	11/12/12 16:00	11/13/12 19:04	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	11/12/12 16:00	11/13/12 19:04	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	11/12/12 16:00	11/13/12 19:04	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	11/12/12 16:00	11/13/12 19:04	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	11/12/12 16:00	11/13/12 19:04	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	11/12/12 16:00	11/13/12 19:04	207-08-9	
Benzoic Acid	ND	ug/L	50.0	11.5	1	11/12/12 16:00	11/13/12 19:04	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	11/12/12 16:00	11/13/12 19:04	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	11/12/12 16:00	11/13/12 19:04	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	11/12/12 16:00	11/13/12 19:04	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	11/12/12 16:00	11/13/12 19:04	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	11/12/12 16:00	11/13/12 19:04	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	11/12/12 16:00	11/13/12 19:04	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	11/12/12 16:00	11/13/12 19:04	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	11/12/12 16:00	11/13/12 19:04	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 19:04	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	11/12/12 16:00	11/13/12 19:04	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	11/12/12 16:00	11/13/12 19:04	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 19:04	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	11/12/12 16:00	11/13/12 19:04	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.89	1	11/12/12 16:00	11/13/12 19:04	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.88	1	11/12/12 16:00	11/13/12 19:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.81	1	11/12/12 16:00	11/13/12 19:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.95	1	11/12/12 16:00	11/13/12 19:04	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	11/12/12 16:00	11/13/12 19:04	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	11/12/12 16:00	11/13/12 19:04	120-83-2	
Diethylphthalate	ND	ug/L	10.0	0.58	1	11/12/12 16:00	11/13/12 19:04	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	11/12/12 16:00	11/13/12 19:04	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	11/12/12 16:00	11/13/12 19:04	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	11/12/12 16:00	11/13/12 19:04	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.6	1	11/12/12 16:00	11/13/12 19:04	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	11/12/12 16:00	11/13/12 19:04	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	11/12/12 16:00	11/13/12 19:04	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 19:04	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	11/12/12 16:00	11/13/12 19:04	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.79	1	11/12/12 16:00	11/13/12 19:04	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 19:04	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 19:04	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	11/12/12 16:00	11/13/12 19:04	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	11/12/12 16:00	11/13/12 19:04	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	11/12/12 16:00	11/13/12 19:04	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	11/12/12 16:00	11/13/12 19:04	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	11/12/12 16:00	11/13/12 19:04	193-39-5	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-MW3 **Lab ID: 92138031003** Collected: 11/06/12 16:15 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Isophorone	ND	ug/L	10.0	0.89	1	11/12/12 16:00	11/13/12 19:04	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	0.32	1	11/12/12 16:00	11/13/12 19:04	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	11/12/12 16:00	11/13/12 19:04	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	11/12/12 16:00	11/13/12 19:04	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	11/12/12 16:00	11/13/12 19:04		
Naphthalene	ND	ug/L	10.0	0.34	1	11/12/12 16:00	11/13/12 19:04	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	11/12/12 16:00	11/13/12 19:04	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	11/12/12 16:00	11/13/12 19:04	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	11/12/12 16:00	11/13/12 19:04	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	11/12/12 16:00	11/13/12 19:04	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	11/12/12 16:00	11/13/12 19:04	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	11/12/12 16:00	11/13/12 19:04	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	11/12/12 16:00	11/13/12 19:04	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	11/12/12 16:00	11/13/12 19:04	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	11/12/12 16:00	11/13/12 19:04	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	11/12/12 16:00	11/13/12 19:04	87-86-5	
Phenanthrene	ND	ug/L	10.0	0.22	1	11/12/12 16:00	11/13/12 19:04	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	11/12/12 16:00	11/13/12 19:04	108-95-2	
Pyrene	ND	ug/L	10.0	0.19	1	11/12/12 16:00	11/13/12 19:04	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 19:04	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	11/12/12 16:00	11/13/12 19:04	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	11/12/12 16:00	11/13/12 19:04	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	61	%	21-110		1	11/12/12 16:00	11/13/12 19:04	4165-60-0	
2-Fluorobiphenyl (S)	66	%	27-110		1	11/12/12 16:00	11/13/12 19:04	321-60-8	
Terphenyl-d14 (S)	95	%	31-107		1	11/12/12 16:00	11/13/12 19:04	1718-51-0	
Phenol-d6 (S)	18	%	10-110		1	11/12/12 16:00	11/13/12 19:04	13127-88-3	
2-Fluorophenol (S)	29	%	12-110		1	11/12/12 16:00	11/13/12 19:04	367-12-4	
2,4,6-Tribromophenol (S)	79	%	27-110		1	11/12/12 16:00	11/13/12 19:04	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		11/12/12 20:56	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		11/12/12 20:56	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		11/12/12 20:56	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/12/12 20:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/12/12 20:56	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/12/12 20:56	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/12/12 20:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/12/12 20:56	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/12/12 20:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		11/12/12 20:56	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/12/12 20:56	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		11/12/12 20:56	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/12/12 20:56	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		11/12/12 20:56	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		11/12/12 20:56	106-43-4	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-MW3 **Lab ID: 92138031003** Collected: 11/06/12 16:15 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/12/12 20:56	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/12/12 20:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/12/12 20:56	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/12/12 20:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		11/12/12 20:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/12/12 20:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		11/12/12 20:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		11/12/12 20:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		11/12/12 20:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/12/12 20:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/12/12 20:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		11/12/12 20:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/12/12 20:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/12/12 20:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/12/12 20:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/12/12 20:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/12/12 20:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/12/12 20:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/12/12 20:56	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		11/12/12 20:56	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/12/12 20:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		11/12/12 20:56	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/12/12 20:56	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		11/12/12 20:56	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		11/12/12 20:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/12/12 20:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		11/12/12 20:56	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		11/12/12 20:56	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		11/12/12 20:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/12/12 20:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/12/12 20:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		11/12/12 20:56	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		11/12/12 20:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		11/12/12 20:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/12/12 20:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/12/12 20:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/12/12 20:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		11/12/12 20:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/12/12 20:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/12/12 20:56	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/12/12 20:56	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		11/12/12 20:56	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/12/12 20:56	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/12/12 20:56	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/12/12 20:56	95-47-6	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-MW3 **Lab ID: 92138031003** Collected: 11/06/12 16:15 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/12/12 20:56	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		11/12/12 20:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		11/12/12 20:56	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		11/12/12 20:56	2037-26-5	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-MW4 **Lab ID: 92138031004** Collected: 11/06/12 18:00 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	10.0	0.25	1	11/12/12 16:00	11/13/12 19:36	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 19:36	208-96-8	
Aniline	ND	ug/L	10.0	2.0	1	11/12/12 16:00	11/13/12 19:36	62-53-3	
Anthracene	ND	ug/L	10.0	0.14	1	11/12/12 16:00	11/13/12 19:36	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	11/12/12 16:00	11/13/12 19:36	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	11/12/12 16:00	11/13/12 19:36	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	11/12/12 16:00	11/13/12 19:36	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	11/12/12 16:00	11/13/12 19:36	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	11/12/12 16:00	11/13/12 19:36	207-08-9	
Benzoic Acid	ND	ug/L	50.0	11.5	1	11/12/12 16:00	11/13/12 19:36	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	11/12/12 16:00	11/13/12 19:36	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	11/12/12 16:00	11/13/12 19:36	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	11/12/12 16:00	11/13/12 19:36	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	11/12/12 16:00	11/13/12 19:36	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	11/12/12 16:00	11/13/12 19:36	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	11/12/12 16:00	11/13/12 19:36	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	11/12/12 16:00	11/13/12 19:36	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	11/12/12 16:00	11/13/12 19:36	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 19:36	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	11/12/12 16:00	11/13/12 19:36	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	11/12/12 16:00	11/13/12 19:36	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 19:36	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	11/12/12 16:00	11/13/12 19:36	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.89	1	11/12/12 16:00	11/13/12 19:36	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.88	1	11/12/12 16:00	11/13/12 19:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.81	1	11/12/12 16:00	11/13/12 19:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.95	1	11/12/12 16:00	11/13/12 19:36	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	11/12/12 16:00	11/13/12 19:36	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	11/12/12 16:00	11/13/12 19:36	120-83-2	
Diethylphthalate	ND	ug/L	10.0	0.58	1	11/12/12 16:00	11/13/12 19:36	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	11/12/12 16:00	11/13/12 19:36	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	11/12/12 16:00	11/13/12 19:36	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	11/12/12 16:00	11/13/12 19:36	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.6	1	11/12/12 16:00	11/13/12 19:36	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	11/12/12 16:00	11/13/12 19:36	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	11/12/12 16:00	11/13/12 19:36	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 19:36	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	11/12/12 16:00	11/13/12 19:36	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.79	1	11/12/12 16:00	11/13/12 19:36	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 19:36	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 19:36	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	11/12/12 16:00	11/13/12 19:36	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	11/12/12 16:00	11/13/12 19:36	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	11/12/12 16:00	11/13/12 19:36	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	11/12/12 16:00	11/13/12 19:36	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	11/12/12 16:00	11/13/12 19:36	193-39-5	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-MW4 **Lab ID: 92138031004** Collected: 11/06/12 18:00 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Isophorone	ND	ug/L	10.0	0.89	1	11/12/12 16:00	11/13/12 19:36	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	0.32	1	11/12/12 16:00	11/13/12 19:36	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	11/12/12 16:00	11/13/12 19:36	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	11/12/12 16:00	11/13/12 19:36	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	11/12/12 16:00	11/13/12 19:36		
Naphthalene	ND	ug/L	10.0	0.34	1	11/12/12 16:00	11/13/12 19:36	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	11/12/12 16:00	11/13/12 19:36	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	11/12/12 16:00	11/13/12 19:36	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	11/12/12 16:00	11/13/12 19:36	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	11/12/12 16:00	11/13/12 19:36	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	11/12/12 16:00	11/13/12 19:36	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	11/12/12 16:00	11/13/12 19:36	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	11/12/12 16:00	11/13/12 19:36	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	11/12/12 16:00	11/13/12 19:36	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	11/12/12 16:00	11/13/12 19:36	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	11/12/12 16:00	11/13/12 19:36	87-86-5	
Phenanthrene	ND	ug/L	10.0	0.22	1	11/12/12 16:00	11/13/12 19:36	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	11/12/12 16:00	11/13/12 19:36	108-95-2	
Pyrene	ND	ug/L	10.0	0.19	1	11/12/12 16:00	11/13/12 19:36	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 19:36	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	11/12/12 16:00	11/13/12 19:36	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	11/12/12 16:00	11/13/12 19:36	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	64	%	21-110		1	11/12/12 16:00	11/13/12 19:36	4165-60-0	
2-Fluorobiphenyl (S)	74	%	27-110		1	11/12/12 16:00	11/13/12 19:36	321-60-8	
Terphenyl-d14 (S)	85	%	31-107		1	11/12/12 16:00	11/13/12 19:36	1718-51-0	
Phenol-d6 (S)	17	%	10-110		1	11/12/12 16:00	11/13/12 19:36	13127-88-3	
2-Fluorophenol (S)	30	%	12-110		1	11/12/12 16:00	11/13/12 19:36	367-12-4	
2,4,6-Tribromophenol (S)	77	%	27-110		1	11/12/12 16:00	11/13/12 19:36	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		11/12/12 21:12	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		11/12/12 21:12	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		11/12/12 21:12	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/12/12 21:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/12/12 21:12	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/12/12 21:12	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/12/12 21:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/12/12 21:12	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/12/12 21:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		11/12/12 21:12	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/12/12 21:12	75-00-3	
Chloroform	**13.3**	ug/L	1.0	0.14	1		11/12/12 21:12	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/12/12 21:12	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		11/12/12 21:12	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		11/12/12 21:12	106-43-4	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-MW4 **Lab ID: 92138031004** Collected: 11/06/12 18:00 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/12/12 21:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/12/12 21:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/12/12 21:12	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/12/12 21:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		11/12/12 21:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/12/12 21:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		11/12/12 21:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		11/12/12 21:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		11/12/12 21:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/12/12 21:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/12/12 21:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		11/12/12 21:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/12/12 21:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/12/12 21:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/12/12 21:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/12/12 21:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/12/12 21:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/12/12 21:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/12/12 21:12	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		11/12/12 21:12	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/12/12 21:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		11/12/12 21:12	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/12/12 21:12	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		11/12/12 21:12	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		11/12/12 21:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/12/12 21:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		11/12/12 21:12	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		11/12/12 21:12	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		11/12/12 21:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/12/12 21:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/12/12 21:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		11/12/12 21:12	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		11/12/12 21:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		11/12/12 21:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/12/12 21:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/12/12 21:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/12/12 21:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		11/12/12 21:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/12/12 21:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/12/12 21:12	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/12/12 21:12	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		11/12/12 21:12	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/12/12 21:12	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/12/12 21:12	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/12/12 21:12	95-47-6	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-MW4 **Lab ID: 92138031004** Collected: 11/06/12 18:00 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/12/12 21:12	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		11/12/12 21:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		11/12/12 21:12	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		11/12/12 21:12	2037-26-5	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-MW5 **Lab ID: 92138031005** Collected: 11/06/12 19:30 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	10.0	0.25	1	11/12/12 16:00	11/13/12 20:08	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 20:08	208-96-8	
Aniline	ND	ug/L	10.0	2.0	1	11/12/12 16:00	11/13/12 20:08	62-53-3	
Anthracene	ND	ug/L	10.0	0.14	1	11/12/12 16:00	11/13/12 20:08	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	11/12/12 16:00	11/13/12 20:08	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	11/12/12 16:00	11/13/12 20:08	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	11/12/12 16:00	11/13/12 20:08	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	11/12/12 16:00	11/13/12 20:08	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	11/12/12 16:00	11/13/12 20:08	207-08-9	
Benzoic Acid	ND	ug/L	50.0	11.5	1	11/12/12 16:00	11/13/12 20:08	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	11/12/12 16:00	11/13/12 20:08	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	11/12/12 16:00	11/13/12 20:08	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	11/12/12 16:00	11/13/12 20:08	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	11/12/12 16:00	11/13/12 20:08	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	11/12/12 16:00	11/13/12 20:08	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	11/12/12 16:00	11/13/12 20:08	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	11/12/12 16:00	11/13/12 20:08	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	11/12/12 16:00	11/13/12 20:08	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 20:08	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	11/12/12 16:00	11/13/12 20:08	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	11/12/12 16:00	11/13/12 20:08	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 20:08	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	11/12/12 16:00	11/13/12 20:08	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.89	1	11/12/12 16:00	11/13/12 20:08	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.88	1	11/12/12 16:00	11/13/12 20:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.81	1	11/12/12 16:00	11/13/12 20:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.95	1	11/12/12 16:00	11/13/12 20:08	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	11/12/12 16:00	11/13/12 20:08	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	11/12/12 16:00	11/13/12 20:08	120-83-2	
Diethylphthalate	ND	ug/L	10.0	0.58	1	11/12/12 16:00	11/13/12 20:08	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	11/12/12 16:00	11/13/12 20:08	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	11/12/12 16:00	11/13/12 20:08	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	11/12/12 16:00	11/13/12 20:08	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.6	1	11/12/12 16:00	11/13/12 20:08	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	11/12/12 16:00	11/13/12 20:08	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	11/12/12 16:00	11/13/12 20:08	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 20:08	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	11/12/12 16:00	11/13/12 20:08	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.79	1	11/12/12 16:00	11/13/12 20:08	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 20:08	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 20:08	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	11/12/12 16:00	11/13/12 20:08	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	11/12/12 16:00	11/13/12 20:08	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	11/12/12 16:00	11/13/12 20:08	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	11/12/12 16:00	11/13/12 20:08	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	11/12/12 16:00	11/13/12 20:08	193-39-5	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-MW5 **Lab ID: 92138031005** Collected: 11/06/12 19:30 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Isophorone	ND	ug/L	10.0	0.89	1	11/12/12 16:00	11/13/12 20:08	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	0.32	1	11/12/12 16:00	11/13/12 20:08	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	11/12/12 16:00	11/13/12 20:08	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	11/12/12 16:00	11/13/12 20:08	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	11/12/12 16:00	11/13/12 20:08		
Naphthalene	ND	ug/L	10.0	0.34	1	11/12/12 16:00	11/13/12 20:08	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	11/12/12 16:00	11/13/12 20:08	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	11/12/12 16:00	11/13/12 20:08	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	11/12/12 16:00	11/13/12 20:08	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	11/12/12 16:00	11/13/12 20:08	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	11/12/12 16:00	11/13/12 20:08	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	11/12/12 16:00	11/13/12 20:08	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	11/12/12 16:00	11/13/12 20:08	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	11/12/12 16:00	11/13/12 20:08	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	11/12/12 16:00	11/13/12 20:08	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	11/12/12 16:00	11/13/12 20:08	87-86-5	
Phenanthrene	ND	ug/L	10.0	0.22	1	11/12/12 16:00	11/13/12 20:08	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	11/12/12 16:00	11/13/12 20:08	108-95-2	
Pyrene	ND	ug/L	10.0	0.19	1	11/12/12 16:00	11/13/12 20:08	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 20:08	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	11/12/12 16:00	11/13/12 20:08	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	11/12/12 16:00	11/13/12 20:08	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	44	%	21-110		1	11/12/12 16:00	11/13/12 20:08	4165-60-0	
2-Fluorobiphenyl (S)	49	%	27-110		1	11/12/12 16:00	11/13/12 20:08	321-60-8	
Terphenyl-d14 (S)	86	%	31-107		1	11/12/12 16:00	11/13/12 20:08	1718-51-0	
Phenol-d6 (S)	12	%	10-110		1	11/12/12 16:00	11/13/12 20:08	13127-88-3	
2-Fluorophenol (S)	21	%	12-110		1	11/12/12 16:00	11/13/12 20:08	367-12-4	
2,4,6-Tribromophenol (S)	48	%	27-110		1	11/12/12 16:00	11/13/12 20:08	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		11/12/12 21:28	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		11/12/12 21:28	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		11/12/12 21:28	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/12/12 21:28	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/12/12 21:28	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/12/12 21:28	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/12/12 21:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/12/12 21:28	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/12/12 21:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		11/12/12 21:28	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/12/12 21:28	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		11/12/12 21:28	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/12/12 21:28	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		11/12/12 21:28	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		11/12/12 21:28	106-43-4	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-MW5 **Lab ID: 92138031005** Collected: 11/06/12 19:30 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/12/12 21:28	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/12/12 21:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/12/12 21:28	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/12/12 21:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		11/12/12 21:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/12/12 21:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		11/12/12 21:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		11/12/12 21:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		11/12/12 21:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/12/12 21:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/12/12 21:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		11/12/12 21:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/12/12 21:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/12/12 21:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/12/12 21:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/12/12 21:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/12/12 21:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/12/12 21:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/12/12 21:28	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		11/12/12 21:28	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/12/12 21:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		11/12/12 21:28	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/12/12 21:28	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		11/12/12 21:28	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		11/12/12 21:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/12/12 21:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		11/12/12 21:28	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		11/12/12 21:28	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		11/12/12 21:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/12/12 21:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/12/12 21:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		11/12/12 21:28	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		11/12/12 21:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		11/12/12 21:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/12/12 21:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/12/12 21:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/12/12 21:28	79-00-5	
Trichloroethene	**1.1**	ug/L	1.0	0.47	1		11/12/12 21:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/12/12 21:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/12/12 21:28	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/12/12 21:28	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		11/12/12 21:28	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/12/12 21:28	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/12/12 21:28	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/12/12 21:28	95-47-6	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-MW5 **Lab ID: 92138031005** Collected: 11/06/12 19:30 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/12/12 21:28	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		11/12/12 21:28	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		11/12/12 21:28	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		11/12/12 21:28	2037-26-5	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-MW6 **Lab ID: 92138031006** Collected: 11/07/12 09:00 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	5.0	2.6	1	11/10/12 12:45	11/12/12 21:18	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	11/10/12 12:45	11/12/12 21:18	7440-38-2	
Beryllium	ND	ug/L	1.0	0.50	1	11/10/12 12:45	11/12/12 21:18	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	11/10/12 12:45	11/12/12 21:18	7440-43-9	
Chromium	ND	ug/L	5.0	2.0	1	11/10/12 12:45	11/12/12 21:18	7440-47-3	
Copper	ND	ug/L	5.0	2.0	1	11/10/12 12:45	11/12/12 21:18	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	11/10/12 12:45	11/12/12 21:18	7439-92-1	
Manganese	**17.3**	ug/L	5.0	2.5	1	11/10/12 12:45	11/12/12 21:18	7439-96-5	
Nickel	ND	ug/L	5.0	2.5	1	11/10/12 12:45	11/12/12 21:18	7440-02-0	
Selenium	ND	ug/L	10.0	5.0	1	11/10/12 12:45	11/12/12 21:18	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	11/10/12 12:45	11/12/12 21:18	7440-22-4	
Thallium	ND	ug/L	10.0	5.0	1	11/10/12 12:45	11/12/12 21:18	7440-28-0	
Zinc	ND	ug/L	10.0	5.0	1	11/10/12 12:45	11/12/12 21:18	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	11/12/12 15:40	11/13/12 11:29	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270		Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	10.0	0.25	1	11/12/12 16:00	11/13/12 20:41	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 20:41	208-96-8	
Aniline	ND	ug/L	10.0	2.0	1	11/12/12 16:00	11/13/12 20:41	62-53-3	
Anthracene	ND	ug/L	10.0	0.14	1	11/12/12 16:00	11/13/12 20:41	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	11/12/12 16:00	11/13/12 20:41	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	11/12/12 16:00	11/13/12 20:41	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	11/12/12 16:00	11/13/12 20:41	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	11/12/12 16:00	11/13/12 20:41	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	11/12/12 16:00	11/13/12 20:41	207-08-9	
Benzoic Acid	ND	ug/L	50.0	11.5	1	11/12/12 16:00	11/13/12 20:41	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	11/12/12 16:00	11/13/12 20:41	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	11/12/12 16:00	11/13/12 20:41	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	11/12/12 16:00	11/13/12 20:41	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	11/12/12 16:00	11/13/12 20:41	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	11/12/12 16:00	11/13/12 20:41	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	11/12/12 16:00	11/13/12 20:41	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	11/12/12 16:00	11/13/12 20:41	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	11/12/12 16:00	11/13/12 20:41	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 20:41	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	11/12/12 16:00	11/13/12 20:41	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	11/12/12 16:00	11/13/12 20:41	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 20:41	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	11/12/12 16:00	11/13/12 20:41	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.89	1	11/12/12 16:00	11/13/12 20:41	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.88	1	11/12/12 16:00	11/13/12 20:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.81	1	11/12/12 16:00	11/13/12 20:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.95	1	11/12/12 16:00	11/13/12 20:41	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	11/12/12 16:00	11/13/12 20:41	91-94-1	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-MW6 **Lab ID: 92138031006** Collected: 11/07/12 09:00 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	11/12/12 16:00	11/13/12 20:41	120-83-2	
Diethylphthalate	ND	ug/L	10.0	0.58	1	11/12/12 16:00	11/13/12 20:41	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	11/12/12 16:00	11/13/12 20:41	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	11/12/12 16:00	11/13/12 20:41	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	11/12/12 16:00	11/13/12 20:41	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.6	1	11/12/12 16:00	11/13/12 20:41	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	11/12/12 16:00	11/13/12 20:41	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	11/12/12 16:00	11/13/12 20:41	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 20:41	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	11/12/12 16:00	11/13/12 20:41	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.79	1	11/12/12 16:00	11/13/12 20:41	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 20:41	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 20:41	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	11/12/12 16:00	11/13/12 20:41	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	11/12/12 16:00	11/13/12 20:41	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	11/12/12 16:00	11/13/12 20:41	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	11/12/12 16:00	11/13/12 20:41	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	11/12/12 16:00	11/13/12 20:41	193-39-5	
Isophorone	ND	ug/L	10.0	0.89	1	11/12/12 16:00	11/13/12 20:41	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	0.32	1	11/12/12 16:00	11/13/12 20:41	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	11/12/12 16:00	11/13/12 20:41	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	11/12/12 16:00	11/13/12 20:41	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	11/12/12 16:00	11/13/12 20:41		
Naphthalene	ND	ug/L	10.0	0.34	1	11/12/12 16:00	11/13/12 20:41	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	11/12/12 16:00	11/13/12 20:41	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	11/12/12 16:00	11/13/12 20:41	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	11/12/12 16:00	11/13/12 20:41	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	11/12/12 16:00	11/13/12 20:41	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	11/12/12 16:00	11/13/12 20:41	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	11/12/12 16:00	11/13/12 20:41	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	11/12/12 16:00	11/13/12 20:41	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	11/12/12 16:00	11/13/12 20:41	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	11/12/12 16:00	11/13/12 20:41	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	11/12/12 16:00	11/13/12 20:41	87-86-5	
Phenanthrene	ND	ug/L	10.0	0.22	1	11/12/12 16:00	11/13/12 20:41	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	11/12/12 16:00	11/13/12 20:41	108-95-2	
Pyrene	ND	ug/L	10.0	0.19	1	11/12/12 16:00	11/13/12 20:41	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 20:41	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	11/12/12 16:00	11/13/12 20:41	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	11/12/12 16:00	11/13/12 20:41	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	44	%	21-110		1	11/12/12 16:00	11/13/12 20:41	4165-60-0	
2-Fluorobiphenyl (S)	49	%	27-110		1	11/12/12 16:00	11/13/12 20:41	321-60-8	
Terphenyl-d14 (S)	77	%	31-107		1	11/12/12 16:00	11/13/12 20:41	1718-51-0	
Phenol-d6 (S)	13	%	10-110		1	11/12/12 16:00	11/13/12 20:41	13127-88-3	
2-Fluorophenol (S)	22	%	12-110		1	11/12/12 16:00	11/13/12 20:41	367-12-4	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-MW6 **Lab ID: 92138031006** Collected: 11/07/12 09:00 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Surrogates									
2,4,6-Tribromophenol (S)	42	%	27-110		1	11/12/12 16:00	11/13/12 20:41	118-79-6	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-GP2 **Lab ID: 92138031007** Collected: 11/07/12 12:00 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030/8015 Mod.								
Gasoline Range Organics	**0.61**	mg/L	0.080	0.014	1		11/14/12 05:09	8006-61-9	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-145		1		11/14/12 05:09	460-00-4	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		11/12/12 21:44	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		11/12/12 21:44	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		11/12/12 21:44	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/12/12 21:44	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/12/12 21:44	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/12/12 21:44	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/12/12 21:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/12/12 21:44	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/12/12 21:44	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		11/12/12 21:44	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/12/12 21:44	75-00-3	
Chloroform	**2.6**	ug/L	1.0	0.14	1		11/12/12 21:44	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/12/12 21:44	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		11/12/12 21:44	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		11/12/12 21:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/12/12 21:44	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/12/12 21:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/12/12 21:44	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/12/12 21:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		11/12/12 21:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/12/12 21:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		11/12/12 21:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		11/12/12 21:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		11/12/12 21:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/12/12 21:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/12/12 21:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		11/12/12 21:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/12/12 21:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/12/12 21:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/12/12 21:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/12/12 21:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/12/12 21:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/12/12 21:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/12/12 21:44	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		11/12/12 21:44	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/12/12 21:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		11/12/12 21:44	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/12/12 21:44	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		11/12/12 21:44	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		11/12/12 21:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/12/12 21:44	108-10-1	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: ECIE-1112-GP2 **Lab ID: 92138031007** Collected: 11/07/12 12:00 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		11/12/12 21:44	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		11/12/12 21:44	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		11/12/12 21:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/12/12 21:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/12/12 21:44	79-34-5	
Tetrachloroethene	**81.6**	ug/L	1.0	0.46	1		11/12/12 21:44	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		11/12/12 21:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		11/12/12 21:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/12/12 21:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/12/12 21:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/12/12 21:44	79-00-5	
Trichloroethene	**1190**	ug/L	10.0	4.7	10		11/14/12 02:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/12/12 21:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/12/12 21:44	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/12/12 21:44	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		11/12/12 21:44	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/12/12 21:44	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/12/12 21:44	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/12/12 21:44	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/12/12 21:44	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		11/12/12 21:44	1868-53-7	
1,2-Dichloroethane-d4 (S)	112	%	70-130		1		11/12/12 21:44	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/12/12 21:44	2037-26-5	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: TRIP BLANK **Lab ID: 92138031008** Collected: 11/07/12 00:00 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		11/12/12 20:09	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		11/12/12 20:09	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		11/12/12 20:09	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/12/12 20:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/12/12 20:09	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/12/12 20:09	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/12/12 20:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/12/12 20:09	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/12/12 20:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		11/12/12 20:09	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/12/12 20:09	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		11/12/12 20:09	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/12/12 20:09	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		11/12/12 20:09	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		11/12/12 20:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/12/12 20:09	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/12/12 20:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/12/12 20:09	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/12/12 20:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		11/12/12 20:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/12/12 20:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		11/12/12 20:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		11/12/12 20:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		11/12/12 20:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/12/12 20:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/12/12 20:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		11/12/12 20:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/12/12 20:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/12/12 20:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/12/12 20:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/12/12 20:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/12/12 20:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/12/12 20:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/12/12 20:09	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		11/12/12 20:09	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/12/12 20:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		11/12/12 20:09	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/12/12 20:09	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		11/12/12 20:09	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		11/12/12 20:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/12/12 20:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		11/12/12 20:09	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		11/12/12 20:09	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		11/12/12 20:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/12/12 20:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/12/12 20:09	79-34-5	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138031

Sample: TRIP BLANK **Lab ID: 92138031008** Collected: 11/07/12 00:00 Received: 11/08/12 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	ND	ug/L	1.0	0.46	1		11/12/12 20:09	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		11/12/12 20:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		11/12/12 20:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/12/12 20:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/12/12 20:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/12/12 20:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		11/12/12 20:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/12/12 20:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/12/12 20:09	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/12/12 20:09	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		11/12/12 20:09	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/12/12 20:09	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/12/12 20:09	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/12/12 20:09	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/12/12 20:09	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		11/12/12 20:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		11/12/12 20:09	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		11/12/12 20:09	2037-26-5	

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138031

QC Batch: GCV/6400
QC Batch Method: EPA 5030/8015 Mod.
Analysis Method: EPA 5030/8015 Mod.
Analysis Description: Gasoline Range Organics
Associated Lab Samples: 92138031007

METHOD BLANK: 870350
Matrix: Water
Associated Lab Samples: 92138031007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/L	ND	0.080	11/13/12 23:02	
4-Bromofluorobenzene (S)	%	89	70-145	11/13/12 23:02	

LABORATORY CONTROL SAMPLE: 870351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/L	.5	0.48	96	70-150	
4-Bromofluorobenzene (S)	%			84	70-145	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 870352 870353

Parameter	Units	92137276001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Gasoline Range Organics	mg/L	ND	.5	.5	0.52	0.51	104	102	70-150	2	30	
4-Bromofluorobenzene (S)	%						83	89	70-145			

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138031

QC Batch: MERP/4671
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 92138031006

METHOD BLANK: 870431
Matrix: Water
Associated Lab Samples: 92138031006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	11/13/12 11:24	

LABORATORY CONTROL SAMPLE: 870432

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.3	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 870433 870434

Parameter	Units	92138031006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.4	2.2	94	86	75-125	9	25	

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138031

QC Batch: MPRP/11953
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 92138031006

METHOD BLANK: 870265
Matrix: Water
Associated Lab Samples: 92138031006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	11/12/12 19:53	
Arsenic	ug/L	ND	5.0	11/12/12 19:53	
Beryllium	ug/L	ND	1.0	11/12/12 19:53	
Cadmium	ug/L	ND	1.0	11/12/12 19:53	
Chromium	ug/L	ND	5.0	11/12/12 19:53	
Copper	ug/L	ND	5.0	11/12/12 19:53	
Lead	ug/L	ND	5.0	11/12/12 19:53	
Manganese	ug/L	ND	5.0	11/12/12 19:53	
Nickel	ug/L	ND	5.0	11/12/12 19:53	
Selenium	ug/L	ND	10.0	11/12/12 19:53	
Silver	ug/L	ND	5.0	11/12/12 19:53	
Thallium	ug/L	ND	10.0	11/12/12 19:53	
Zinc	ug/L	ND	10.0	11/12/12 19:53	

LABORATORY CONTROL SAMPLE: 870266

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	508	102	80-120	
Arsenic	ug/L	500	502	100	80-120	
Beryllium	ug/L	500	517	103	80-120	
Cadmium	ug/L	500	513	103	80-120	
Chromium	ug/L	500	504	101	80-120	
Copper	ug/L	500	493	99	80-120	
Lead	ug/L	500	503	101	80-120	
Manganese	ug/L	500	503	101	80-120	
Nickel	ug/L	500	509	102	80-120	
Selenium	ug/L	500	503	101	80-120	
Silver	ug/L	250	248	99	80-120	
Thallium	ug/L	500	488	98	80-120	
Zinc	ug/L	500	512	102	80-120	

MATRIX SPIKE SAMPLE: 870267

Parameter	Units	92137380004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	259	52	75-125	M1
Arsenic	ug/L	26.4	500	505	96	75-125	
Beryllium	ug/L	2.0	500	492	98	75-125	
Cadmium	ug/L	ND	500	471	94	75-125	
Chromium	ug/L	160	500	659	100	75-125	
Copper	ug/L	35.2	500	535	100	75-125	

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138031

MATRIX SPIKE SAMPLE: 870267

Parameter	Units	92137380004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	112	500	553	88	75-125	
Manganese	ug/L	97.0	500	572	95	75-125	
Nickel	ug/L	14.0	500	487	95	75-125	
Selenium	ug/L	ND	500	465	93	75-125	
Silver	ug/L	ND	250	237	95	75-125	
Thallium	ug/L	ND	500	419	84	75-125	
Zinc	ug/L	67.9	500	568	100	75-125	

SAMPLE DUPLICATE: 870268

Parameter	Units	92137461001 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		20	
Arsenic	ug/L	ND	ND		20	
Beryllium	ug/L	ND	ND		20	
Cadmium	ug/L	ND	ND		20	
Chromium	ug/L	ND	ND		20	
Copper	ug/L	ND	ND		20	
Lead	ug/L	ND	ND		20	
Manganese	ug/L	17.7	17.9	1	20	
Nickel	ug/L	ND	ND		20	
Selenium	ug/L	ND	ND		20	
Silver	ug/L	ND	ND		20	
Thallium	ug/L	ND	ND		20	
Zinc	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138031

QC Batch: MSV/21054 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92138031001, 92138031002, 92138031003, 92138031004, 92138031005, 92138031007, 92138031008

METHOD BLANK: 869746 Matrix: Water
Associated Lab Samples: 92138031001, 92138031002, 92138031003, 92138031004, 92138031005, 92138031007, 92138031008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/12/12 12:45	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/12/12 12:45	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/12/12 12:45	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/12/12 12:45	
1,1-Dichloroethane	ug/L	ND	1.0	11/12/12 12:45	
1,1-Dichloroethene	ug/L	ND	1.0	11/12/12 12:45	
1,1-Dichloropropene	ug/L	ND	1.0	11/12/12 12:45	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/12/12 12:45	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/12/12 12:45	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/12/12 12:45	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	11/12/12 12:45	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/12/12 12:45	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/12/12 12:45	
1,2-Dichloroethane	ug/L	ND	1.0	11/12/12 12:45	
1,2-Dichloropropane	ug/L	ND	1.0	11/12/12 12:45	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/12/12 12:45	
1,3-Dichloropropane	ug/L	ND	1.0	11/12/12 12:45	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/12/12 12:45	
2,2-Dichloropropane	ug/L	ND	1.0	11/12/12 12:45	
2-Butanone (MEK)	ug/L	ND	5.0	11/12/12 12:45	
2-Chlorotoluene	ug/L	ND	1.0	11/12/12 12:45	
2-Hexanone	ug/L	ND	5.0	11/12/12 12:45	
4-Chlorotoluene	ug/L	ND	1.0	11/12/12 12:45	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/12/12 12:45	
Acetone	ug/L	ND	25.0	11/12/12 12:45	
Benzene	ug/L	ND	1.0	11/12/12 12:45	
Bromobenzene	ug/L	ND	1.0	11/12/12 12:45	
Bromochloromethane	ug/L	ND	1.0	11/12/12 12:45	
Bromodichloromethane	ug/L	ND	1.0	11/12/12 12:45	
Bromoform	ug/L	ND	1.0	11/12/12 12:45	
Bromomethane	ug/L	ND	2.0	11/12/12 12:45	
Carbon tetrachloride	ug/L	ND	1.0	11/12/12 12:45	
Chlorobenzene	ug/L	ND	1.0	11/12/12 12:45	
Chloroethane	ug/L	ND	1.0	11/12/12 12:45	
Chloroform	ug/L	ND	1.0	11/12/12 12:45	
Chloromethane	ug/L	ND	1.0	11/12/12 12:45	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/12/12 12:45	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/12/12 12:45	
Dibromochloromethane	ug/L	ND	1.0	11/12/12 12:45	
Dibromomethane	ug/L	ND	1.0	11/12/12 12:45	
Dichlorodifluoromethane	ug/L	ND	1.0	11/12/12 12:45	
Diisopropyl ether	ug/L	ND	1.0	11/12/12 12:45	
Ethylbenzene	ug/L	ND	1.0	11/12/12 12:45	

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138031

METHOD BLANK: 869746 Matrix: Water

Associated Lab Samples: 92138031001, 92138031002, 92138031003, 92138031004, 92138031005, 92138031007, 92138031008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	1.1	1.0	11/12/12 12:45	
m&p-Xylene	ug/L	ND	2.0	11/12/12 12:45	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/12/12 12:45	
Methylene Chloride	ug/L	ND	2.0	11/12/12 12:45	
Naphthalene	ug/L	ND	1.0	11/12/12 12:45	
o-Xylene	ug/L	ND	1.0	11/12/12 12:45	
p-Isopropyltoluene	ug/L	ND	1.0	11/12/12 12:45	
Styrene	ug/L	ND	1.0	11/12/12 12:45	
Tetrachloroethene	ug/L	ND	1.0	11/12/12 12:45	
Toluene	ug/L	ND	1.0	11/12/12 12:45	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/12/12 12:45	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/12/12 12:45	
Trichloroethene	ug/L	ND	1.0	11/12/12 12:45	
Trichlorofluoromethane	ug/L	ND	1.0	11/12/12 12:45	
Vinyl acetate	ug/L	ND	2.0	11/12/12 12:45	
Vinyl chloride	ug/L	ND	1.0	11/12/12 12:45	
Xylene (Total)	ug/L	ND	2.0	11/12/12 12:45	
1,2-Dichloroethane-d4 (S)	%	109	70-130	11/12/12 12:45	
4-Bromofluorobenzene (S)	%	94	70-130	11/12/12 12:45	
Dibromofluoromethane (S)	%	111	70-130	11/12/12 12:45	
Toluene-d8 (S)	%	103	70-130	11/12/12 12:45	

LABORATORY CONTROL SAMPLE: 869747

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	40.9	82	70-130	
1,1,1-Trichloroethane	ug/L	50	43.9	88	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	44.5	89	70-130	
1,1,2-Trichloroethane	ug/L	50	44.7	89	70-130	
1,1-Dichloroethane	ug/L	50	44.5	89	70-130	
1,1-Dichloroethene	ug/L	50	43.9	88	70-132	
1,1-Dichloropropene	ug/L	50	42.3	85	70-130	
1,2,3-Trichlorobenzene	ug/L	50	46.5	93	70-135	
1,2,3-Trichloropropane	ug/L	50	45.6	91	70-130	
1,2,4-Trichlorobenzene	ug/L	50	44.7	89	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	54.6	109	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	44.9	90	70-130	
1,2-Dichlorobenzene	ug/L	50	42.4	85	70-130	
1,2-Dichloroethane	ug/L	50	43.7	87	70-130	
1,2-Dichloropropane	ug/L	50	41.4	83	70-130	
1,3-Dichlorobenzene	ug/L	50	42.5	85	70-130	
1,3-Dichloropropane	ug/L	50	43.2	86	70-130	
1,4-Dichlorobenzene	ug/L	50	41.3	83	70-130	
2,2-Dichloropropane	ug/L	50	42.4	85	58-145	
2-Butanone (MEK)	ug/L	100	111	111	70-145	

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138031

LABORATORY CONTROL SAMPLE: 869747

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chlorotoluene	ug/L	50	42.4	85	70-130	
2-Hexanone	ug/L	100	112	112	70-144	
4-Chlorotoluene	ug/L	50	43.1	86	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	70-140	
Acetone	ug/L	100	96.6	97	50-175	
Benzene	ug/L	50	40.7	81	70-130	
Bromobenzene	ug/L	50	43.4	87	70-130	
Bromochloromethane	ug/L	50	43.8	88	70-130	
Bromodichloromethane	ug/L	50	42.1	84	70-130	
Bromoform	ug/L	50	45.9	92	70-130	
Bromomethane	ug/L	50	47.1	94	54-130	
Carbon tetrachloride	ug/L	50	39.4	79	70-132	
Chlorobenzene	ug/L	50	42.6	85	70-130	
Chloroethane	ug/L	50	43.1	86	64-134	
Chloroform	ug/L	50	42.7	85	70-130	
Chloromethane	ug/L	50	47.4	95	64-130	
cis-1,2-Dichloroethene	ug/L	50	42.0	84	70-131	
cis-1,3-Dichloropropene	ug/L	50	42.5	85	70-130	
Dibromochloromethane	ug/L	50	43.5	87	70-130	
Dibromomethane	ug/L	50	42.1	84	70-131	
Dichlorodifluoromethane	ug/L	50	40.2	80	56-130	
Diisopropyl ether	ug/L	50	39.4	79	70-130	
Ethylbenzene	ug/L	50	42.3	85	70-130	
Hexachloro-1,3-butadiene	ug/L	50	48.8	98	70-130	
m&p-Xylene	ug/L	100	85.2	85	70-130	
Methyl-tert-butyl ether	ug/L	50	44.7	89	70-130	
Methylene Chloride	ug/L	50	43.0	86	63-130	
Naphthalene	ug/L	50	51.1	102	70-138	
o-Xylene	ug/L	50	41.5	83	70-130	
p-Isopropyltoluene	ug/L	50	43.4	87	70-130	
Styrene	ug/L	50	42.6	85	70-130	
Tetrachloroethene	ug/L	50	40.3	81	70-130	
Toluene	ug/L	50	41.9	84	70-130	
trans-1,2-Dichloroethene	ug/L	50	40.7	81	70-130	
trans-1,3-Dichloropropene	ug/L	50	42.2	84	70-132	
Trichloroethene	ug/L	50	40.2	80	70-130	
Trichlorofluoromethane	ug/L	50	39.0	78	62-133	
Vinyl acetate	ug/L	100	88.6	89	66-157	
Vinyl chloride	ug/L	50	39.7	79	69-130	
Xylene (Total)	ug/L	150	127	85	70-130	
1,2-Dichloroethane-d4 (S)	%			113	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			105	70-130	
Toluene-d8 (S)	%			102	70-130	

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138031

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 869748 869749

Parameter	Units	92138019005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	63.2	67.6	126	135	70-166	7	30	
Benzene	ug/L	3.0	50	50	58.8	59.1	112	112	70-148	0	30	
Chlorobenzene	ug/L	0.43J	50	50	60.0	62.5	119	124	70-146	4	30	
Toluene	ug/L	ND	50	50	64.3	64.0	129	128	70-155	0	30	
Trichloroethene	ug/L	3.3	50	50	68.0	68.2	129	130	69-151	0	30	
1,2-Dichloroethane-d4 (S)	%						97	98	70-130			
4-Bromofluorobenzene (S)	%						97	97	70-130			
Dibromofluoromethane (S)	%						98	98	70-130			
Toluene-d8 (S)	%						104	102	70-130			

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138031

QC Batch: OEXT/19686 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
Associated Lab Samples: 92138031001, 92138031002, 92138031003, 92138031004, 92138031005, 92138031006

METHOD BLANK: 870731 Matrix: Water
Associated Lab Samples: 92138031001, 92138031002, 92138031003, 92138031004, 92138031005, 92138031006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	11/13/12 15:52	
1,2-Dichlorobenzene	ug/L	ND	10.0	11/13/12 15:52	
1,3-Dichlorobenzene	ug/L	ND	10.0	11/13/12 15:52	
1,4-Dichlorobenzene	ug/L	ND	10.0	11/13/12 15:52	
1-Methylnaphthalene	ug/L	ND	10.0	11/13/12 15:52	
2,4,5-Trichlorophenol	ug/L	ND	10.0	11/13/12 15:52	
2,4,6-Trichlorophenol	ug/L	ND	10.0	11/13/12 15:52	
2,4-Dichlorophenol	ug/L	ND	10.0	11/13/12 15:52	
2,4-Dimethylphenol	ug/L	ND	10.0	11/13/12 15:52	
2,4-Dinitrophenol	ug/L	ND	50.0	11/13/12 15:52	
2,4-Dinitrotoluene	ug/L	ND	10.0	11/13/12 15:52	
2,6-Dinitrotoluene	ug/L	ND	10.0	11/13/12 15:52	
2-Chloronaphthalene	ug/L	ND	10.0	11/13/12 15:52	
2-Chlorophenol	ug/L	ND	10.0	11/13/12 15:52	
2-Methylnaphthalene	ug/L	ND	10.0	11/13/12 15:52	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	11/13/12 15:52	
2-Nitroaniline	ug/L	ND	50.0	11/13/12 15:52	
2-Nitrophenol	ug/L	ND	10.0	11/13/12 15:52	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	11/13/12 15:52	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	11/13/12 15:52	
3-Nitroaniline	ug/L	ND	50.0	11/13/12 15:52	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	11/13/12 15:52	
4-Bromophenylphenyl ether	ug/L	ND	10.0	11/13/12 15:52	
4-Chloro-3-methylphenol	ug/L	ND	20.0	11/13/12 15:52	
4-Chloroaniline	ug/L	ND	20.0	11/13/12 15:52	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	11/13/12 15:52	
4-Nitroaniline	ug/L	ND	20.0	11/13/12 15:52	
4-Nitrophenol	ug/L	ND	50.0	11/13/12 15:52	
Acenaphthene	ug/L	ND	10.0	11/13/12 15:52	
Acenaphthylene	ug/L	ND	10.0	11/13/12 15:52	
Aniline	ug/L	ND	10.0	11/13/12 15:52	
Anthracene	ug/L	ND	10.0	11/13/12 15:52	
Benzo(a)anthracene	ug/L	ND	10.0	11/13/12 15:52	
Benzo(a)pyrene	ug/L	ND	10.0	11/13/12 15:52	
Benzo(b)fluoranthene	ug/L	ND	10.0	11/13/12 15:52	
Benzo(g,h,i)perylene	ug/L	ND	10.0	11/13/12 15:52	
Benzo(k)fluoranthene	ug/L	ND	10.0	11/13/12 15:52	
Benzoic Acid	ug/L	ND	50.0	11/13/12 15:52	
Benzyl alcohol	ug/L	ND	20.0	11/13/12 15:52	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	11/13/12 15:52	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	11/13/12 15:52	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	11/13/12 15:52	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	11/13/12 15:52	

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138031

METHOD BLANK: 870731 Matrix: Water

Associated Lab Samples: 92138031001, 92138031002, 92138031003, 92138031004, 92138031005, 92138031006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	ug/L	ND	10.0	11/13/12 15:52	
Chrysene	ug/L	ND	10.0	11/13/12 15:52	
Di-n-butylphthalate	ug/L	ND	10.0	11/13/12 15:52	
Di-n-octylphthalate	ug/L	ND	10.0	11/13/12 15:52	
Dibenz(a,h)anthracene	ug/L	ND	10.0	11/13/12 15:52	
Dibenzofuran	ug/L	ND	10.0	11/13/12 15:52	
Diethylphthalate	ug/L	ND	10.0	11/13/12 15:52	
Dimethylphthalate	ug/L	ND	10.0	11/13/12 15:52	
Fluoranthene	ug/L	ND	10.0	11/13/12 15:52	
Fluorene	ug/L	ND	10.0	11/13/12 15:52	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	11/13/12 15:52	
Hexachlorobenzene	ug/L	ND	10.0	11/13/12 15:52	
Hexachlorocyclopentadiene	ug/L	ND	10.0	11/13/12 15:52	
Hexachloroethane	ug/L	ND	10.0	11/13/12 15:52	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	11/13/12 15:52	
Isophorone	ug/L	ND	10.0	11/13/12 15:52	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	11/13/12 15:52	
N-Nitrosodimethylamine	ug/L	ND	10.0	11/13/12 15:52	
N-Nitrosodiphenylamine	ug/L	ND	10.0	11/13/12 15:52	
Naphthalene	ug/L	ND	10.0	11/13/12 15:52	
Nitrobenzene	ug/L	ND	10.0	11/13/12 15:52	
Pentachlorophenol	ug/L	ND	25.0	11/13/12 15:52	
Phenanthrene	ug/L	ND	10.0	11/13/12 15:52	
Phenol	ug/L	ND	10.0	11/13/12 15:52	
Pyrene	ug/L	ND	10.0	11/13/12 15:52	
2,4,6-Tribromophenol (S)	%	77	27-110	11/13/12 15:52	
2-Fluorobiphenyl (S)	%	73	27-110	11/13/12 15:52	
2-Fluorophenol (S)	%	35	12-110	11/13/12 15:52	
Nitrobenzene-d5 (S)	%	67	21-110	11/13/12 15:52	
Phenol-d6 (S)	%	21	10-110	11/13/12 15:52	
Terphenyl-d14 (S)	%	100	31-107	11/13/12 15:52	

LABORATORY CONTROL SAMPLE: 870732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	21.8	44	10-110	
1,2-Dichlorobenzene	ug/L	50	22.6	45	10-110	
1,3-Dichlorobenzene	ug/L	50	20.7	41	10-110	
1,4-Dichlorobenzene	ug/L	50	21.7	43	10-110	
1-Methylnaphthalene	ug/L	50	24.9	50	21-110	
2,4,5-Trichlorophenol	ug/L	50	41.2	82	23-116	
2,4,6-Trichlorophenol	ug/L	50	41.3	83	21-114	
2,4-Dichlorophenol	ug/L	50	40.4	81	22-120	
2,4-Dimethylphenol	ug/L	50	35.0	70	15-109	
2,4-Dinitrophenol	ug/L	250	164	66	10-103	

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138031

LABORATORY CONTROL SAMPLE: 870732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/L	50	31.8	64	24-119	
2,6-Dinitrotoluene	ug/L	50	33.4	67	25-116	
2-Chloronaphthalene	ug/L	50	28.2	56	18-110	
2-Chlorophenol	ug/L	50	35.0	70	10-104	
2-Methylnaphthalene	ug/L	50	24.4	49	16-110	
2-Methylphenol(o-Cresol)	ug/L	50	30.3	61	13-110	
2-Nitroaniline	ug/L	100	66.1	66	20-117	
2-Nitrophenol	ug/L	50	42.3	85	16-108	
3&4-Methylphenol(m&p Cresol)	ug/L	50	25.5	51	14-110	
3,3'-Dichlorobenzidine	ug/L	100	72.6	73	13-131	
3-Nitroaniline	ug/L	100	64.9	65	15-117	
4,6-Dinitro-2-methylphenol	ug/L	100	81.4	81	13-119	
4-Bromophenylphenyl ether	ug/L	50	46.6	93	23-120	
4-Chloro-3-methylphenol	ug/L	100	69.1	69	21-119	
4-Chloroaniline	ug/L	100	70.8	71	10-122	
4-Chlorophenylphenyl ether	ug/L	50	38.9	78	22-112	
4-Nitroaniline	ug/L	100	55.7	56	14-118	
4-Nitrophenol	ug/L	250	58.6	23	10-110	
Acenaphthene	ug/L	50	35.6	71	20-105	
Acenaphthylene	ug/L	50	34.0	68	23-106	
Aniline	ug/L	50	28.6	57	10-110	
Anthracene	ug/L	50	44.9	90	25-120	
Benzo(a)anthracene	ug/L	50	45.7	91	21-128	
Benzo(a)pyrene	ug/L	50	49.0	98	25-116	
Benzo(b)fluoranthene	ug/L	50	46.2	92	23-117	
Benzo(g,h,i)perylene	ug/L	50	50.0	100	17-128	
Benzo(k)fluoranthene	ug/L	50	45.6	91	25-127	
Benzoic Acid	ug/L	250	40.4J	16	10-110	
Benzyl alcohol	ug/L	100	62.2	62	10-101	
bis(2-Chloroethoxy)methane	ug/L	50	40.9	82	19-107	
bis(2-Chloroethyl) ether	ug/L	50	39.2	78	10-108	
bis(2-Chloroisopropyl) ether	ug/L	50	28.9	58	10-108	
bis(2-Ethylhexyl)phthalate	ug/L	50	40.9	82	16-123	
Butylbenzylphthalate	ug/L	50	38.6	77	20-118	
Chrysene	ug/L	50	45.5	91	24-125	
Di-n-butylphthalate	ug/L	50	39.4	79	23-115	
Di-n-octylphthalate	ug/L	50	43.5	87	20-115	
Dibenz(a,h)anthracene	ug/L	50	49.6	99	18-131	
Dibenzofuran	ug/L	50	36.6	73	23-106	
Diethylphthalate	ug/L	50	37.4	75	24-115	
Dimethylphthalate	ug/L	50	39.1	78	22-113	
Fluoranthene	ug/L	50	43.5	87	24-125	
Fluorene	ug/L	50	37.7	75	24-114	
Hexachloro-1,3-butadiene	ug/L	50	19.7	39	10-110	
Hexachlorobenzene	ug/L	50	48.0	96	22-127	
Hexachlorocyclopentadiene	ug/L	50	15.9	32	10-110	
Hexachloroethane	ug/L	50	17.9	36	10-110	
Indeno(1,2,3-cd)pyrene	ug/L	50	49.6	99	18-130	

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138031

LABORATORY CONTROL SAMPLE: 870732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isophorone	ug/L	50	32.6	65	23-114	
N-Nitroso-di-n-propylamine	ug/L	50	35.9	72	21-114	
N-Nitrosodimethylamine	ug/L	50	23.4	47	10-110	
N-Nitrosodiphenylamine	ug/L	50	45.0	90	24-123	
Naphthalene	ug/L	50	27.7	55	14-110	
Nitrobenzene	ug/L	50	30.7	61	16-106	
Pentachlorophenol	ug/L	100	69.8	70	10-123	
Phenanthrene	ug/L	50	42.9	86	25-119	
Phenol	ug/L	50	15.2	30	10-110	
Pyrene	ug/L	50	42.8	86	22-127	
2,4,6-Tribromophenol (S)	%			91	27-110	
2-Fluorobiphenyl (S)	%			85	27-110	
2-Fluorophenol (S)	%			40	12-110	
Nitrobenzene-d5 (S)	%			78	21-110	
Phenol-d6 (S)	%			25	10-110	
Terphenyl-d14 (S)	%			92	31-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 870733 870734

Parameter	Units	92138031001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trichlorobenzene	ug/L	ND	100	100	48.0	55.0	48	55	10-110	13	30	
1,2-Dichlorobenzene	ug/L	ND	100	100	47.6	46.0	48	46	10-110	3	30	
1,3-Dichlorobenzene	ug/L	ND	100	100	42.8	42.2	43	42	10-110	1	30	
1,4-Dichlorobenzene	ug/L	ND	100	100	45.2	44.7	45	45	10-110	1	30	
1-Methylnaphthalene	ug/L	ND	100	100	64.8	69.4	65	69	14-110	7	30	
2,4,5-Trichlorophenol	ug/L	ND	100	100	79.0	79.2	79	79	19-105	0	30	
2,4,6-Trichlorophenol	ug/L	ND	100	100	76.4	79.6	76	80	13-108	4	30	
2,4-Dichlorophenol	ug/L	ND	100	100	80.5	79.1	80	79	29-111	2	30	
2,4-Dimethylphenol	ug/L	ND	100	100	74.9	77.8	75	78	21-103	4	30	
2,4-Dinitrophenol	ug/L	ND	500	500	354	318	71	64	10-109	11	30	
2,4-Dinitrotoluene	ug/L	ND	100	100	66.9	63.4	67	63	27-104	5	30	
2,6-Dinitrotoluene	ug/L	ND	100	100	67.3	67.6	67	68	28-101	0	30	
2-Chloronaphthalene	ug/L	ND	100	100	65.9	76.2	66	76	14-102	15	30	
2-Chlorophenol	ug/L	ND	100	100	71.0	71.9	71	72	16-110	1	30	
2-Methylnaphthalene	ug/L	ND	100	100	62.8	67.3	63	67	13-110	7	30	
2-Methylphenol(o-Cresol)	ug/L	ND	100	100	66.7	68.3	67	68	19-110	2	30	
2-Nitroaniline	ug/L	ND	200	200	146	146	73	73	26-103	0	30	
2-Nitrophenol	ug/L	ND	100	100	79.0	84.4	79	84	20-110	7	30	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	100	100	61.4	62.7	61	63	20-110	2	30	
3,3'-Dichlorobenzidine	ug/L	ND	200	200	183	175	90	86	25-112	4	30	
3-Nitroaniline	ug/L	ND	200	200	141	130	71	65	29-110	8	30	
4,6-Dinitro-2-methylphenol	ug/L	ND	200	200	168	162	84	81	10-117	4	30	
4-Bromophenylphenyl ether	ug/L	ND	100	100	96.7	104	97	104	20-105	7	30	
4-Chloro-3-methylphenol	ug/L	ND	200	200	156	147	78	73	22-110	6	30	
4-Chloroaniline	ug/L	ND	200	200	144	140	72	70	20-100	2	30	

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138031

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 870733 870734

Parameter	Units	92138031001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4-Chlorophenylphenyl ether	ug/L	ND	100	100	82.5	83.1	82	83	19-102	1	30	
4-Nitroaniline	ug/L	ND	200	200	143	121	71	61	29-110	17	30	
4-Nitrophenol	ug/L	ND	500	500	191	185	38	37	10-110	3	30	
Acenaphthene	ug/L	ND	100	100	78.2	84.6	78	85	17-100	8	30	
Acenaphthylene	ug/L	ND	100	100	74.0	80.7	74	81	21-100	9	30	
Aniline	ug/L	ND	100	100	60.9	50.8	61	51	10-110	18	30	
Anthracene	ug/L	ND	100	100	90.9	91.0	91	91	24-109	0	30	
Benzo(a)anthracene	ug/L	ND	100	100	92.2	95.8	90	94	22-117	4	30	
Benzo(a)pyrene	ug/L	ND	100	100	95.7	99.5	93	97	23-104	4	30	
Benzo(b)fluoranthene	ug/L	ND	100	100	89.4	92.7	87	90	23-103	4	30	
Benzo(g,h,i)perylene	ug/L	ND	100	100	101	105	100	103	18-111	3	30	
Benzo(k)fluoranthene	ug/L	ND	100	100	89.4	91.5	88	90	22-113	2	30	
Benzoic Acid	ug/L	ND	500	500	122	207	24	41	10-110	51	30	R1
Benzyl alcohol	ug/L	ND	200	200	140	147	70	74	19-101	5	30	
bis(2-Chloroethoxy)methane	ug/L	ND	100	100	76.3	80.6	76	81	22-110	6	30	
bis(2-Chloroethyl) ether	ug/L	ND	100	100	80.0	79.1	80	79	16-110	1	30	
bis(2-Chloroisopropyl) ether	ug/L	ND	100	100	58.6	59.0	59	59	14-110	1	30	
bis(2-Ethylhexyl)phthalate	ug/L	ND	100	100	81.3	84.4	81	84	23-102	4	30	
Butylbenzylphthalate	ug/L	ND	100	100	81.4	80.7	81	81	25-110	1	30	
Chrysene	ug/L	ND	100	100	91.4	95.1	89	93	23-115	4	30	
Di-n-butylphthalate	ug/L	ND	100	100	80.0	78.8	80	79	26-110	2	30	
Di-n-octylphthalate	ug/L	ND	100	100	80.6	87.5	81	88	22-110	8	30	
Dibenz(a,h)anthracene	ug/L	ND	100	100	100	105	98	103	21-112	5	30	
Dibenzofuran	ug/L	ND	100	100	78.7	82.5	79	83	19-102	5	30	
Diethylphthalate	ug/L	ND	100	100	76.6	74.4	77	74	29-110	3	30	
Dimethylphthalate	ug/L	ND	100	100	76.8	77.5	77	77	27-110	1	30	
Fluoranthene	ug/L	ND	100	100	89.1	85.4	89	85	23-112	4	30	
Fluorene	ug/L	ND	100	100	79.6	80.4	80	80	22-104	1	30	
Hexachloro-1,3-butadiene	ug/L	ND	100	100	41.1	47.2	41	47	10-110	14	30	
Hexachlorobenzene	ug/L	ND	100	100	97.8	102	98	102	21-116	4	30	
Hexachlorocyclopentadiene	ug/L	ND	100	100	36.4	54.7	36	55	10-110	40	30	R1
Hexachloroethane	ug/L	ND	100	100	36.8	37.2	37	37	10-110	1	30	
Indeno(1,2,3-cd)pyrene	ug/L	ND	100	100	102	104	101	103	20-113	2	30	
Isophorone	ug/L	ND	100	100	62.5	64.0	62	64	50-150	2	30	
N-Nitroso-di-n-propylamine	ug/L	ND	100	100	74.5	72.0	75	72	21-105	3	30	
N-Nitrosodimethylamine	ug/L	ND	100	100	54.0	64.4	54	64	10-110	18	30	
N-Nitrosodiphenylamine	ug/L	ND	100	100	91.2	93.2	91	93	23-107	2	30	
Naphthalene	ug/L	ND	100	100	58.3	62.8	58	63	10-110	7	30	
Nitrobenzene	ug/L	ND	100	100	57.5	61.6	58	62	20-110	7	30	
Pentachlorophenol	ug/L	ND	200	200	150	138	75	69	10-118	8	30	
Phenanthrene	ug/L	ND	100	100	88.6	89.3	89	89	24-106	1	30	
Phenol	ug/L	ND	100	100	40.3	45.9	40	46	12-110	13	30	
Pyrene	ug/L	ND	100	100	93.5	92.0	93	92	24-114	2	30	
2,4,6-Tribromophenol (S)	%						92	92	27-110			
2-Fluorobiphenyl (S)	%						73	83	27-110			
2-Fluorophenol (S)	%						45	53	12-110			
Nitrobenzene-d5 (S)	%						71	76	21-110			

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138031

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 870733 870734

Parameter	Units	92138031001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phenol-d6 (S)	%						35	41	10-110			
Terphenyl-d14 (S)	%						94	93	31-107			

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QUALIFIERS

Project: ECI Elon Facility
Pace Project No.: 92138031

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ECI Elon Facility
Pace Project No.: 92138031

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92138031007	**ECIE-1112-GP2**	EPA 5030/8015 Mod.	GCV/6400		
92138031006	**ECIE-1112-MW6**	EPA 3010	MPRP/11953	EPA 6010	ICP/10932
92138031006	**ECIE-1112-MW6**	EPA 7470	MERP/4671	EPA 7470	MERC/4569
92138031001	**ECIE-1112-MW1**	EPA 3510	OEXT/19686	EPA 8270	MSSV/6984
92138031002	**ECIE-1112-MW2**	EPA 3510	OEXT/19686	EPA 8270	MSSV/6984
92138031003	**ECIE-1112-MW3**	EPA 3510	OEXT/19686	EPA 8270	MSSV/6984
92138031004	**ECIE-1112-MW4**	EPA 3510	OEXT/19686	EPA 8270	MSSV/6984
92138031005	**ECIE-1112-MW5**	EPA 3510	OEXT/19686	EPA 8270	MSSV/6984
92138031006	**ECIE-1112-MW6**	EPA 3510	OEXT/19686	EPA 8270	MSSV/6984
92138031001	**ECIE-1112-MW1**	EPA 8260	MSV/21054		
92138031002	**ECIE-1112-MW2**	EPA 8260	MSV/21054		
92138031003	**ECIE-1112-MW3**	EPA 8260	MSV/21054		
92138031004	**ECIE-1112-MW4**	EPA 8260	MSV/21054		
92138031005	**ECIE-1112-MW5**	EPA 8260	MSV/21054		
92138031007	**ECIE-1112-GP2**	EPA 8260	MSV/21054		
92138031008	**TRIP BLANK**	EPA 8260	MSV/21054		

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TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92138031001
Operator : KJM
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 12-NOV-2012 20:24

Client SDG: 92138031
Client Smp ID: ECIE-1112-MW1
Sample Date: 06-NOV-2012
Sample Point:
Date Received:08-NOV-2012 00:00
Level: LOW

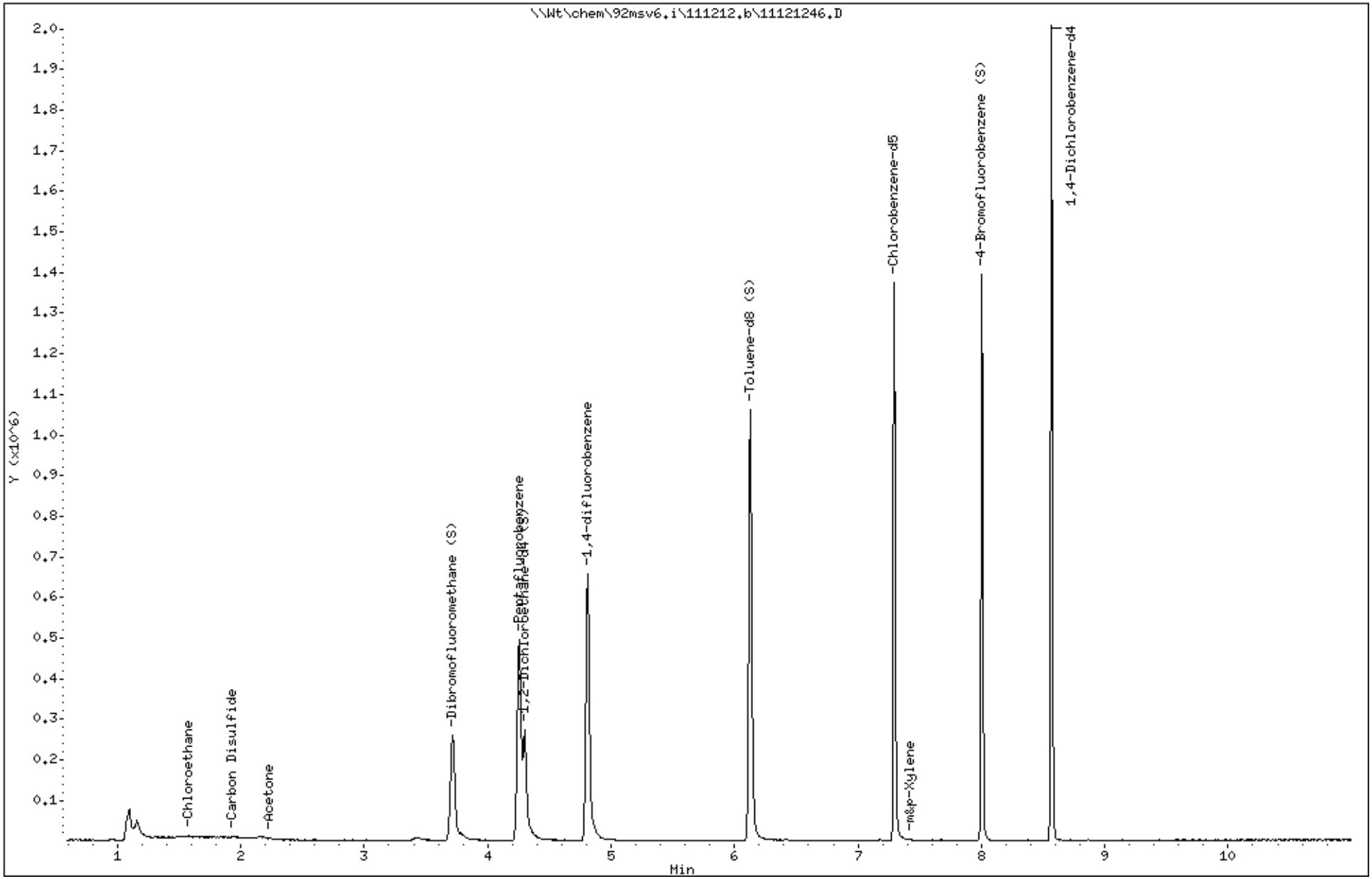
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\Wt\chem\92msv6.i\111212.b\11121246.D
Date : 12-NOV-2012 20:24
Client ID: ECIE-1112-MW1
Sample Info: 111212,8260WLL,KJM,1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 92msv6.i
Operator: KJM
Column diameter: 0.18



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TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92138031002
Operator : KJM
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 12-NOV-2012 20:40

Client SDG: 92138031
Client Smp ID: ECIE-1112-MW2
Sample Date: 06-NOV-2012
Sample Point:
Date Received:08-NOV-2012 00:00
Level: LOW

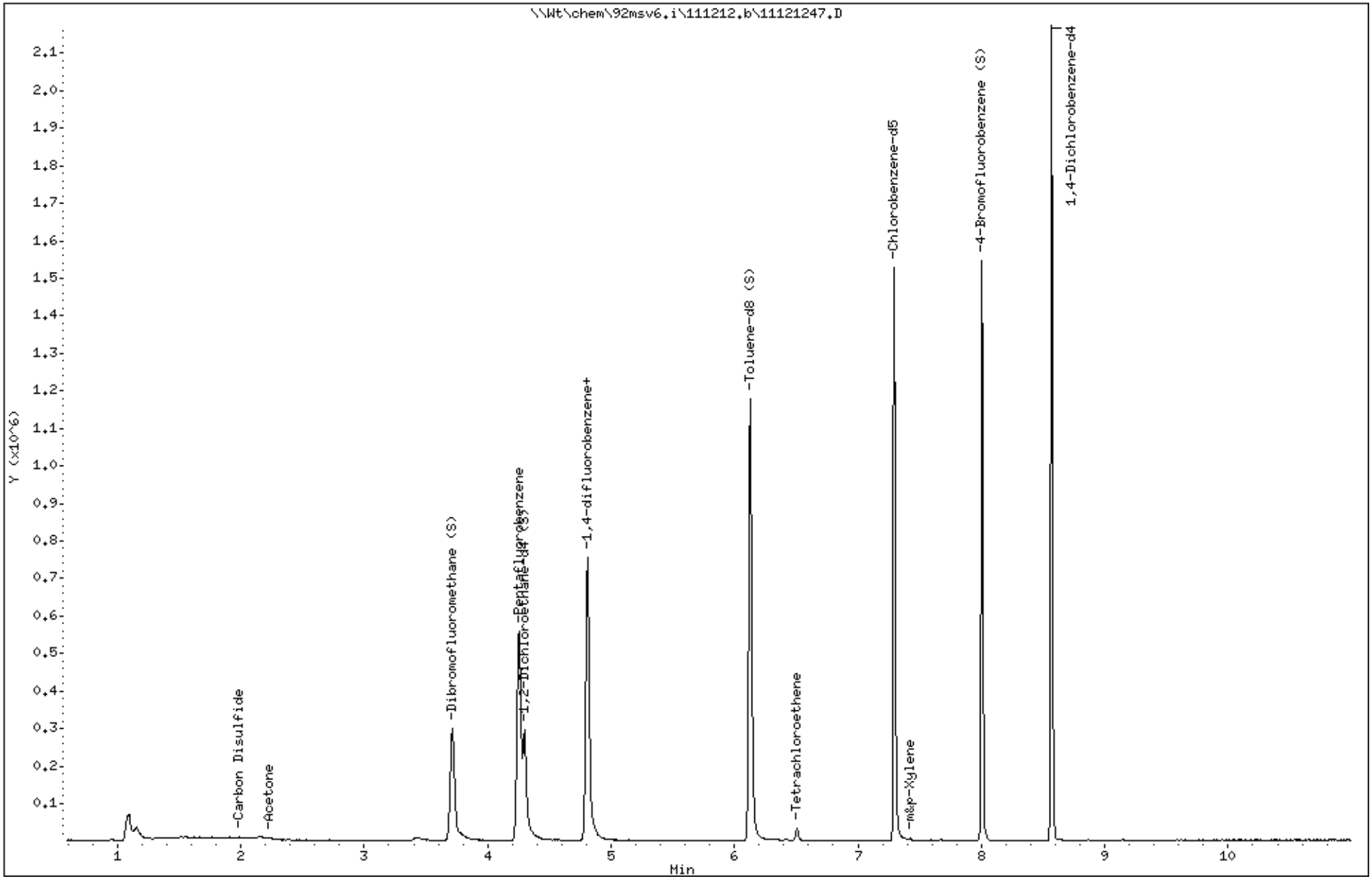
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\Wt\chem\92msv6.i\111212.b\11121247.D
Date : 12-NOV-2012 20:40
Client ID: ECIE-1112-MW2
Sample Info: 111212,8260WLL,KJM,1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 92msv6.i
Operator: KJM
Column diameter: 0.18



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TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92138031003
Operator : KJM
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 12-NOV-2012 20:56

Client SDG: 92138031
Client Smp ID: ECIE-1112-MW3
Sample Date: 06-NOV-2012
Sample Point:
Date Received:08-NOV-2012 00:00
Level: LOW

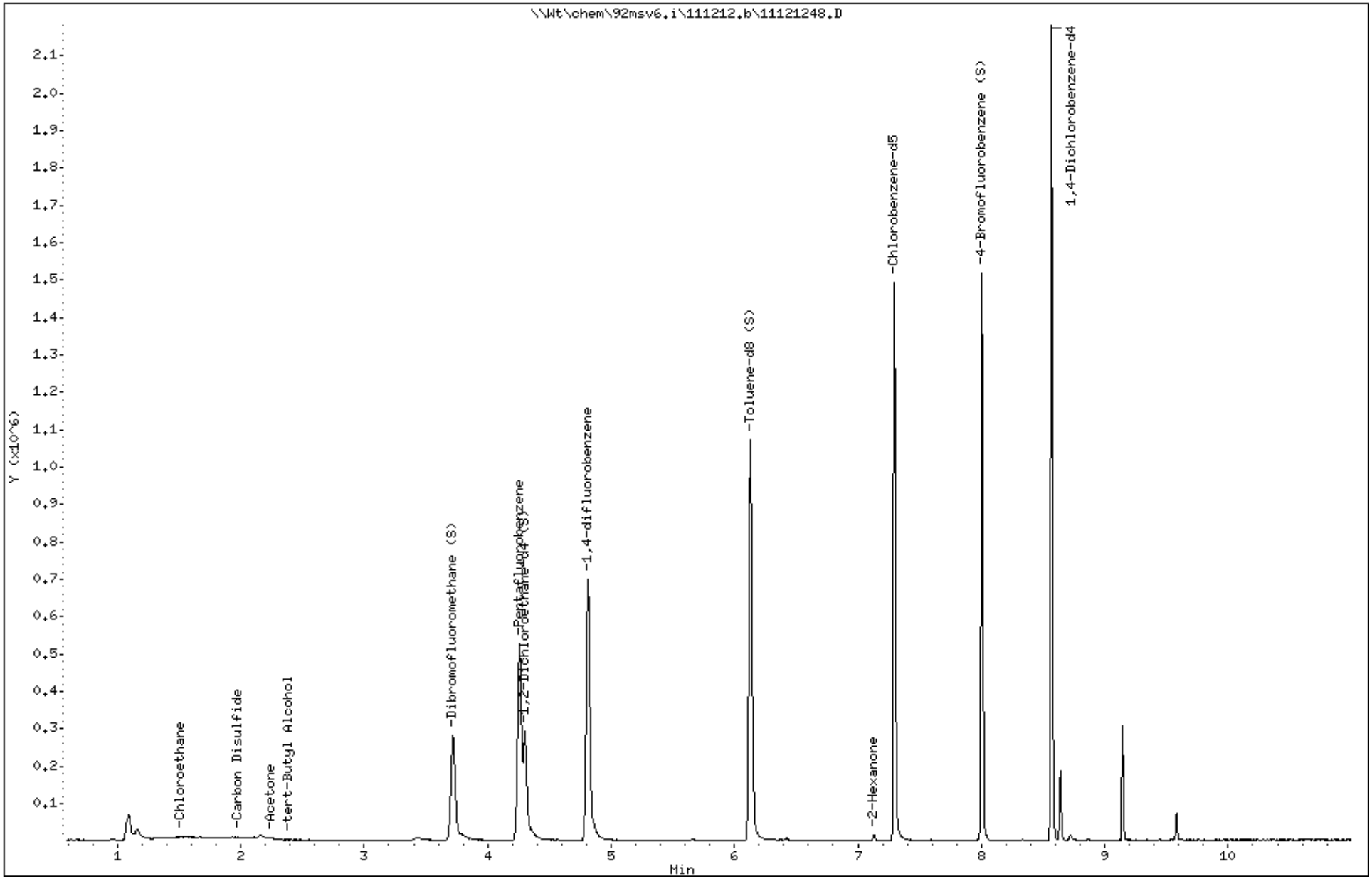
Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-19-6	Nonanal	9.148	6.88	NJ__

Data File: \\Wt\chem\92msv6.i\111212.b\11121248.D
Date : 12-NOV-2012 20:56
Client ID: ECIE-1112-MW3
Sample Info: 111212,8260WLL,KJM,1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 92msv6.i
Operator: KJM
Column diameter: 0.18



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TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92138031004
Operator : KJM
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 12-NOV-2012 21:12

Client SDG: 92138031
Client Smp ID: ECIE-1112-MW4
Sample Date: 06-NOV-2012
Sample Point:
Date Received:08-NOV-2012 00:00
Level: LOW

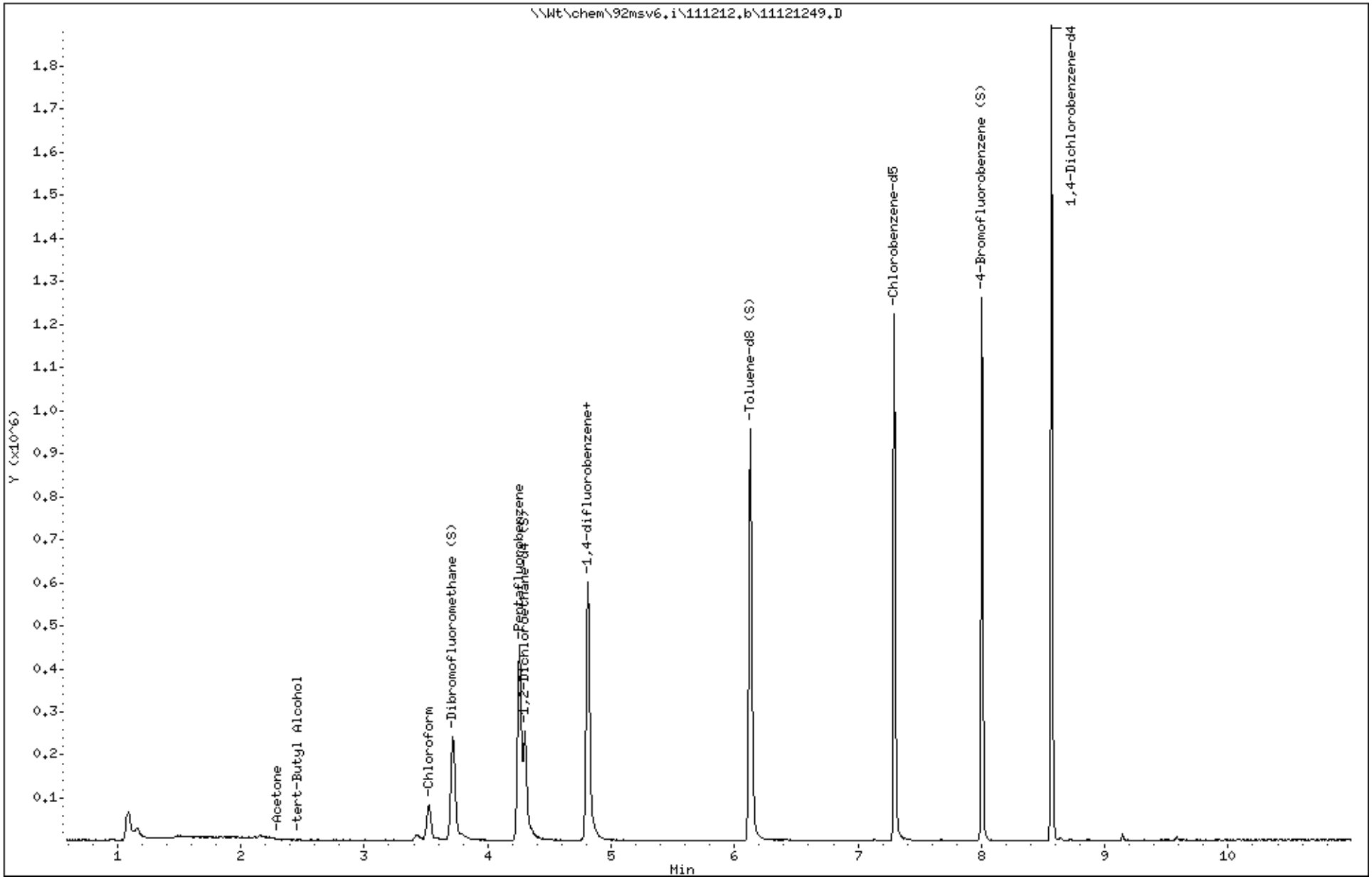
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\Wt\chem\92msv6.i\111212.b\11121249.D
Date : 12-NOV-2012 21:12
Client ID: ECIE-1112-MW4
Sample Info: 111212,8260WLL,KJM,1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 92msv6.i
Operator: KJM
Column diameter: 0.18



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TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92138031005
Operator : KJM
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 12-NOV-2012 21:28

Client SDG: 92138031
Client Smp ID: ECIE-1112-MW5
Sample Date: 06-NOV-2012
Sample Point:
Date Received:08-NOV-2012 00:00
Level: LOW

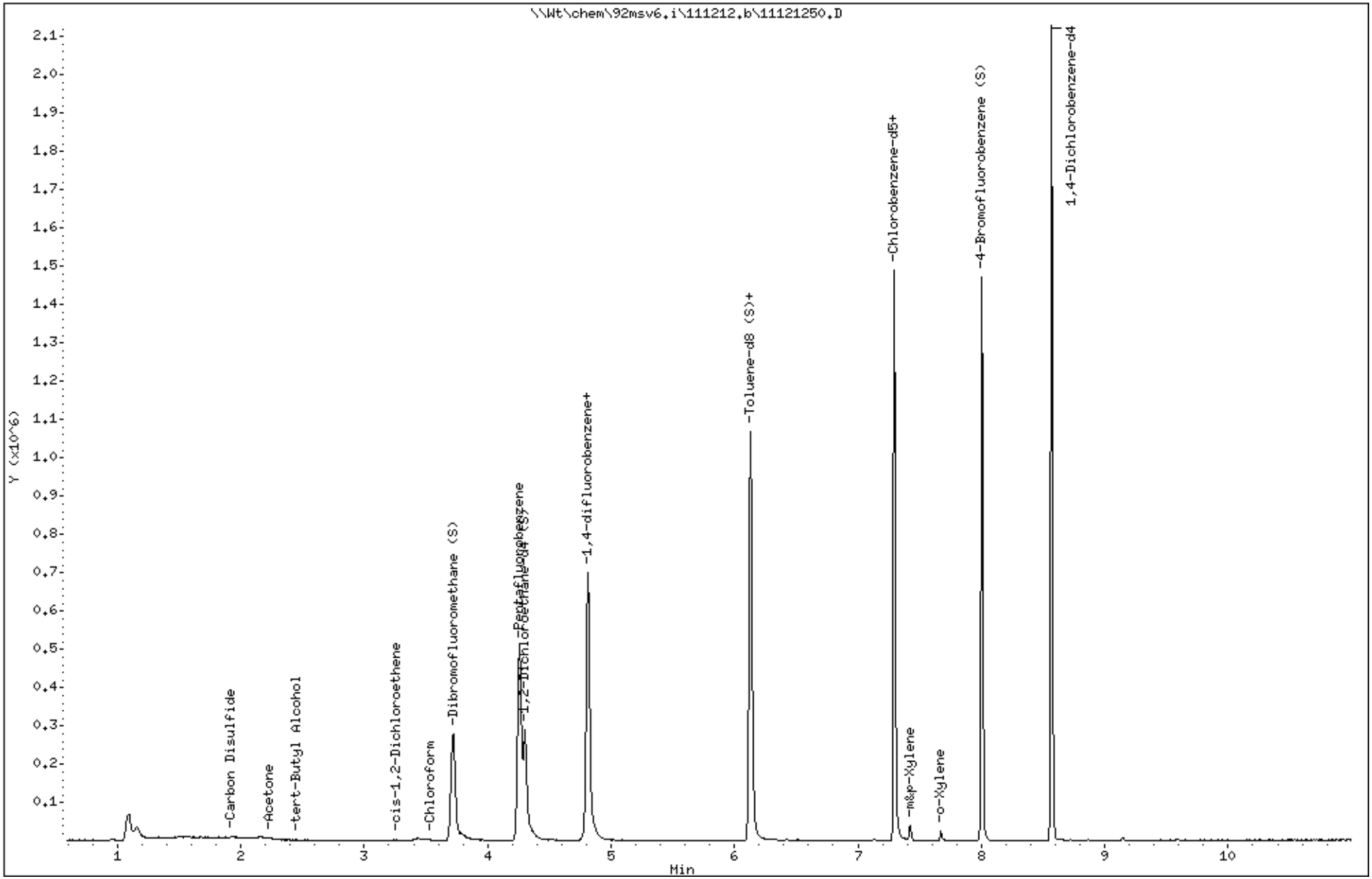
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\Wt\chem\92msv6.i\111212.b\11121250.D
Date : 12-NOV-2012 21:28
Client ID: ECIE-1112-MW5
Sample Info: 111212,8260WLL,KJM,1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 92msv6.i
Operator: KJM
Column diameter: 0.18



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TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92138031007
Operator : KJM
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 12-NOV-2012 21:44

Client SDG: 92138031
Client Smp ID: ECIE-1112-GP2
Sample Date: 07-NOV-2012
Sample Point:
Date Received:08-NOV-2012 00:00
Level: LOW

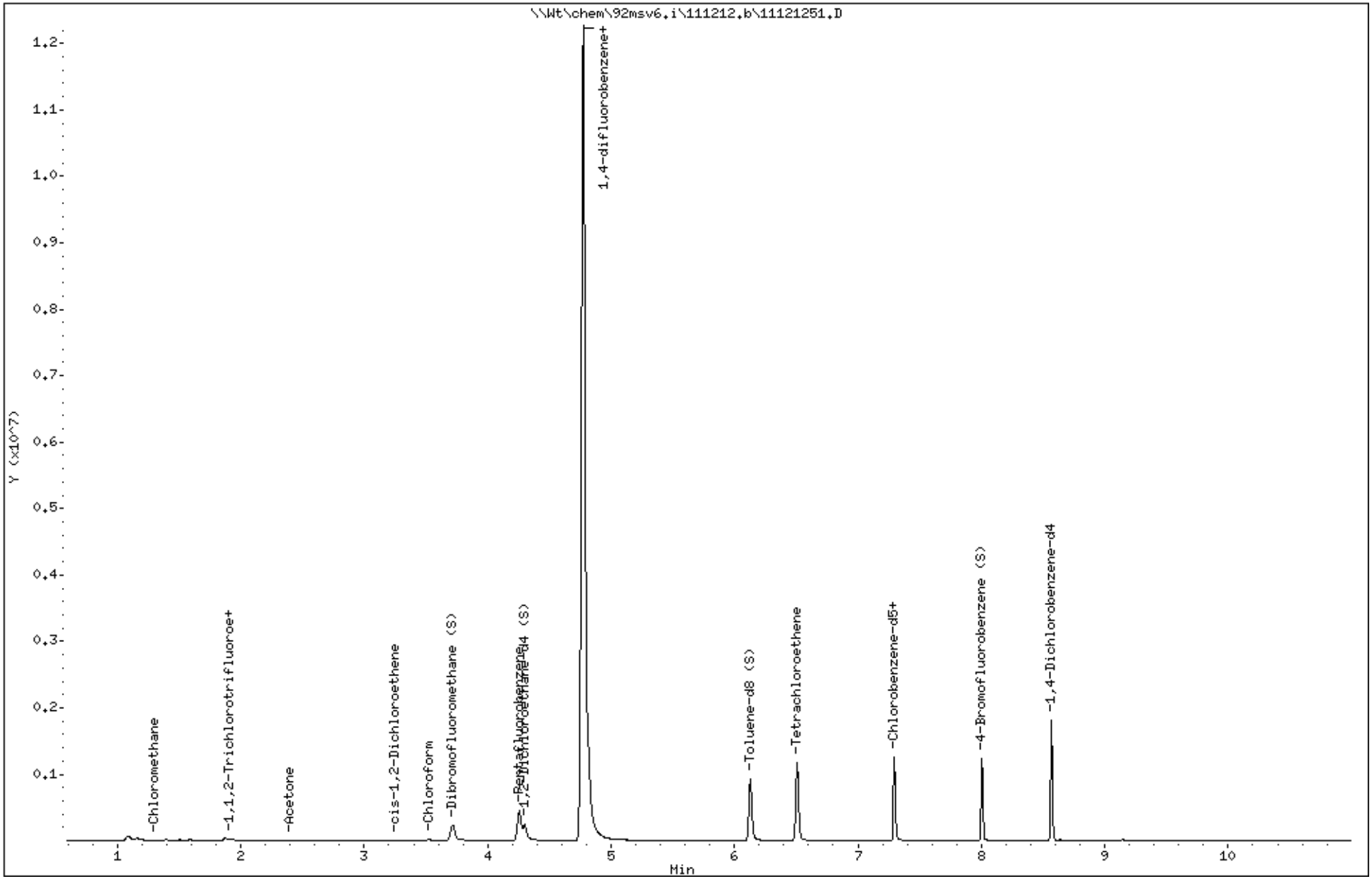
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\Wt\chem\92msv6.i\111212.b\11121251.D
Date : 12-NOV-2012 21:44
Client ID: ECIE-1112-GP2
Sample Info: 111212,8260WLL,KJM,1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 92msv6.i
Operator: KJM
Column diameter: 0.18



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TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92138031008
Operator : KJM
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 12-NOV-2012 20:09

Client SDG: 92138031
Client Smp ID: TRIP BLANK
Sample Date: 07-NOV-2012
Sample Point:
Date Received:08-NOV-2012 00:00
Level: LOW

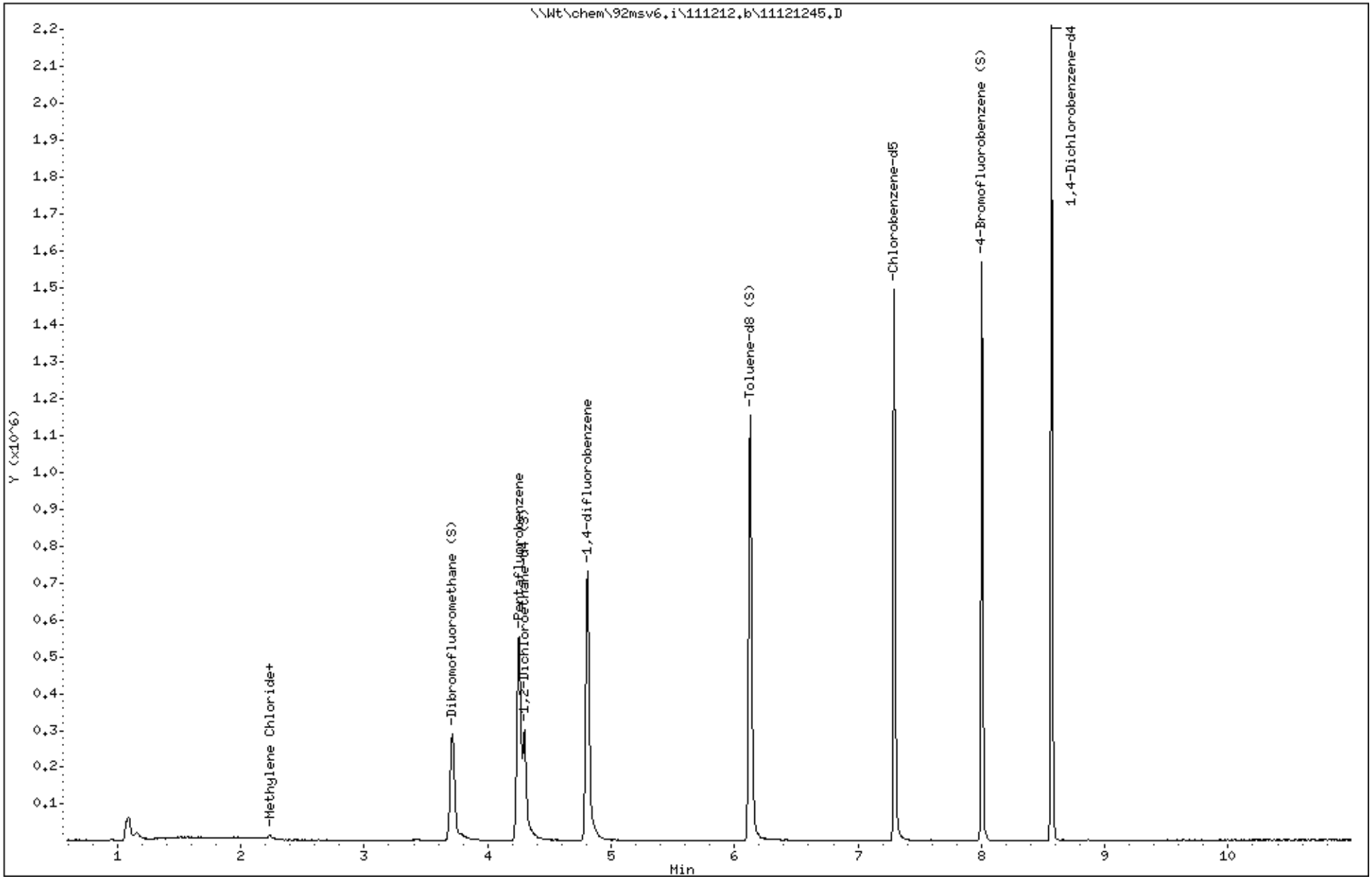
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\Wt\chem\92msv6.i\111212.b\11121245.D
Date : 12-NOV-2012 20:09
Client ID: TRIP BLANK
Sample Info: 111212,8260WLL,KJM,1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 92msv6.i
Operator: KJM
Column diameter: 0.18



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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1602300

Section A Required Client Information:

Company: GAIATECH
Address: 3525 PIEDMONT RD NE
BLDG. 6, SUITE 520
Email To: MIKE WILSON + WILL LUCAS
Phone: (404) 812- Fax: 0001
Requested Due Date/TAT:

Section B Required Project Information:

Report To: MIKE WILSON MWILSON@GAIATECH.COM
Copy To: WILL LUCAS WLUCAS@GAIATECH.COM
Purchase Order No.: B1116-421-1
Project Name: ECI ELON FACILITY
Project Number: B1116-421-1

Section C Invoice Information:

Attention: MIKE WILSON
Company Name: GAIATECH
Address: SAME AS REPORT ADDRESS
Pace Quote Reference:
Pace Project Manager: ALLISON CONTRELL
Pace Profile #: 5513-2

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Requested Analysis Filtered (Y/N)

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOC + TIC	SVOC + TIC	HSL METALS	TPH-GRO	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	ECIE-1112-MW1	WT	G	11/6/12	1330		5	2			3						X	X				001
2	ECIE-1112-MW2				1500		5	2			3						X	X				002
3	ECIE-1112-MW3				1615		5	2			3						X	X				003
4	ECIE-1112-MW4				1800		5	2			3						X	X				004
5	ECIE-1112-MW5				1930		5	2			3						X	X				005
6	ECIE-1112-MW6	WT	G	11/7/12	0900		3	2		1								X	X			006
7	ECIE-1112-GP2	WT	G	11/7/12	1200		6				6						X			X		007
8	TRIPBLANK	WT		—	—		2	1			1						X					008
9																						
10																						
11																						
12																						

92138031

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	GAIATECH	11/8/12	11:07		11-8-12	1107	
		11-8-12	1510		11/8/12	15:10	9.3 Y N / Y N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical	Sample Condition Upon Receipt (SCUR)	Page 1 of 2
	Document Number: F-CHR-CS-03-rev.08	Issuing Authority: Pace Huntersville Quality Office

Client Name: Guigtel Project # 92138031

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden ☐ Raleigh

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1101 T1102 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor T1101: No Correction T1102: No Correction

Corrected Cooler Temp.: 9-3 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: [illegible]

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16. no date / time
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [illegible] **Date:** 11/8/12 **SRF Review:** [illegible] **Date:** 11/9/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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November 28, 2012

Michael Wilson
Gaia Tech
3525 Piedmont Rd NE
Bldg 6, Suite 520
Atlanta, GA 30326

RE: Project: ECI Elon Facility
Pace Project No.: 92138703

Dear Michael Wilson:
Enclosed are the analytical results for sample(s) received by the laboratory on November 14, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: ECI Elon Facility
Pace Project No.: 92138703

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: ECI Elon Facility
Pace Project No.: 92138703

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92138703001	**ECIE-1112-MW-11**	Water	11/09/12 11:30	11/14/12 17:50
92138703002	**ECIE-1112-MW-12**	Water	11/09/12 14:00	11/14/12 17:50
92138703003	**ECIE-1112-MW-13**	Water	11/09/12 16:30	11/14/12 17:50
92138703004	**ECIE-1112-MW-10**	Water	11/13/12 14:15	11/14/12 17:50
92138703005	**ECIE-1112-DW-1**	Water	11/13/12 17:30	11/14/12 17:50
92138703006	**ECIE-1112-DW-1 (DUP)**	Water	11/13/12 17:35	11/14/12 17:50
92138703007	**TRIP BLANK**	Water	11/13/12 00:00	11/14/12 17:50

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SAMPLE ANALYTE COUNT

Project: ECI Elon Facility
Pace Project No.: 92138703

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92138703001	**ECIE-1112-MW-11**	EPA 6010	JDA, JMW	13	PASI-A
		EPA 7470	SH1	1	PASI-A
92138703002	**ECIE-1112-MW-12**	EPA 6010	JDA, JMW	13	PASI-A
		EPA 7470	SH1	1	PASI-A
92138703003	**ECIE-1112-MW-13**	EPA 6010	JDA, JMW	13	PASI-A
		EPA 7470	SH1	1	PASI-A
92138703004	**ECIE-1112-MW-10**	EPA 6010	JDA, JMW	13	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8270	PPM	74	PASI-C
		EPA 8260	MCK	64	PASI-C
92138703005	**ECIE-1112-DW-1**	EPA 6010	JDA, JMW	13	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8270	PPM	74	PASI-C
		EPA 8260	MCK	64	PASI-C
92138703006	**ECIE-1112-DW-1 (DUP)**	EPA 6010	JDA, JMW	13	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8270	PPM	74	PASI-C
		EPA 8260	MCK	64	PASI-C
92138703007	**TRIP BLANK**	EPA 8260	MCK	64	PASI-C

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HITS ONLY

Project: ECI Elon Facility
Pace Project No.: 92138703

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92138703001	**ECIE-1112-MW-11**					
EPA 6010	Copper	18.1	ug/L	5.0	11/17/12 12:25	
EPA 6010	Manganese	73.0	ug/L	5.0	11/17/12 12:25	
EPA 6010	Zinc	24.6	ug/L	10.0	11/17/12 12:25	
92138703002	**ECIE-1112-MW-12**					
EPA 6010	Copper	7.6	ug/L	5.0	11/17/12 12:28	
EPA 6010	Manganese	103	ug/L	5.0	11/17/12 12:28	
EPA 6010	Zinc	10.2	ug/L	10.0	11/17/12 12:28	
92138703003	**ECIE-1112-MW-13**					
EPA 6010	Manganese	18.1	ug/L	5.0	11/17/12 12:31	
92138703004	**ECIE-1112-MW-10**					
EPA 6010	Manganese	54.1	ug/L	5.0	11/17/12 12:35	
EPA 8260	Acetone	27.9	ug/L	25.0	11/17/12 11:14	
EPA 8260	Trichloroethene	5.5	ug/L	1.0	11/17/12 11:14	
92138703005	**ECIE-1112-DW-1**					
EPA 6010	Chromium	12.4	ug/L	5.0	11/17/12 12:51	
EPA 6010	Manganese	7.1	ug/L	5.0	11/17/12 12:51	
EPA 6010	Nickel	6.5	ug/L	5.0	11/17/12 12:51	
EPA 8260	Trichloroethene	95.8	ug/L	1.0	11/17/12 11:30	
92138703006	**ECIE-1112-DW-1 (DUP)**					
EPA 6010	Chromium	22.4	ug/L	5.0	11/17/12 12:54	
EPA 6010	Manganese	6.7	ug/L	5.0	11/17/12 12:54	
EPA 6010	Nickel	12.4	ug/L	5.0	11/17/12 12:54	
EPA 8260	Trichloroethene	96.1	ug/L	1.0	11/17/12 11:46	

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PROJECT NARRATIVE

Project: ECI Elon Facility
Pace Project No.: 92138703

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Gaia Tech
Date: November 28, 2012

General Information:
6 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: ECI Elon Facility
Pace Project No.: 92138703

Method: **EPA 7470**
Description: 7470 Mercury
Client: Gaia Tech
Date: November 28, 2012

General Information:
6 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: ECI Elon Facility
Pace Project No.: 92138703

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: Gaia Tech
Date: November 28, 2012

General Information:
3 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/19741

S0: Surrogate recovery outside laboratory control limits.

- ECIE-1112-DW-1 (DUP) (Lab ID: 92138703006)
  - Terphenyl-d14 (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/19741

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92138553004

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 873538)
  - Benzo(a)pyrene
  - Benzo(b)fluoranthene
  - bis(2-Ethylhexyl)phthalate
- MSD (Lab ID: 873539)
  - Benzo(a)pyrene

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PROJECT NARRATIVE

Project: ECI Elon Facility
Pace Project No.: 92138703

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: Gaia Tech
Date: November 28, 2012

QC Batch: OEXT/19741

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92138553004

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- Isophorone
- bis(2-Ethylhexyl)phthalate

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 873538)
  - Benzo(a)pyrene
  - Benzo(b)fluoranthene
  - bis(2-Ethylhexyl)phthalate
- MSD (Lab ID: 873539)
  - Benzo(a)pyrene
  - Isophorone
  - bis(2-Ethylhexyl)phthalate

R1: RPD value was outside control limits.

- MSD (Lab ID: 873539)
  - Phenol

Additional Comments:

Analyte Comments:

QC Batch: OEXT/19741

1g: This comment applies to all compounds with an RPD >30%.

- MSD (Lab ID: 873539)
  - Phenol

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PROJECT NARRATIVE

Project: ECI Elon Facility
Pace Project No.: 92138703

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: Gaia Tech
Date: November 28, 2012

General Information:
4 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/21129

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 874692)
  - Dichlorodifluoromethane

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138703

Sample: ECIE-1112-MW-11 **Lab ID: 92138703001** Collected: 11/09/12 11:30 Received: 11/14/12 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	11/15/12 13:15	11/17/12 12:25	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	11/15/12 13:15	11/17/12 12:25	7440-38-2	
Beryllium	ND	ug/L	1.0	0.50	1	11/15/12 13:15	11/17/12 12:25	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	11/15/12 13:15	11/17/12 12:25	7440-43-9	
Chromium	ND	ug/L	5.0	2.0	1	11/15/12 13:15	11/17/12 12:25	7440-47-3	
Copper	**18.1**	ug/L	5.0	2.0	1	11/15/12 13:15	11/17/12 12:25	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	11/15/12 13:15	11/17/12 12:25	7439-92-1	
Manganese	**73.0**	ug/L	5.0	2.5	1	11/15/12 13:15	11/17/12 12:25	7439-96-5	
Nickel	ND	ug/L	5.0	2.5	1	11/15/12 13:15	11/17/12 12:25	7440-02-0	
Selenium	ND	ug/L	10.0	5.0	1	11/15/12 13:15	11/18/12 17:55	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	11/15/12 13:15	11/17/12 12:25	7440-22-4	
Thallium	ND	ug/L	10.0	5.0	1	11/15/12 13:15	11/18/12 17:55	7440-28-0	
Zinc	**24.6**	ug/L	10.0	5.0	1	11/15/12 13:15	11/17/12 12:25	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	11/19/12 14:10	11/20/12 13:17	7439-97-6	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138703

Sample: ECIE-1112-MW-12 **Lab ID: 92138703002** Collected: 11/09/12 14:00 Received: 11/14/12 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	11/15/12 13:15	11/17/12 12:28	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	11/15/12 13:15	11/17/12 12:28	7440-38-2	
Beryllium	ND	ug/L	1.0	0.50	1	11/15/12 13:15	11/17/12 12:28	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	11/15/12 13:15	11/17/12 12:28	7440-43-9	
Chromium	ND	ug/L	5.0	2.0	1	11/15/12 13:15	11/17/12 12:28	7440-47-3	
Copper	**7.6**	ug/L	5.0	2.0	1	11/15/12 13:15	11/17/12 12:28	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	11/15/12 13:15	11/17/12 12:28	7439-92-1	
Manganese	**103**	ug/L	5.0	2.5	1	11/15/12 13:15	11/17/12 12:28	7439-96-5	
Nickel	ND	ug/L	5.0	2.5	1	11/15/12 13:15	11/17/12 12:28	7440-02-0	
Selenium	ND	ug/L	10.0	5.0	1	11/15/12 13:15	11/18/12 17:58	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	11/15/12 13:15	11/17/12 12:28	7440-22-4	
Thallium	ND	ug/L	10.0	5.0	1	11/15/12 13:15	11/18/12 17:58	7440-28-0	
Zinc	**10.2**	ug/L	10.0	5.0	1	11/15/12 13:15	11/17/12 12:28	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	11/19/12 14:10	11/20/12 13:20	7439-97-6	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138703

Sample: ECIE-1112-MW-13 **Lab ID: 92138703003** Collected: 11/09/12 16:30 Received: 11/14/12 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	11/15/12 13:15	11/17/12 12:31	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	11/15/12 13:15	11/17/12 12:31	7440-38-2	
Beryllium	ND	ug/L	1.0	0.50	1	11/15/12 13:15	11/17/12 12:31	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	11/15/12 13:15	11/17/12 12:31	7440-43-9	
Chromium	ND	ug/L	5.0	2.0	1	11/15/12 13:15	11/17/12 12:31	7440-47-3	
Copper	ND	ug/L	5.0	2.0	1	11/15/12 13:15	11/17/12 12:31	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	11/15/12 13:15	11/17/12 12:31	7439-92-1	
Manganese	**18.1**	ug/L	5.0	2.5	1	11/15/12 13:15	11/17/12 12:31	7439-96-5	
Nickel	ND	ug/L	5.0	2.5	1	11/15/12 13:15	11/17/12 12:31	7440-02-0	
Selenium	ND	ug/L	10.0	5.0	1	11/15/12 13:15	11/18/12 18:01	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	11/15/12 13:15	11/17/12 12:31	7440-22-4	
Thallium	ND	ug/L	10.0	5.0	1	11/15/12 13:15	11/18/12 18:01	7440-28-0	
Zinc	ND	ug/L	10.0	5.0	1	11/15/12 13:15	11/17/12 12:31	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	11/19/12 14:10	11/20/12 13:22	7439-97-6	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138703

Sample: ECIE-1112-MW-10 **Lab ID: 92138703004** Collected: 11/13/12 14:15 Received: 11/14/12 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	5.0	2.6	1	11/15/12 13:15	11/17/12 12:35	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	11/15/12 13:15	11/17/12 12:35	7440-38-2	
Beryllium	ND	ug/L	1.0	0.50	1	11/15/12 13:15	11/17/12 12:35	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	11/15/12 13:15	11/17/12 12:35	7440-43-9	
Chromium	ND	ug/L	5.0	2.0	1	11/15/12 13:15	11/17/12 12:35	7440-47-3	
Copper	ND	ug/L	5.0	2.0	1	11/15/12 13:15	11/17/12 12:35	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	11/15/12 13:15	11/17/12 12:35	7439-92-1	
Manganese	**54.1**	ug/L	5.0	2.5	1	11/15/12 13:15	11/17/12 12:35	7439-96-5	
Nickel	ND	ug/L	5.0	2.5	1	11/15/12 13:15	11/17/12 12:35	7440-02-0	
Selenium	ND	ug/L	10.0	5.0	1	11/15/12 13:15	11/18/12 18:04	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	11/15/12 13:15	11/17/12 12:35	7440-22-4	
Thallium	ND	ug/L	10.0	5.0	1	11/15/12 13:15	11/18/12 18:04	7440-28-0	
Zinc	ND	ug/L	10.0	5.0	1	11/15/12 13:15	11/17/12 12:35	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	11/19/12 14:10	11/20/12 13:25	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270		Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	10.0	0.25	1	11/15/12 15:00	11/19/12 13:41	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	11/15/12 15:00	11/19/12 13:41	208-96-8	
Aniline	ND	ug/L	10.0	2.0	1	11/15/12 15:00	11/19/12 13:41	62-53-3	
Anthracene	ND	ug/L	10.0	0.14	1	11/15/12 15:00	11/19/12 13:41	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	11/15/12 15:00	11/19/12 13:41	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	11/15/12 15:00	11/19/12 13:41	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	11/15/12 15:00	11/19/12 13:41	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	11/15/12 15:00	11/19/12 13:41	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	11/15/12 15:00	11/19/12 13:41	207-08-9	
Benzoic Acid	ND	ug/L	50.0	11.5	1	11/15/12 15:00	11/19/12 13:41	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	11/15/12 15:00	11/19/12 13:41	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	11/15/12 15:00	11/19/12 13:41	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	11/15/12 15:00	11/19/12 13:41	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	11/15/12 15:00	11/19/12 13:41	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	11/15/12 15:00	11/19/12 13:41	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	11/15/12 15:00	11/19/12 13:41	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	11/15/12 15:00	11/19/12 13:41	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	11/15/12 15:00	11/19/12 13:41	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	11/15/12 15:00	11/19/12 13:41	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	11/15/12 15:00	11/19/12 13:41	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	11/15/12 15:00	11/19/12 13:41	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	11/15/12 15:00	11/19/12 13:41	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	11/15/12 15:00	11/19/12 13:41	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.89	1	11/15/12 15:00	11/19/12 13:41	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.88	1	11/15/12 15:00	11/19/12 13:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.81	1	11/15/12 15:00	11/19/12 13:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.95	1	11/15/12 15:00	11/19/12 13:41	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	11/15/12 15:00	11/19/12 13:41	91-94-1	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138703

Sample: ECIE-1112-MW-10 **Lab ID: 92138703004** Collected: 11/13/12 14:15 Received: 11/14/12 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	11/15/12 15:00	11/19/12 13:41	120-83-2	
Diethylphthalate	ND	ug/L	10.0	0.58	1	11/15/12 15:00	11/19/12 13:41	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	11/15/12 15:00	11/19/12 13:41	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	11/15/12 15:00	11/19/12 13:41	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	11/15/12 15:00	11/19/12 13:41	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.6	1	11/15/12 15:00	11/19/12 13:41	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	11/15/12 15:00	11/19/12 13:41	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	11/15/12 15:00	11/19/12 13:41	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	11/15/12 15:00	11/19/12 13:41	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	11/15/12 15:00	11/19/12 13:41	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.79	1	11/15/12 15:00	11/19/12 13:41	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	11/15/12 15:00	11/19/12 13:41	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	11/15/12 15:00	11/19/12 13:41	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	11/15/12 15:00	11/19/12 13:41	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	11/15/12 15:00	11/19/12 13:41	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	11/15/12 15:00	11/19/12 13:41	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	11/15/12 15:00	11/19/12 13:41	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	11/15/12 15:00	11/19/12 13:41	193-39-5	
Isophorone	ND	ug/L	10.0	0.89	1	11/15/12 15:00	11/19/12 13:41	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	0.32	1	11/15/12 15:00	11/19/12 13:41	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	11/15/12 15:00	11/19/12 13:41	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	11/15/12 15:00	11/19/12 13:41	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	11/15/12 15:00	11/19/12 13:41		
Naphthalene	ND	ug/L	10.0	0.34	1	11/15/12 15:00	11/19/12 13:41	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	11/15/12 15:00	11/19/12 13:41	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	11/15/12 15:00	11/19/12 13:41	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	11/15/12 15:00	11/19/12 13:41	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	11/15/12 15:00	11/19/12 13:41	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	11/15/12 15:00	11/19/12 13:41	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	11/15/12 15:00	11/19/12 13:41	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	11/15/12 15:00	11/19/12 13:41	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	11/15/12 15:00	11/19/12 13:41	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	11/15/12 15:00	11/19/12 13:41	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	11/15/12 15:00	11/19/12 13:41	87-86-5	
Phenanthrene	ND	ug/L	10.0	0.22	1	11/15/12 15:00	11/19/12 13:41	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	11/15/12 15:00	11/19/12 13:41	108-95-2	
Pyrene	ND	ug/L	10.0	0.19	1	11/15/12 15:00	11/19/12 13:41	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.98	1	11/15/12 15:00	11/19/12 13:41	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	11/15/12 15:00	11/19/12 13:41	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	11/15/12 15:00	11/19/12 13:41	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	60	%	21-110		1	11/15/12 15:00	11/19/12 13:41	4165-60-0	
2-Fluorobiphenyl (S)	64	%	27-110		1	11/15/12 15:00	11/19/12 13:41	321-60-8	
Terphenyl-d14 (S)	89	%	31-107		1	11/15/12 15:00	11/19/12 13:41	1718-51-0	
Phenol-d6 (S)	20	%	10-110		1	11/15/12 15:00	11/19/12 13:41	13127-88-3	
2-Fluorophenol (S)	30	%	12-110		1	11/15/12 15:00	11/19/12 13:41	367-12-4	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138703

Sample: ECIE-1112-MW-10 **Lab ID: 92138703004** Collected: 11/13/12 14:15 Received: 11/14/12 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Surrogates									
2,4,6-Tribromophenol (S)	77	%	27-110		1	11/15/12 15:00	11/19/12 13:41	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**27.9**	ug/L	25.0	10.0	1		11/17/12 11:14	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		11/17/12 11:14	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		11/17/12 11:14	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/17/12 11:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/17/12 11:14	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/17/12 11:14	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/17/12 11:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/17/12 11:14	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/17/12 11:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		11/17/12 11:14	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/17/12 11:14	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		11/17/12 11:14	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/17/12 11:14	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		11/17/12 11:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		11/17/12 11:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/17/12 11:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/17/12 11:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/17/12 11:14	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/17/12 11:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		11/17/12 11:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/17/12 11:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		11/17/12 11:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		11/17/12 11:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		11/17/12 11:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/17/12 11:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/17/12 11:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		11/17/12 11:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/17/12 11:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/17/12 11:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/17/12 11:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/17/12 11:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/17/12 11:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/17/12 11:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/17/12 11:14	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		11/17/12 11:14	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/17/12 11:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		11/17/12 11:14	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/17/12 11:14	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		11/17/12 11:14	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		11/17/12 11:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/17/12 11:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		11/17/12 11:14	1634-04-4	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138703

Sample: ECIE-1112-MW-10 **Lab ID: 92138703004** Collected: 11/13/12 14:15 Received: 11/14/12 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Naphthalene	ND	ug/L	1.0	0.24	1		11/17/12 11:14	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		11/17/12 11:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/17/12 11:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/17/12 11:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		11/17/12 11:14	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		11/17/12 11:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		11/17/12 11:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/17/12 11:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/17/12 11:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/17/12 11:14	79-00-5	
Trichloroethene	**5.5**	ug/L	1.0	0.47	1		11/17/12 11:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/17/12 11:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/17/12 11:14	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/17/12 11:14	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		11/17/12 11:14	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/17/12 11:14	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/17/12 11:14	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/17/12 11:14	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/17/12 11:14	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		11/17/12 11:14	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		11/17/12 11:14	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		11/17/12 11:14	2037-26-5	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138703

Sample: ECIE-1112-DW-1 **Lab ID: 92138703005** Collected: 11/13/12 17:30 Received: 11/14/12 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	5.0	2.6	1	11/15/12 13:15	11/17/12 12:51	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	11/15/12 13:15	11/17/12 12:51	7440-38-2	
Beryllium	ND	ug/L	1.0	0.50	1	11/15/12 13:15	11/17/12 12:51	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	11/15/12 13:15	11/17/12 12:51	7440-43-9	
Chromium	**12.4**	ug/L	5.0	2.0	1	11/15/12 13:15	11/17/12 12:51	7440-47-3	
Copper	ND	ug/L	5.0	2.0	1	11/15/12 13:15	11/17/12 12:51	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	11/15/12 13:15	11/17/12 12:51	7439-92-1	
Manganese	**7.1**	ug/L	5.0	2.5	1	11/15/12 13:15	11/17/12 12:51	7439-96-5	
Nickel	**6.5**	ug/L	5.0	2.5	1	11/15/12 13:15	11/17/12 12:51	7440-02-0	
Selenium	ND	ug/L	10.0	5.0	1	11/15/12 13:15	11/18/12 18:07	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	11/15/12 13:15	11/17/12 12:51	7440-22-4	
Thallium	ND	ug/L	10.0	5.0	1	11/15/12 13:15	11/18/12 18:07	7440-28-0	
Zinc	ND	ug/L	10.0	5.0	1	11/15/12 13:15	11/17/12 12:51	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	11/19/12 14:10	11/20/12 13:27	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270		Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	10.0	0.25	1	11/15/12 15:00	11/19/12 14:08	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	11/15/12 15:00	11/19/12 14:08	208-96-8	
Aniline	ND	ug/L	10.0	2.0	1	11/15/12 15:00	11/19/12 14:08	62-53-3	
Anthracene	ND	ug/L	10.0	0.14	1	11/15/12 15:00	11/19/12 14:08	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	11/15/12 15:00	11/19/12 14:08	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	11/15/12 15:00	11/19/12 14:08	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	11/15/12 15:00	11/19/12 14:08	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	11/15/12 15:00	11/19/12 14:08	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	11/15/12 15:00	11/19/12 14:08	207-08-9	
Benzoic Acid	ND	ug/L	50.0	11.5	1	11/15/12 15:00	11/19/12 14:08	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	11/15/12 15:00	11/19/12 14:08	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	11/15/12 15:00	11/19/12 14:08	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	11/15/12 15:00	11/19/12 14:08	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	11/15/12 15:00	11/19/12 14:08	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	11/15/12 15:00	11/19/12 14:08	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	11/15/12 15:00	11/19/12 14:08	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	11/15/12 15:00	11/19/12 14:08	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	11/15/12 15:00	11/19/12 14:08	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	11/15/12 15:00	11/19/12 14:08	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	11/15/12 15:00	11/19/12 14:08	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	11/15/12 15:00	11/19/12 14:08	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	11/15/12 15:00	11/19/12 14:08	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	11/15/12 15:00	11/19/12 14:08	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.89	1	11/15/12 15:00	11/19/12 14:08	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.88	1	11/15/12 15:00	11/19/12 14:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.81	1	11/15/12 15:00	11/19/12 14:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.95	1	11/15/12 15:00	11/19/12 14:08	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	11/15/12 15:00	11/19/12 14:08	91-94-1	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138703

Sample: ECIE-1112-DW-1 **Lab ID: 92138703005** Collected: 11/13/12 17:30 Received: 11/14/12 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	11/15/12 15:00	11/19/12 14:08	120-83-2	
Diethylphthalate	ND	ug/L	10.0	0.58	1	11/15/12 15:00	11/19/12 14:08	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	11/15/12 15:00	11/19/12 14:08	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	11/15/12 15:00	11/19/12 14:08	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	11/15/12 15:00	11/19/12 14:08	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.6	1	11/15/12 15:00	11/19/12 14:08	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	11/15/12 15:00	11/19/12 14:08	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	11/15/12 15:00	11/19/12 14:08	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	11/15/12 15:00	11/19/12 14:08	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	11/15/12 15:00	11/19/12 14:08	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.79	1	11/15/12 15:00	11/19/12 14:08	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	11/15/12 15:00	11/19/12 14:08	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	11/15/12 15:00	11/19/12 14:08	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	11/15/12 15:00	11/19/12 14:08	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	11/15/12 15:00	11/19/12 14:08	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	11/15/12 15:00	11/19/12 14:08	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	11/15/12 15:00	11/19/12 14:08	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	11/15/12 15:00	11/19/12 14:08	193-39-5	
Isophorone	ND	ug/L	10.0	0.89	1	11/15/12 15:00	11/19/12 14:08	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	0.32	1	11/15/12 15:00	11/19/12 14:08	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	11/15/12 15:00	11/19/12 14:08	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	11/15/12 15:00	11/19/12 14:08	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	11/15/12 15:00	11/19/12 14:08		
Naphthalene	ND	ug/L	10.0	0.34	1	11/15/12 15:00	11/19/12 14:08	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	11/15/12 15:00	11/19/12 14:08	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	11/15/12 15:00	11/19/12 14:08	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	11/15/12 15:00	11/19/12 14:08	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	11/15/12 15:00	11/19/12 14:08	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	11/15/12 15:00	11/19/12 14:08	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	11/15/12 15:00	11/19/12 14:08	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	11/15/12 15:00	11/19/12 14:08	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	11/15/12 15:00	11/19/12 14:08	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	11/15/12 15:00	11/19/12 14:08	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	11/15/12 15:00	11/19/12 14:08	87-86-5	
Phenanthrene	ND	ug/L	10.0	0.22	1	11/15/12 15:00	11/19/12 14:08	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	11/15/12 15:00	11/19/12 14:08	108-95-2	
Pyrene	ND	ug/L	10.0	0.19	1	11/15/12 15:00	11/19/12 14:08	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.98	1	11/15/12 15:00	11/19/12 14:08	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	11/15/12 15:00	11/19/12 14:08	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	11/15/12 15:00	11/19/12 14:08	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	61	%	21-110		1	11/15/12 15:00	11/19/12 14:08	4165-60-0	
2-Fluorobiphenyl (S)	65	%	27-110		1	11/15/12 15:00	11/19/12 14:08	321-60-8	
Terphenyl-d14 (S)	104	%	31-107		1	11/15/12 15:00	11/19/12 14:08	1718-51-0	
Phenol-d6 (S)	20	%	10-110		1	11/15/12 15:00	11/19/12 14:08	13127-88-3	
2-Fluorophenol (S)	31	%	12-110		1	11/15/12 15:00	11/19/12 14:08	367-12-4	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138703

Sample: ECIE-1112-DW-1 **Lab ID: 92138703005** Collected: 11/13/12 17:30 Received: 11/14/12 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Surrogates									
2,4,6-Tribromophenol (S)	66	%	27-110		1	11/15/12 15:00	11/19/12 14:08	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		11/17/12 11:30	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		11/17/12 11:30	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		11/17/12 11:30	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/17/12 11:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/17/12 11:30	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/17/12 11:30	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/17/12 11:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/17/12 11:30	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/17/12 11:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		11/17/12 11:30	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/17/12 11:30	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		11/17/12 11:30	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/17/12 11:30	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		11/17/12 11:30	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		11/17/12 11:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/17/12 11:30	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/17/12 11:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/17/12 11:30	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/17/12 11:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		11/17/12 11:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/17/12 11:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		11/17/12 11:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		11/17/12 11:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		11/17/12 11:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/17/12 11:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/17/12 11:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		11/17/12 11:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/17/12 11:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/17/12 11:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/17/12 11:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/17/12 11:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/17/12 11:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/17/12 11:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/17/12 11:30	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		11/17/12 11:30	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/17/12 11:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		11/17/12 11:30	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/17/12 11:30	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		11/17/12 11:30	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		11/17/12 11:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/17/12 11:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		11/17/12 11:30	1634-04-4	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138703

Sample: ECIE-1112-DW-1 **Lab ID: 92138703005** Collected: 11/13/12 17:30 Received: 11/14/12 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Naphthalene	ND	ug/L	1.0	0.24	1		11/17/12 11:30	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		11/17/12 11:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/17/12 11:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/17/12 11:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		11/17/12 11:30	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		11/17/12 11:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		11/17/12 11:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/17/12 11:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/17/12 11:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/17/12 11:30	79-00-5	
Trichloroethene	**95.8**	ug/L	1.0	0.47	1		11/17/12 11:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/17/12 11:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/17/12 11:30	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/17/12 11:30	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		11/17/12 11:30	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/17/12 11:30	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/17/12 11:30	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/17/12 11:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/17/12 11:30	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		11/17/12 11:30	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		11/17/12 11:30	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/17/12 11:30	2037-26-5	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138703

Sample: ECIE-1112-DW-1 (DUP) **Lab ID: 92138703006** Collected: 11/13/12 17:35 Received: 11/14/12 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	5.0	2.6	1	11/15/12 13:15	11/17/12 12:54	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	11/15/12 13:15	11/17/12 12:54	7440-38-2	
Beryllium	ND	ug/L	1.0	0.50	1	11/15/12 13:15	11/17/12 12:54	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	11/15/12 13:15	11/17/12 12:54	7440-43-9	
Chromium	**22.4**	ug/L	5.0	2.0	1	11/15/12 13:15	11/17/12 12:54	7440-47-3	
Copper	ND	ug/L	5.0	2.0	1	11/15/12 13:15	11/17/12 12:54	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	11/15/12 13:15	11/17/12 12:54	7439-92-1	
Manganese	**6.7**	ug/L	5.0	2.5	1	11/15/12 13:15	11/17/12 12:54	7439-96-5	
Nickel	**12.4**	ug/L	5.0	2.5	1	11/15/12 13:15	11/17/12 12:54	7440-02-0	
Selenium	ND	ug/L	10.0	5.0	1	11/15/12 13:15	11/18/12 18:10	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	11/15/12 13:15	11/17/12 12:54	7440-22-4	
Thallium	ND	ug/L	10.0	5.0	1	11/15/12 13:15	11/18/12 18:10	7440-28-0	
Zinc	ND	ug/L	10.0	5.0	1	11/15/12 13:15	11/17/12 12:54	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	11/19/12 14:10	11/20/12 13:30	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270		Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	10.0	0.25	1	11/15/12 15:00	11/19/12 22:47	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	11/15/12 15:00	11/19/12 22:47	208-96-8	
Aniline	ND	ug/L	10.0	2.0	1	11/15/12 15:00	11/19/12 22:47	62-53-3	
Anthracene	ND	ug/L	10.0	0.14	1	11/15/12 15:00	11/19/12 22:47	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	11/15/12 15:00	11/19/12 22:47	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	11/15/12 15:00	11/19/12 22:47	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	11/15/12 15:00	11/19/12 22:47	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	11/15/12 15:00	11/19/12 22:47	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	11/15/12 15:00	11/19/12 22:47	207-08-9	
Benzoic Acid	ND	ug/L	50.0	11.5	1	11/15/12 15:00	11/19/12 22:47	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	11/15/12 15:00	11/19/12 22:47	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	11/15/12 15:00	11/19/12 22:47	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	11/15/12 15:00	11/19/12 22:47	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	11/15/12 15:00	11/19/12 22:47	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	11/15/12 15:00	11/19/12 22:47	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	11/15/12 15:00	11/19/12 22:47	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	11/15/12 15:00	11/19/12 22:47	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	11/15/12 15:00	11/19/12 22:47	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	11/15/12 15:00	11/19/12 22:47	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	11/15/12 15:00	11/19/12 22:47	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	11/15/12 15:00	11/19/12 22:47	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	11/15/12 15:00	11/19/12 22:47	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	11/15/12 15:00	11/19/12 22:47	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.89	1	11/15/12 15:00	11/19/12 22:47	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.88	1	11/15/12 15:00	11/19/12 22:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.81	1	11/15/12 15:00	11/19/12 22:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.95	1	11/15/12 15:00	11/19/12 22:47	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	11/15/12 15:00	11/19/12 22:47	91-94-1	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138703

Sample: ECIE-1112-DW-1 (DUP) **Lab ID: 92138703006** Collected: 11/13/12 17:35 Received: 11/14/12 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	11/15/12 15:00	11/19/12 22:47	120-83-2	
Diethylphthalate	ND	ug/L	10.0	0.58	1	11/15/12 15:00	11/19/12 22:47	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	11/15/12 15:00	11/19/12 22:47	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	11/15/12 15:00	11/19/12 22:47	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	11/15/12 15:00	11/19/12 22:47	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.6	1	11/15/12 15:00	11/19/12 22:47	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	11/15/12 15:00	11/19/12 22:47	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	11/15/12 15:00	11/19/12 22:47	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	11/15/12 15:00	11/19/12 22:47	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	11/15/12 15:00	11/19/12 22:47	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.79	1	11/15/12 15:00	11/19/12 22:47	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	11/15/12 15:00	11/19/12 22:47	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	11/15/12 15:00	11/19/12 22:47	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	11/15/12 15:00	11/19/12 22:47	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	11/15/12 15:00	11/19/12 22:47	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	11/15/12 15:00	11/19/12 22:47	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	11/15/12 15:00	11/19/12 22:47	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	11/15/12 15:00	11/19/12 22:47	193-39-5	
Isophorone	ND	ug/L	10.0	0.89	1	11/15/12 15:00	11/19/12 22:47	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	0.32	1	11/15/12 15:00	11/19/12 22:47	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	11/15/12 15:00	11/19/12 22:47	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	11/15/12 15:00	11/19/12 22:47	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	11/15/12 15:00	11/19/12 22:47		
Naphthalene	ND	ug/L	10.0	0.34	1	11/15/12 15:00	11/19/12 22:47	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	11/15/12 15:00	11/19/12 22:47	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	11/15/12 15:00	11/19/12 22:47	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	11/15/12 15:00	11/19/12 22:47	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	11/15/12 15:00	11/19/12 22:47	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	11/15/12 15:00	11/19/12 22:47	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	11/15/12 15:00	11/19/12 22:47	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	11/15/12 15:00	11/19/12 22:47	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	11/15/12 15:00	11/19/12 22:47	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	11/15/12 15:00	11/19/12 22:47	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	11/15/12 15:00	11/19/12 22:47	87-86-5	
Phenanthrene	ND	ug/L	10.0	0.22	1	11/15/12 15:00	11/19/12 22:47	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	11/15/12 15:00	11/19/12 22:47	108-95-2	
Pyrene	ND	ug/L	10.0	0.19	1	11/15/12 15:00	11/19/12 22:47	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.98	1	11/15/12 15:00	11/19/12 22:47	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	11/15/12 15:00	11/19/12 22:47	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	11/15/12 15:00	11/19/12 22:47	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	73	%	21-110		1	11/15/12 15:00	11/19/12 22:47	4165-60-0	
2-Fluorobiphenyl (S)	79	%	27-110		1	11/15/12 15:00	11/19/12 22:47	321-60-8	
Terphenyl-d14 (S)	108	%	31-107		1	11/15/12 15:00	11/19/12 22:47	1718-51-0	S0
Phenol-d6 (S)	22	%	10-110		1	11/15/12 15:00	11/19/12 22:47	13127-88-3	
2-Fluorophenol (S)	33	%	12-110		1	11/15/12 15:00	11/19/12 22:47	367-12-4	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138703

Sample: ECIE-1112-DW-1 (DUP) **Lab ID: 92138703006** Collected: 11/13/12 17:35 Received: 11/14/12 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Surrogates									
2,4,6-Tribromophenol (S)	83	%	27-110		1	11/15/12 15:00	11/19/12 22:47	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		11/17/12 11:46	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		11/17/12 11:46	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		11/17/12 11:46	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/17/12 11:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/17/12 11:46	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/17/12 11:46	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/17/12 11:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/17/12 11:46	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/17/12 11:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		11/17/12 11:46	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/17/12 11:46	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		11/17/12 11:46	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/17/12 11:46	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		11/17/12 11:46	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		11/17/12 11:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/17/12 11:46	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/17/12 11:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/17/12 11:46	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/17/12 11:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		11/17/12 11:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/17/12 11:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		11/17/12 11:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		11/17/12 11:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		11/17/12 11:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/17/12 11:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/17/12 11:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		11/17/12 11:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/17/12 11:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/17/12 11:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/17/12 11:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/17/12 11:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/17/12 11:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/17/12 11:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/17/12 11:46	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		11/17/12 11:46	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/17/12 11:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		11/17/12 11:46	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/17/12 11:46	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		11/17/12 11:46	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		11/17/12 11:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/17/12 11:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		11/17/12 11:46	1634-04-4	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138703

Sample: ECIE-1112-DW-1 (DUP) **Lab ID: 92138703006** Collected: 11/13/12 17:35 Received: 11/14/12 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Naphthalene	ND	ug/L	1.0	0.24	1		11/17/12 11:46	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		11/17/12 11:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/17/12 11:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/17/12 11:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		11/17/12 11:46	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		11/17/12 11:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		11/17/12 11:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/17/12 11:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/17/12 11:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/17/12 11:46	79-00-5	
Trichloroethene	**96.1**	ug/L	1.0	0.47	1		11/17/12 11:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/17/12 11:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/17/12 11:46	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/17/12 11:46	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		11/17/12 11:46	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/17/12 11:46	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/17/12 11:46	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/17/12 11:46	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/17/12 11:46	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		11/17/12 11:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		11/17/12 11:46	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/17/12 11:46	2037-26-5	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138703

Sample: TRIP BLANK **Lab ID: 92138703007** Collected: 11/13/12 00:00 Received: 11/14/12 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		11/17/12 10:58	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		11/17/12 10:58	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		11/17/12 10:58	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/17/12 10:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/17/12 10:58	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/17/12 10:58	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/17/12 10:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/17/12 10:58	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/17/12 10:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		11/17/12 10:58	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/17/12 10:58	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		11/17/12 10:58	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/17/12 10:58	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		11/17/12 10:58	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		11/17/12 10:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/17/12 10:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/17/12 10:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/17/12 10:58	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/17/12 10:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		11/17/12 10:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/17/12 10:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		11/17/12 10:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		11/17/12 10:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		11/17/12 10:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/17/12 10:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/17/12 10:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		11/17/12 10:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/17/12 10:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/17/12 10:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/17/12 10:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/17/12 10:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/17/12 10:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/17/12 10:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/17/12 10:58	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		11/17/12 10:58	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/17/12 10:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		11/17/12 10:58	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/17/12 10:58	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		11/17/12 10:58	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		11/17/12 10:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/17/12 10:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		11/17/12 10:58	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		11/17/12 10:58	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		11/17/12 10:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/17/12 10:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/17/12 10:58	79-34-5	

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ANALYTICAL RESULTS

Project: ECI Elon Facility
Pace Project No.: 92138703

Sample: TRIP BLANK **Lab ID: 92138703007** Collected: 11/13/12 00:00 Received: 11/14/12 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	ND	ug/L	1.0	0.46	1		11/17/12 10:58	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		11/17/12 10:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		11/17/12 10:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/17/12 10:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/17/12 10:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/17/12 10:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		11/17/12 10:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/17/12 10:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/17/12 10:58	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/17/12 10:58	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		11/17/12 10:58	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/17/12 10:58	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/17/12 10:58	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/17/12 10:58	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/17/12 10:58	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		11/17/12 10:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/17/12 10:58	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		11/17/12 10:58	2037-26-5	

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138703

QC Batch: MERP/4692 — Analysis Method: EPA 7470
QC Batch Method: EPA 7470 — Analysis Description: 7470 Mercury
Associated Lab Samples: 92138703001, 92138703002, 92138703003, 92138703004, 92138703005, 92138703006

METHOD BLANK: 875562 — Matrix: Water
Associated Lab Samples: 92138703001, 92138703002, 92138703003, 92138703004, 92138703005, 92138703006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	11/20/12 12:42	

LABORATORY CONTROL SAMPLE: 875563

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.2	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 875564 875565

Parameter	Units	92138121063 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.58	2.5	2.5	2.6	2.6	82	82	75-125	0	25	

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138703

QC Batch: MPRP/11983 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 92138703001, 92138703002, 92138703003, 92138703004, 92138703005, 92138703006

METHOD BLANK: 872991 Matrix: Water
Associated Lab Samples: 92138703001, 92138703002, 92138703003, 92138703004, 92138703005, 92138703006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	11/17/12 11:29	
Arsenic	ug/L	ND	5.0	11/17/12 11:29	
Beryllium	ug/L	ND	1.0	11/17/12 11:29	
Cadmium	ug/L	ND	1.0	11/17/12 11:29	
Chromium	ug/L	ND	5.0	11/17/12 11:29	
Copper	ug/L	ND	5.0	11/17/12 11:29	
Lead	ug/L	ND	5.0	11/17/12 11:29	
Manganese	ug/L	ND	5.0	11/17/12 11:29	
Nickel	ug/L	ND	5.0	11/17/12 11:29	
Selenium	ug/L	ND	10.0	11/17/12 11:29	
Silver	ug/L	ND	5.0	11/17/12 11:29	
Thallium	ug/L	ND	10.0	11/17/12 11:29	
Zinc	ug/L	ND	10.0	11/17/12 11:29	

LABORATORY CONTROL SAMPLE: 872992

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	519	104	80-120	
Arsenic	ug/L	500	518	104	80-120	
Beryllium	ug/L	500	554	111	80-120	
Cadmium	ug/L	500	515	103	80-120	
Chromium	ug/L	500	527	105	80-120	
Copper	ug/L	500	517	103	80-120	
Lead	ug/L	500	507	101	80-120	
Manganese	ug/L	500	529	106	80-120	
Nickel	ug/L	500	507	101	80-120	
Selenium	ug/L	500	521	104	80-120	
Silver	ug/L	250	257	103	80-120	
Thallium	ug/L	500	493	99	80-120	
Zinc	ug/L	500	516	103	80-120	

MATRIX SPIKE SAMPLE: 872993

Parameter	Units	92138121058 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	520	104	75-125	
Arsenic	ug/L	2.8J	500	514	102	75-125	
Beryllium	ug/L	ND	500	553	111	75-125	
Cadmium	ug/L	ND	500	512	102	75-125	
Chromium	ug/L	ND	500	531	106	75-125	
Copper	ug/L	2.6J	500	521	104	75-125	

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138703

MATRIX SPIKE SAMPLE: 872993

Parameter	Units	92138121058 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	500	507	101	75-125	
Manganese	ug/L	4.4J	500	532	106	75-125	
Nickel	ug/L	4.5J	500	510	101	75-125	
Selenium	ug/L	ND	500	522	104	75-125	
Silver	ug/L	ND	250	258	103	75-125	
Thallium	ug/L	6.0J	500	492	97	75-125	
Zinc	ug/L	7.4J	500	521	103	75-125	

SAMPLE DUPLICATE: 872994

Parameter	Units	92138121059 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		20	
Arsenic	ug/L	ND	ND		20	
Beryllium	ug/L	ND	ND		20	
Cadmium	ug/L	ND	ND		20	
Chromium	ug/L	ND	ND		20	
Copper	ug/L	21.3	21.9	3	20	
Lead	ug/L	ND	ND		20	
Manganese	ug/L	8.6	8.9	4	20	
Nickel	ug/L	2.8J	2.6J		20	
Selenium	ug/L	ND	ND		20	
Silver	ug/L	ND	ND		20	
Thallium	ug/L	5.9J	ND		20	
Zinc	ug/L	8.2J	9.8J		20	

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138703

QC Batch: MSV/21129 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92138703004, 92138703005, 92138703006, 92138703007

METHOD BLANK: 874691 Matrix: Water
Associated Lab Samples: 92138703004, 92138703005, 92138703006, 92138703007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/17/12 01:58	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/17/12 01:58	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/17/12 01:58	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/17/12 01:58	
1,1-Dichloroethane	ug/L	ND	1.0	11/17/12 01:58	
1,1-Dichloroethene	ug/L	ND	1.0	11/17/12 01:58	
1,1-Dichloropropene	ug/L	ND	1.0	11/17/12 01:58	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/17/12 01:58	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/17/12 01:58	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/17/12 01:58	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	11/17/12 01:58	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/17/12 01:58	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/17/12 01:58	
1,2-Dichloroethane	ug/L	ND	1.0	11/17/12 01:58	
1,2-Dichloropropane	ug/L	ND	1.0	11/17/12 01:58	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/17/12 01:58	
1,3-Dichloropropane	ug/L	ND	1.0	11/17/12 01:58	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/17/12 01:58	
2,2-Dichloropropane	ug/L	ND	1.0	11/17/12 01:58	
2-Butanone (MEK)	ug/L	ND	5.0	11/17/12 01:58	
2-Chlorotoluene	ug/L	ND	1.0	11/17/12 01:58	
2-Hexanone	ug/L	ND	5.0	11/17/12 01:58	
4-Chlorotoluene	ug/L	ND	1.0	11/17/12 01:58	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/17/12 01:58	
Acetone	ug/L	ND	25.0	11/17/12 01:58	
Benzene	ug/L	ND	1.0	11/17/12 01:58	
Bromobenzene	ug/L	ND	1.0	11/17/12 01:58	
Bromochloromethane	ug/L	ND	1.0	11/17/12 01:58	
Bromodichloromethane	ug/L	ND	1.0	11/17/12 01:58	
Bromoform	ug/L	ND	1.0	11/17/12 01:58	
Bromomethane	ug/L	ND	2.0	11/17/12 01:58	
Carbon tetrachloride	ug/L	ND	1.0	11/17/12 01:58	
Chlorobenzene	ug/L	ND	1.0	11/17/12 01:58	
Chloroethane	ug/L	ND	1.0	11/17/12 01:58	
Chloroform	ug/L	ND	1.0	11/17/12 01:58	
Chloromethane	ug/L	ND	1.0	11/17/12 01:58	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/17/12 01:58	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/17/12 01:58	
Dibromochloromethane	ug/L	ND	1.0	11/17/12 01:58	
Dibromomethane	ug/L	ND	1.0	11/17/12 01:58	
Dichlorodifluoromethane	ug/L	ND	1.0	11/17/12 01:58	
Diisopropyl ether	ug/L	ND	1.0	11/17/12 01:58	
Ethylbenzene	ug/L	ND	1.0	11/17/12 01:58	

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138703

METHOD BLANK: 874691 Matrix: Water

Associated Lab Samples: 92138703004, 92138703005, 92138703006, 92138703007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	11/17/12 01:58	
m&p-Xylene	ug/L	ND	2.0	11/17/12 01:58	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/17/12 01:58	
Methylene Chloride	ug/L	ND	2.0	11/17/12 01:58	
Naphthalene	ug/L	ND	1.0	11/17/12 01:58	
o-Xylene	ug/L	ND	1.0	11/17/12 01:58	
p-Isopropyltoluene	ug/L	ND	1.0	11/17/12 01:58	
Styrene	ug/L	ND	1.0	11/17/12 01:58	
Tetrachloroethene	ug/L	ND	1.0	11/17/12 01:58	
Toluene	ug/L	ND	1.0	11/17/12 01:58	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/17/12 01:58	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/17/12 01:58	
Trichloroethene	ug/L	ND	1.0	11/17/12 01:58	
Trichlorofluoromethane	ug/L	ND	1.0	11/17/12 01:58	
Vinyl acetate	ug/L	ND	2.0	11/17/12 01:58	
Vinyl chloride	ug/L	ND	1.0	11/17/12 01:58	
Xylene (Total)	ug/L	ND	2.0	11/17/12 01:58	
1,2-Dichloroethane-d4 (S)	%	98	70-130	11/17/12 01:58	
4-Bromofluorobenzene (S)	%	97	70-130	11/17/12 01:58	
Dibromofluoromethane (S)	%	98	70-130	11/17/12 01:58	
Toluene-d8 (S)	%	100	70-130	11/17/12 01:58	

LABORATORY CONTROL SAMPLE: 874692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.0	96	70-130	
1,1,1-Trichloroethane	ug/L	50	51.4	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.7	95	70-130	
1,1,2-Trichloroethane	ug/L	50	51.1	102	70-130	
1,1-Dichloroethane	ug/L	50	51.3	103	70-130	
1,1-Dichloroethene	ug/L	50	61.4	123	70-132	
1,1-Dichloropropene	ug/L	50	53.3	107	70-130	
1,2,3-Trichlorobenzene	ug/L	50	47.5	95	70-135	
1,2,3-Trichloropropane	ug/L	50	47.0	94	70-130	
1,2,4-Trichlorobenzene	ug/L	50	48.2	96	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	48.7	97	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.2	100	70-130	
1,2-Dichlorobenzene	ug/L	50	51.6	103	70-130	
1,2-Dichloroethane	ug/L	50	46.5	93	70-130	
1,2-Dichloropropane	ug/L	50	50.6	101	70-130	
1,3-Dichlorobenzene	ug/L	50	51.8	104	70-130	
1,3-Dichloropropane	ug/L	50	49.1	98	70-130	
1,4-Dichlorobenzene	ug/L	50	51.0	102	70-130	
2,2-Dichloropropane	ug/L	50	40.1	80	58-145	
2-Butanone (MEK)	ug/L	100	96.6	97	70-145	

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138703

LABORATORY CONTROL SAMPLE: 874692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chlorotoluene	ug/L	50	52.2	104	70-130	
2-Hexanone	ug/L	100	113	113	70-144	
4-Chlorotoluene	ug/L	50	52.2	104	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	70-140	
Acetone	ug/L	100	91.0	91	50-175	
Benzene	ug/L	50	53.7	107	70-130	
Bromobenzene	ug/L	50	51.9	104	70-130	
Bromochloromethane	ug/L	50	47.9	96	70-130	
Bromodichloromethane	ug/L	50	50.5	101	70-130	
Bromoform	ug/L	50	49.9	100	70-130	
Bromomethane	ug/L	50	57.0	114	54-130	
Carbon tetrachloride	ug/L	50	53.8	108	70-132	
Chlorobenzene	ug/L	50	51.8	104	70-130	
Chloroethane	ug/L	50	57.2	114	64-134	
Chloroform	ug/L	50	47.9	96	70-130	
Chloromethane	ug/L	50	64.8	130	64-130	
cis-1,2-Dichloroethene	ug/L	50	50.2	100	70-131	
cis-1,3-Dichloropropene	ug/L	50	48.5	97	70-130	
Dibromochloromethane	ug/L	50	49.8	100	70-130	
Dibromomethane	ug/L	50	49.3	99	70-131	
Dichlorodifluoromethane	ug/L	50	67.4	135	56-130	L0
Diisopropyl ether	ug/L	50	51.1	102	70-130	
Ethylbenzene	ug/L	50	52.3	105	70-130	
Hexachloro-1,3-butadiene	ug/L	50	47.3	95	70-130	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	47.3	95	70-130	
Methylene Chloride	ug/L	50	50.7	101	63-130	
Naphthalene	ug/L	50	49.3	99	70-138	
o-Xylene	ug/L	50	50.0	100	70-130	
p-Isopropyltoluene	ug/L	50	50.5	101	70-130	
Styrene	ug/L	50	50.2	100	70-130	
Tetrachloroethene	ug/L	50	51.7	103	70-130	
Toluene	ug/L	50	53.0	106	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.5	101	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.9	98	70-132	
Trichloroethene	ug/L	50	51.8	104	70-130	
Trichlorofluoromethane	ug/L	50	65.7	131	62-133	
Vinyl acetate	ug/L	100	91.6	92	66-157	
Vinyl chloride	ug/L	50	53.7	107	69-130	
Xylene (Total)	ug/L	150	153	102	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			92	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138703

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 874693 874694

Parameter	Units	92138553004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	74.2	62.8	148	126	70-166	17	30	
Benzene	ug/L	ND	50	50	57.1	53.3	114	106	70-148	7	30	
Chlorobenzene	ug/L	ND	50	50	61.6	57.4	123	115	70-146	7	30	
Toluene	ug/L	ND	50	50	63.1	58.2	126	116	70-155	8	30	
Trichloroethene	ug/L	ND	50	50	64.7	60.3	129	120	69-151	7	30	
1,2-Dichloroethane-d4 (S)	%						95	99	70-130			
4-Bromofluorobenzene (S)	%						97	97	70-130			
Dibromofluoromethane (S)	%						97	100	70-130			
Toluene-d8 (S)	%						100	100	70-130			

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138703

QC Batch: OEXT/19741 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
Associated Lab Samples: 92138703004, 92138703005, 92138703006

METHOD BLANK: 873536 Matrix: Water
Associated Lab Samples: 92138703004, 92138703005, 92138703006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	11/19/12 12:47	
1,2-Dichlorobenzene	ug/L	ND	10.0	11/19/12 12:47	
1,3-Dichlorobenzene	ug/L	ND	10.0	11/19/12 12:47	
1,4-Dichlorobenzene	ug/L	ND	10.0	11/19/12 12:47	
1-Methylnaphthalene	ug/L	ND	10.0	11/19/12 12:47	
2,4,5-Trichlorophenol	ug/L	ND	10.0	11/19/12 12:47	
2,4,6-Trichlorophenol	ug/L	ND	10.0	11/19/12 12:47	
2,4-Dichlorophenol	ug/L	ND	10.0	11/19/12 12:47	
2,4-Dimethylphenol	ug/L	ND	10.0	11/19/12 12:47	
2,4-Dinitrophenol	ug/L	ND	50.0	11/19/12 12:47	
2,4-Dinitrotoluene	ug/L	ND	10.0	11/19/12 12:47	
2,6-Dinitrotoluene	ug/L	ND	10.0	11/19/12 12:47	
2-Chloronaphthalene	ug/L	ND	10.0	11/19/12 12:47	
2-Chlorophenol	ug/L	ND	10.0	11/19/12 12:47	
2-Methylnaphthalene	ug/L	ND	10.0	11/19/12 12:47	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	11/19/12 12:47	
2-Nitroaniline	ug/L	ND	50.0	11/19/12 12:47	
2-Nitrophenol	ug/L	ND	10.0	11/19/12 12:47	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	11/19/12 12:47	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	11/19/12 12:47	
3-Nitroaniline	ug/L	ND	50.0	11/19/12 12:47	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	11/19/12 12:47	
4-Bromophenylphenyl ether	ug/L	ND	10.0	11/19/12 12:47	
4-Chloro-3-methylphenol	ug/L	ND	20.0	11/19/12 12:47	
4-Chloroaniline	ug/L	ND	20.0	11/19/12 12:47	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	11/19/12 12:47	
4-Nitroaniline	ug/L	ND	20.0	11/19/12 12:47	
4-Nitrophenol	ug/L	ND	50.0	11/19/12 12:47	
Acenaphthene	ug/L	ND	10.0	11/19/12 12:47	
Acenaphthylene	ug/L	ND	10.0	11/19/12 12:47	
Aniline	ug/L	ND	10.0	11/19/12 12:47	
Anthracene	ug/L	ND	10.0	11/19/12 12:47	
Benzo(a)anthracene	ug/L	ND	10.0	11/19/12 12:47	
Benzo(a)pyrene	ug/L	ND	10.0	11/19/12 12:47	
Benzo(b)fluoranthene	ug/L	ND	10.0	11/19/12 12:47	
Benzo(g,h,i)perylene	ug/L	ND	10.0	11/19/12 12:47	
Benzo(k)fluoranthene	ug/L	ND	10.0	11/19/12 12:47	
Benzoic Acid	ug/L	ND	50.0	11/19/12 12:47	
Benzyl alcohol	ug/L	ND	20.0	11/19/12 12:47	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	11/19/12 12:47	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	11/19/12 12:47	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	11/19/12 12:47	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	11/19/12 12:47	

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138703

METHOD BLANK: 873536 Matrix: Water

Associated Lab Samples: 92138703004, 92138703005, 92138703006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	ug/L	ND	10.0	11/19/12 12:47	
Chrysene	ug/L	ND	10.0	11/19/12 12:47	
Di-n-butylphthalate	ug/L	ND	10.0	11/19/12 12:47	
Di-n-octylphthalate	ug/L	ND	10.0	11/19/12 12:47	
Dibenz(a,h)anthracene	ug/L	ND	10.0	11/19/12 12:47	
Dibenzofuran	ug/L	ND	10.0	11/19/12 12:47	
Diethylphthalate	ug/L	ND	10.0	11/19/12 12:47	
Dimethylphthalate	ug/L	ND	10.0	11/19/12 12:47	
Fluoranthene	ug/L	ND	10.0	11/19/12 12:47	
Fluorene	ug/L	ND	10.0	11/19/12 12:47	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	11/19/12 12:47	
Hexachlorobenzene	ug/L	ND	10.0	11/19/12 12:47	
Hexachlorocyclopentadiene	ug/L	ND	10.0	11/19/12 12:47	
Hexachloroethane	ug/L	ND	10.0	11/19/12 12:47	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	11/19/12 12:47	
Isophorone	ug/L	ND	10.0	11/19/12 12:47	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	11/19/12 12:47	
N-Nitrosodimethylamine	ug/L	ND	10.0	11/19/12 12:47	
N-Nitrosodiphenylamine	ug/L	ND	10.0	11/19/12 12:47	
Naphthalene	ug/L	ND	10.0	11/19/12 12:47	
Nitrobenzene	ug/L	ND	10.0	11/19/12 12:47	
Pentachlorophenol	ug/L	ND	25.0	11/19/12 12:47	
Phenanthrene	ug/L	ND	10.0	11/19/12 12:47	
Phenol	ug/L	ND	10.0	11/19/12 12:47	
Pyrene	ug/L	ND	10.0	11/19/12 12:47	
2,4,6-Tribromophenol (S)	%	73	27-110	11/19/12 12:47	
2-Fluorobiphenyl (S)	%	73	27-110	11/19/12 12:47	
2-Fluorophenol (S)	%	35	12-110	11/19/12 12:47	
Nitrobenzene-d5 (S)	%	68	21-110	11/19/12 12:47	
Phenol-d6 (S)	%	25	10-110	11/19/12 12:47	
Terphenyl-d14 (S)	%	105	31-107	11/19/12 12:47	

LABORATORY CONTROL SAMPLE: 873537

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	27.8	56	10-110	
1,2-Dichlorobenzene	ug/L	50	28.6	57	10-110	
1,3-Dichlorobenzene	ug/L	50	26.7	53	10-110	
1,4-Dichlorobenzene	ug/L	50	27.4	55	10-110	
1-Methylnaphthalene	ug/L	50	34.9	70	21-110	
2,4,5-Trichlorophenol	ug/L	50	39.2	78	23-116	
2,4,6-Trichlorophenol	ug/L	50	38.6	77	21-114	
2,4-Dichlorophenol	ug/L	50	36.8	74	22-120	
2,4-Dimethylphenol	ug/L	50	33.5	67	15-109	
2,4-Dinitrophenol	ug/L	250	199	80	10-103	

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138703

LABORATORY CONTROL SAMPLE: 873537

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/L	50	36.4	73	24-119	
2,6-Dinitrotoluene	ug/L	50	33.7	67	25-116	
2-Chloronaphthalene	ug/L	50	34.4	69	18-110	
2-Chlorophenol	ug/L	50	35.4	71	10-104	
2-Methylnaphthalene	ug/L	50	34.6	69	16-110	
2-Methylphenol(o-Cresol)	ug/L	50	31.8	64	13-110	
2-Nitroaniline	ug/L	100	79.2	79	20-117	
2-Nitrophenol	ug/L	50	39.5	79	16-108	
3&4-Methylphenol(m&p Cresol)	ug/L	50	28.6	57	14-110	
3,3'-Dichlorobenzidine	ug/L	100	89.5	90	13-131	
3-Nitroaniline	ug/L	100	72.6	73	15-117	
4,6-Dinitro-2-methylphenol	ug/L	100	87.5	87	13-119	
4-Bromophenylphenyl ether	ug/L	50	43.3	87	23-120	
4-Chloro-3-methylphenol	ug/L	100	71.6	72	21-119	
4-Chloroaniline	ug/L	100	61.2	61	10-122	
4-Chlorophenylphenyl ether	ug/L	50	40.1	80	22-112	
4-Nitroaniline	ug/L	100	83.7	84	14-118	
4-Nitrophenol	ug/L	250	93.0	37	10-110	
Acenaphthene	ug/L	50	39.8	80	20-105	
Acenaphthylene	ug/L	50	39.2	78	23-106	
Aniline	ug/L	50	19.1	38	10-110	
Anthracene	ug/L	50	43.7	87	25-120	
Benzo(a)anthracene	ug/L	50	49.3	99	21-128	
Benzo(a)pyrene	ug/L	50	50.5	101	25-116	
Benzo(b)fluoranthene	ug/L	50	50.8	102	23-117	
Benzo(g,h,i)perylene	ug/L	50	50.5	101	17-128	
Benzo(k)fluoranthene	ug/L	50	45.1	90	25-127	
Benzoic Acid	ug/L	250	75.4	30	10-110	
Benzyl alcohol	ug/L	100	68.3	68	10-101	
bis(2-Chloroethoxy)methane	ug/L	50	38.1	76	19-107	
bis(2-Chloroethyl) ether	ug/L	50	40.4	81	10-108	
bis(2-Chloroisopropyl) ether	ug/L	50	45.0	90	10-108	
bis(2-Ethylhexyl)phthalate	ug/L	50	47.7	95	16-123	
Butylbenzylphthalate	ug/L	50	45.2	90	20-118	
Chrysene	ug/L	50	47.1	94	24-125	
Di-n-butylphthalate	ug/L	50	42.9	86	23-115	
Di-n-octylphthalate	ug/L	50	50.1	100	20-115	
Dibenz(a,h)anthracene	ug/L	50	51.2	102	18-131	
Dibenzofuran	ug/L	50	40.9	82	23-106	
Diethylphthalate	ug/L	50	40.9	82	24-115	
Dimethylphthalate	ug/L	50	39.6	79	22-113	
Fluoranthene	ug/L	50	49.6	99	24-125	
Fluorene	ug/L	50	41.5	83	24-114	
Hexachloro-1,3-butadiene	ug/L	50	26.4	53	10-110	
Hexachlorobenzene	ug/L	50	42.5	85	22-127	
Hexachlorocyclopentadiene	ug/L	50	34.5	69	10-110	
Hexachloroethane	ug/L	50	25.6	51	10-110	
Indeno(1,2,3-cd)pyrene	ug/L	50	52.0	104	18-130	

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138703

LABORATORY CONTROL SAMPLE: 873537

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isophorone	ug/L	50	32.0	64	23-114	
N-Nitroso-di-n-propylamine	ug/L	50	45.4	91	21-114	
N-Nitrosodimethylamine	ug/L	50	23.7	47	10-110	
N-Nitrosodiphenylamine	ug/L	50	38.9	78	24-123	
Naphthalene	ug/L	50	33.4	67	14-110	
Nitrobenzene	ug/L	50	30.7	61	16-106	
Pentachlorophenol	ug/L	100	79.7	80	10-123	
Phenanthrene	ug/L	50	42.7	85	25-119	
Phenol	ug/L	50	17.0	34	10-110	
Pyrene	ug/L	50	43.8	88	22-127	
2,4,6-Tribromophenol (S)	%			92	27-110	
2-Fluorobiphenyl (S)	%			81	27-110	
2-Fluorophenol (S)	%			40	12-110	
Nitrobenzene-d5 (S)	%			76	21-110	
Phenol-d6 (S)	%			28	10-110	
Terphenyl-d14 (S)	%			101	31-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 873538 873539

Parameter	Units	92138553004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trichlorobenzene	ug/L	ND	100	100	66.2	41.8	66	42	10-110	45	30	
1,2-Dichlorobenzene	ug/L	ND	100	100	63.1	39.2	63	39	10-110	47	30	
1,3-Dichlorobenzene	ug/L	ND	100	100	58.5	35.3	58	35	10-110	49	30	
1,4-Dichlorobenzene	ug/L	ND	100	100	60.1	37.0	60	37	10-110	48	30	
1-Methylnaphthalene	ug/L	ND	100	100	82.4	51.3	82	51	14-110	47	30	
2,4,5-Trichlorophenol	ug/L	ND	100	100	85.3	53.0	85	53	19-105	47	30	
2,4,6-Trichlorophenol	ug/L	ND	100	100	82.2	49.5	82	49	13-108	50	30	
2,4-Dichlorophenol	ug/L	ND	100	100	80.5	48.5	80	49	29-111	50	30	
2,4-Dimethylphenol	ug/L	ND	100	100	74.5	47.1	75	47	21-103	45	30	
2,4-Dinitrophenol	ug/L	ND	500	500	396	250	79	50	10-109	45	30	
2,4-Dinitrotoluene	ug/L	ND	100	100	80.7	73.7	81	74	27-104	9	30	
2,6-Dinitrotoluene	ug/L	ND	100	100	75.7	60.2	76	60	28-101	23	30	
2-Chloronaphthalene	ug/L	ND	100	100	76.5	48.2	77	48	14-102	45	30	
2-Chlorophenol	ug/L	ND	100	100	76.6	49.2	77	49	16-110	44	30	
2-Methylnaphthalene	ug/L	ND	100	100	81.2	50.9	81	51	13-110	46	30	
2-Methylphenol(o-Cresol)	ug/L	ND	100	100	74.5	47.4	75	47	19-110	45	30	
2-Nitroaniline	ug/L	ND	200	200	181	133	90	67	26-103	30	30	
2-Nitrophenol	ug/L	ND	100	100	81.2	51.2	81	51	20-110	45	30	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	100	100	70.8	43.8	71	44	20-110	47	30	
3,3'-Dichlorobenzidine	ug/L	ND	200	200	212	221	106	111	25-112	4	30	
3-Nitroaniline	ug/L	ND	200	200	172	160	86	80	29-110	7	30	
4,6-Dinitro-2-methylphenol	ug/L	ND	200	200	178	169	89	85	10-117	5	30	
4-Bromophenylphenyl ether	ug/L	ND	100	100	93.3	75.3	93	75	20-105	21	30	
4-Chloro-3-methylphenol	ug/L	ND	200	200	171	101	85	50	22-110	52	30	
4-Chloroaniline	ug/L	ND	200	200	155	101	78	50	20-100	43	30	

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138703

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 873538 873539

Parameter	Units	92138553004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4-Chlorophenylphenyl ether	ug/L	ND	100	100	88.7	60.0	89	60	19-102	39	30	
4-Nitroaniline	ug/L	ND	200	200	199	196	99	98	29-110	2	30	
4-Nitrophenol	ug/L	ND	500	500	287	285	57	57	10-110	1	30	
Acenaphthene	ug/L	ND	100	100	87.4	55.3	87	55	17-100	45	30	
Acenaphthylene	ug/L	ND	100	100	84.4	53.9	84	54	21-100	44	30	
Aniline	ug/L	ND	100	100	66.1	45.7	66	46	10-110	36	30	
Anthracene	ug/L	ND	100	100	94.0	86.3	94	86	24-109	9	30	
Benzo(a)anthracene	ug/L	ND	100	100	102	101	102	101	22-117	2	30	
Benzo(a)pyrene	ug/L	ND	100	100	107	105	107	105	23-104	2	30	M0,M1
Benzo(b)fluoranthene	ug/L	ND	100	100	105	103	105	103	23-103	2	30	M0,M1
Benzo(g,h,i)perylene	ug/L	ND	100	100	105	103	105	103	18-111	2	30	
Benzo(k)fluoranthene	ug/L	ND	100	100	98.5	93.8	99	94	22-113	5	30	
Benzoic Acid	ug/L	ND	500	500	219	ND	44	2	10-110		30	
Benzyl alcohol	ug/L	ND	200	200	161	103	81	51	19-101	44	30	
bis(2-Chloroethoxy)methane	ug/L	ND	100	100	77.5	46.8	78	47	22-110	49	30	
bis(2-Chloroethyl) ether	ug/L	ND	100	100	83.8	51.6	84	52	16-110	48	30	
bis(2-Chloroisopropyl) ether	ug/L	ND	100	100	88.9	55.5	89	56	14-110	46	30	
bis(2-Ethylhexyl)phthalate	ug/L	11.3	100	100	115	120	103	109	23-102	5	30	M0,M1
Butylbenzylphthalate	ug/L	ND	100	100	93.2	88.8	93	89	25-110	5	30	
Chrysene	ug/L	ND	100	100	97.5	93.7	97	94	23-115	4	30	
Di-n-butylphthalate	ug/L	ND	100	100	90.4	87.1	90	87	26-110	4	30	
Di-n-octylphthalate	ug/L	ND	100	100	99.9	96.3	100	96	22-110	4	30	
Dibenz(a,h)anthracene	ug/L	ND	100	100	107	103	107	103	21-112	4	30	
Dibenzofuran	ug/L	ND	100	100	88.2	58.0	88	58	19-102	41	30	
Diethylphthalate	ug/L	ND	100	100	89.6	81.1	90	81	29-110	10	30	
Dimethylphthalate	ug/L	ND	100	100	85.4	71.3	85	71	27-110	18	30	
Fluoranthene	ug/L	ND	100	100	102	101	102	101	23-112	1	30	
Fluorene	ug/L	ND	100	100	90.1	64.1	90	64	22-104	34	30	
Hexachloro-1,3-butadiene	ug/L	ND	100	100	62.1	37.1	62	37	10-110	50	30	
Hexachlorobenzene	ug/L	ND	100	100	94.1	82.2	94	82	21-116	14	30	
Hexachlorocyclopentadiene	ug/L	ND	100	100	80.5	49.6	81	50	10-110	48	30	
Hexachloroethane	ug/L	ND	100	100	57.0	32.6	57	33	10-110	54	30	
Indeno(1,2,3-cd)pyrene	ug/L	ND	100	100	109	105	109	105	20-113	4	30	
Isophorone	ug/L	ND	100	100	66.6	38.8	67	39	50-150	53	30	M0,M1
N-Nitroso-di-n-propylamine	ug/L	ND	100	100	90.7	56.6	91	57	21-105	46	30	
N-Nitrosodimethylamine	ug/L	ND	100	100	60.4	42.4	60	42	10-110	35	30	
N-Nitrosodiphenylamine	ug/L	ND	100	100	89.5	77.7	90	78	23-107	14	30	
Naphthalene	ug/L	ND	100	100	73.7	47.5	74	47	10-110	43	30	
Nitrobenzene	ug/L	ND	100	100	60.7	39.8	61	40	20-110	41	30	
Pentachlorophenol	ug/L	ND	200	200	131	126	65	63	10-118	4	30	
Phenanthrene	ug/L	ND	100	100	90.5	82.2	91	82	24-106	10	30	
Phenol	ug/L	ND	100	100	48.9	33.5	49	34	12-110	37	30	1g,R1
Pyrene	ug/L	ND	100	100	94.4	90.7	94	91	24-114	4	30	
2,4,6-Tribromophenol (S)	%						98	87	27-110			
2-Fluorobiphenyl (S)	%						80	49	27-110			
2-Fluorophenol (S)	%						49	33	12-110			
Nitrobenzene-d5 (S)	%						76	49	21-110			

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QUALITY CONTROL DATA

Project: ECI Elon Facility
Pace Project No.: 92138703

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 873538 873539

Parameter	Units	92138553004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phenol-d6 (S)	%						41	28	10-110			
Terphenyl-d14 (S)	%						101	100	31-107			

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QUALIFIERS

Project: ECI Elon Facility
Pace Project No.: 92138703

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

1g	This comment applies to all compounds with an RPD >30%.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ECI Elon Facility
Pace Project No.: 92138703

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92138703001	**ECIE-1112-MW-11**	EPA 3010	MPRP/11983	EPA 6010	ICP/10962
92138703002	**ECIE-1112-MW-12**	EPA 3010	MPRP/11983	EPA 6010	ICP/10962
92138703003	**ECIE-1112-MW-13**	EPA 3010	MPRP/11983	EPA 6010	ICP/10962
92138703004	**ECIE-1112-MW-10**	EPA 3010	MPRP/11983	EPA 6010	ICP/10962
92138703005	**ECIE-1112-DW-1**	EPA 3010	MPRP/11983	EPA 6010	ICP/10962
92138703006	**ECIE-1112-DW-1 (DUP)**	EPA 3010	MPRP/11983	EPA 6010	ICP/10962
92138703001	**ECIE-1112-MW-11**	EPA 7470	MERP/4692	EPA 7470	MERC/4590
92138703002	**ECIE-1112-MW-12**	EPA 7470	MERP/4692	EPA 7470	MERC/4590
92138703003	**ECIE-1112-MW-13**	EPA 7470	MERP/4692	EPA 7470	MERC/4590
92138703004	**ECIE-1112-MW-10**	EPA 7470	MERP/4692	EPA 7470	MERC/4590
92138703005	**ECIE-1112-DW-1**	EPA 7470	MERP/4692	EPA 7470	MERC/4590
92138703006	**ECIE-1112-DW-1 (DUP)**	EPA 7470	MERP/4692	EPA 7470	MERC/4590
92138703004	**ECIE-1112-MW-10**	EPA 3510	OEXT/19741	EPA 8270	MSSV/7008
92138703005	**ECIE-1112-DW-1**	EPA 3510	OEXT/19741	EPA 8270	MSSV/7008
92138703006	**ECIE-1112-DW-1 (DUP)**	EPA 3510	OEXT/19741	EPA 8270	MSSV/7008
92138703004	**ECIE-1112-MW-10**	EPA 8260	MSV/21129		
92138703005	**ECIE-1112-DW-1**	EPA 8260	MSV/21129		
92138703006	**ECIE-1112-DW-1 (DUP)**	EPA 8260	MSV/21129		
92138703007	**TRIP BLANK**	EPA 8260	MSV/21129		

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Data File: \\Wt\chem\92mss3.i\111912.b\11191206.D
Report Date: 26-Nov-2012 09:26

KH

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TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92138703004
Operator : PPM
Sample Location:
Sample Matrix: WATER
Analysis Type: SV
Inj Date: 19-NOV-2012 13:41

Client SDG: 92138703
Client Smp ID: ECIE-1112-MW-10
Sample Date: 13-NOV-2012
Sample Point:
Date Received:14-NOV-2012 00:00
Level: LOW

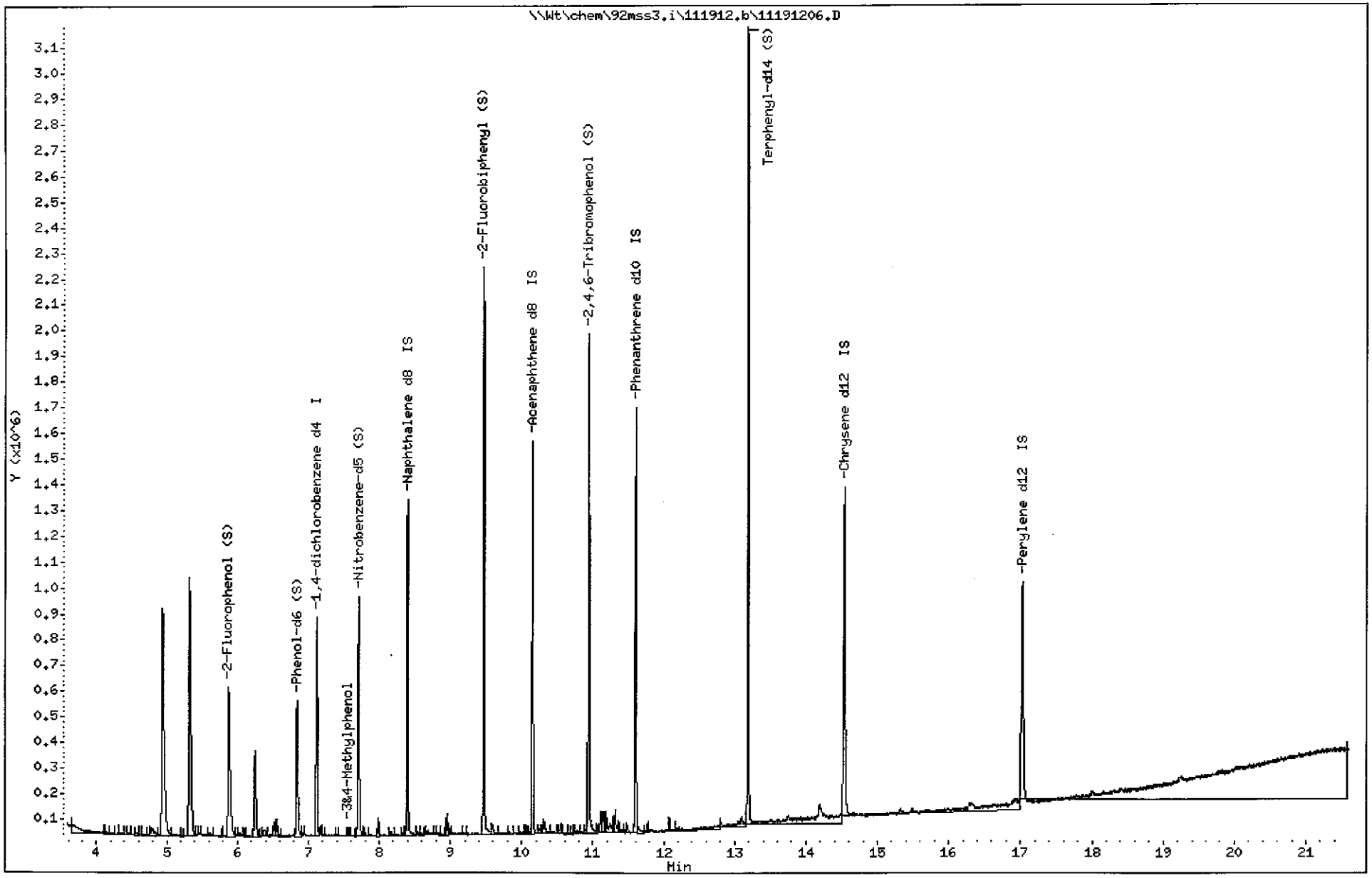
Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	3.649	6.28	J
2.	Unknown	4.939	38.4	J
3.	Unknown	5.324	35.7	J
4. 79-34-5	Ethane, 1,1,2,2-tetrachloro	6.247	11.7	NJ

Data File: \\Wt\chem\92mss3.i\111912.b\11191206.D
Date : 19-NOV-2012 13:41
Client ID: ECIE-1112-MW-10
Sample Info: 111912,8270REGA,PPM,1,,,
Volume Injected (uL): 1.0
Column phase: RXi-5Sil MS

Instrument: 92mss3.i
Operator: PPM
Column diameter: 0.18



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TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92138703005
Operator : PPM
Sample Location:
Sample Matrix: WATER
Analysis Type: SV
Inj Date: 19-NOV-2012 14:08

Client SDG: 92138703
Client Smp ID: ECIE-1112-DW-1
Sample Date: 13-NOV-2012
Sample Point:
Date Received:14-NOV-2012 00:00
Level: LOW

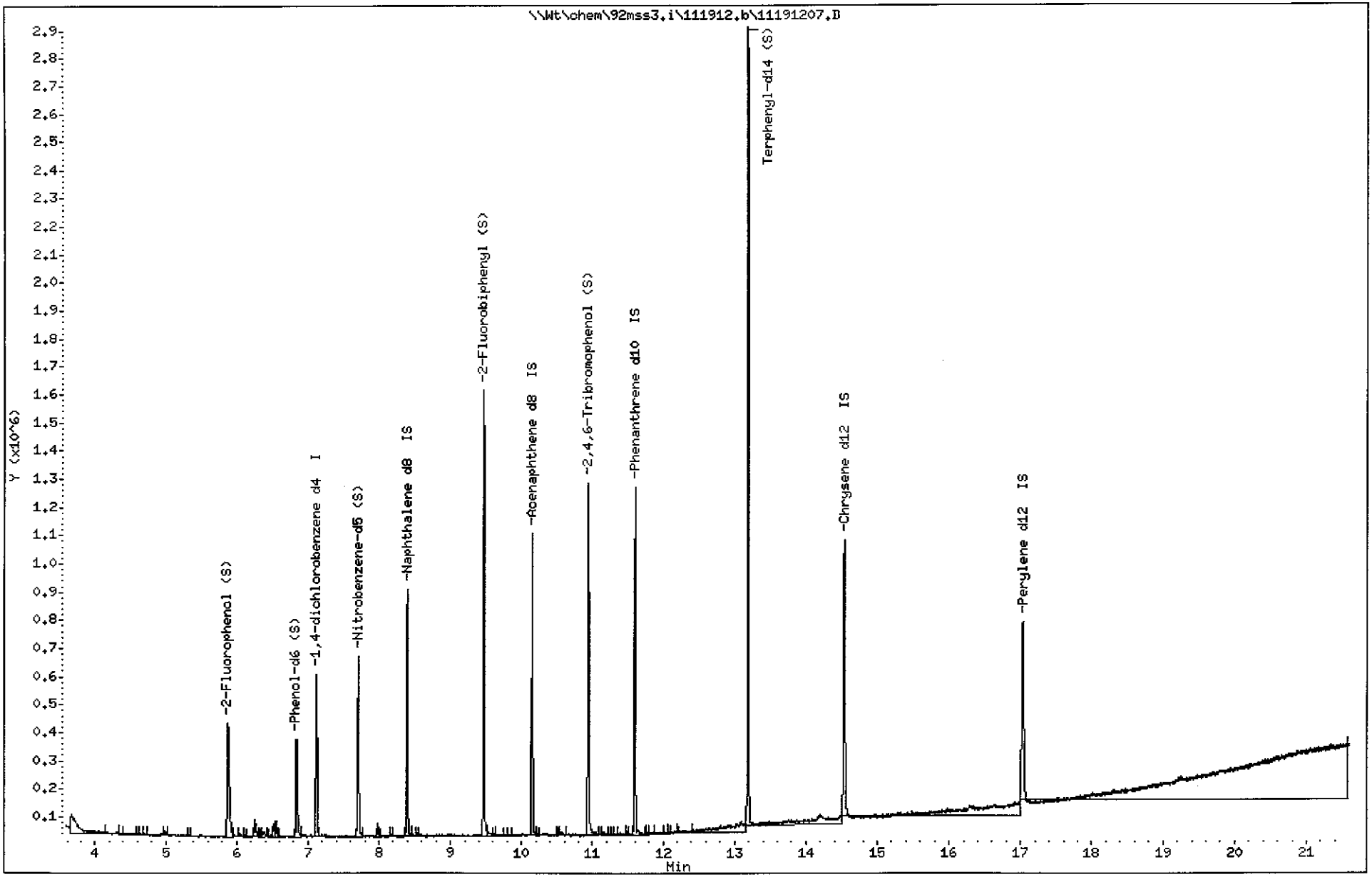
Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 79-01-6	Trichloroethylene	3.665	14.1	NJ__

Data File: \\Wt\chem\92mss3.i\111912.b\11191207.D
Date : 19-NOV-2012 14:08
Client ID: ECIE-1112-DW-1
Sample Info: 111912,8270REGA,PPM,1,,,
Volume Injected (uL): 1.0
Column phase: RXi-5Sil MS

Instrument: 92mss3.i
Operator: PPM
Column diameter: 0.18



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TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92138703006
Operator : PPM
Sample Location:
Sample Matrix: WATER
Analysis Type: SV
Inj Date: 19-NOV-2012 22:47

Client SDG: 92138703
Client Smp ID: ECIE-1112-DW-1 (DU
Sample Date: 13-NOV-2012
Sample Point:
Date Received:14-NOV-2012 00:00
Level: LOW

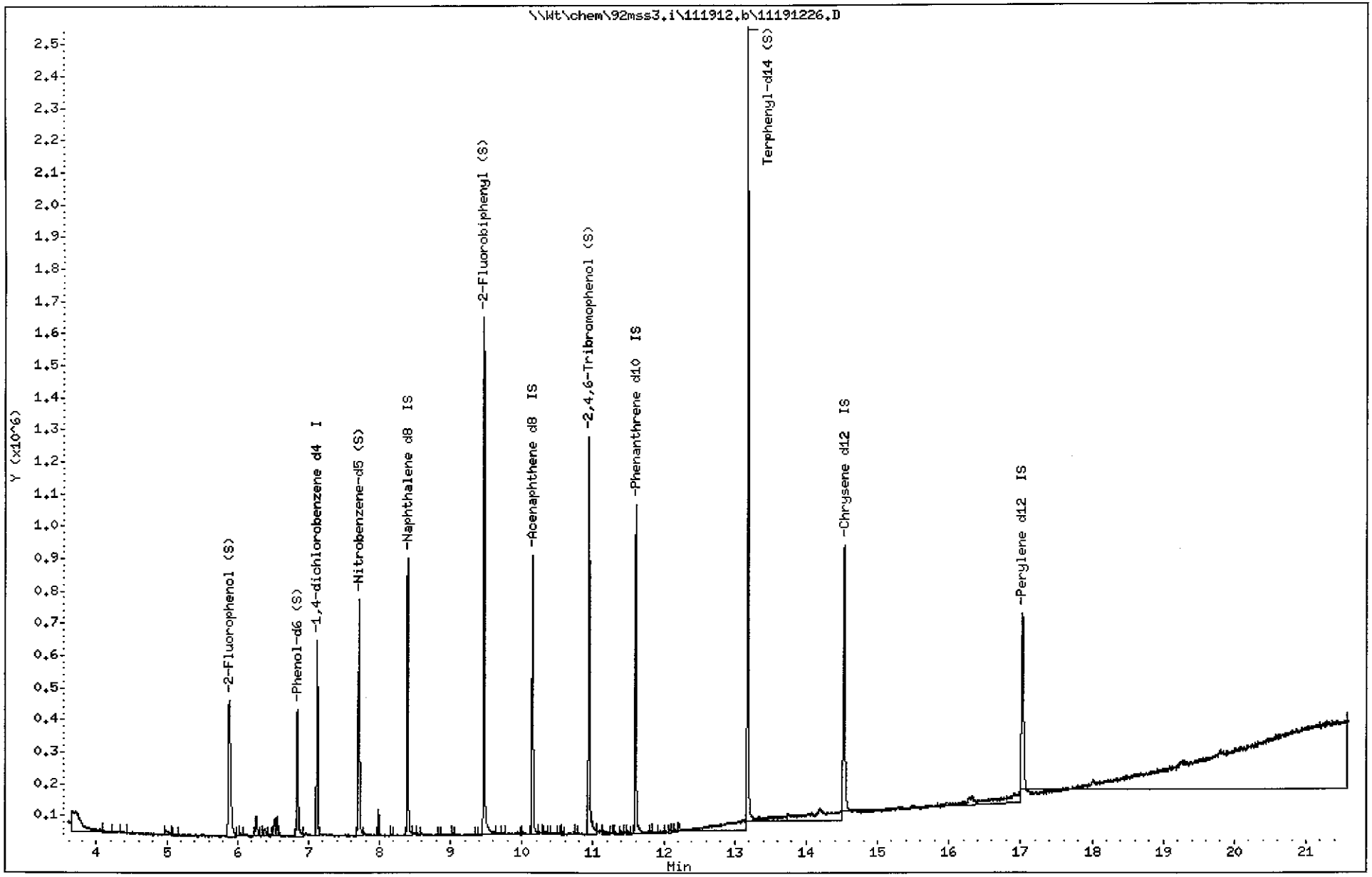
Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 79-01-6	Trichloroethylene	3.665	15.7	NJ
2.	Unknown	13.126	8.42	J

Data File: \\Wt\chem\92mss3.i\111912.b\11191226.D
Date : 19-NOV-2012 22:47
Client ID: ECIE-1112-DW-1 (DU
Sample Info: 111912,8270REGA,PPM,1,,,
Volume Injected (uL): 1.0
Column phase: RXi-5Sil MS

Instrument: 92mss3.i
Operator: PPM
Column diameter: 0.18



Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92138703004
Operator : MCK
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 17-NOV-2012 11:14

Client SDG: 92138703
Client Smp ID: ECIE-1112-MW-10
Sample Date: 13-NOV-2012
Sample Point:
Date Received:14-NOV-2012 00:00
Level: LOW

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-19-6	Nonanal	9.148	8.62	NJ

Pace Analytical Services, Inc.

Data file : \\Wt\chem\92msv6.i\111612P.b\11161287.D
Lab Smp Id: 92138703004 Client Smp ID: ECIE-1112-MW-10
Inj Date : 17-NOV-2012 11:14
Operator : MCK Inst ID: 92msv6.i
Smp Info : 111612P,8260WLL,MCK,1
Misc Info : 21129,92138703004
Comment :
Method : \\Wt\chem\92msv6.i\111612P.b\8260WLL.m
Meth Date : 27-Nov-2012 16:12 ahilling Quant Type: ISTD
Cal Date : 12-NOV-2012 11:10 Cal File: 11121211.D
Als bottle: 77
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 4 1,4-Dichlorobenzene-d4	8.570	1818460	50.000

		CONCENTRATIONS			QUANT			
RT	AREA	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #	REVIEW CODE
Nonanal					CAS #: 124-19-6			
9.148	313473	8.61919243	8.62	91	NIST02.1	19125	4	

Pace Analytical Services, Inc.

Data file : \\Wt\chem\92msv6.i\111612P.b\11161288.D
Lab Smp Id: 92138703005 Client Smp ID: ECIE-1112-DW-1
Inj Date : 17-NOV-2012 11:30
Operator : MCK Inst ID: 92msv6.i
Smp Info : 111612P,8260WLL,MCK,1
Misc Info : 21129,92138703005
Comment :
Method : \\Wt\chem\92msv6.i\111612P.b\8260WLL.m
Meth Date : 27-Nov-2012 16:12 ahilling Quant Type: ISTD
Cal Date : 12-NOV-2012 11:10 Cal File: 11121211.D
Als bottle: 78
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92138703005
Operator : MCK
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 17-NOV-2012 11:30

Client SDG: 92138703
Client Smp ID: ECIE-1112-DW-1
Sample Date: 13-NOV-2012
Sample Point:
Date Received:14-NOV-2012 00:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92138703006
Operator : MCK
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 17-NOV-2012 11:46

Client SDG: 92138703
Client Smp ID: ECIE-1112-DW-1 (DU
Sample Date: 13-NOV-2012
Sample Point:
Date Received:14-NOV-2012 00:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

Data file : \\Wt\chem\92msv6.i\111612P.b\11161289.D
Lab Smp Id: 92138703006 Client Smp ID: ECIE-1112-DW-1 (DU
Inj Date : 17-NOV-2012 11:46
Operator : MCK Inst ID: 92msv6.i
Smp Info : 111612P,8260WLL,MCK,1
Misc Info : 21129,92138703006
Comment :
Method : \\Wt\chem\92msv6.i\111612P.b\8260WLL.m
Meth Date : 27-Nov-2012 16:12 ahilling Quant Type: ISTD
Cal Date : 12-NOV-2012 11:10 Cal File: 11121211.D
Als bottle: 79
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92138703007
Operator : MCK
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 17-NOV-2012 10:58

Client SDG: 92138703
Client Smp ID: TRIP BLANK
Sample Date: 13-NOV-2012
Sample Point:
Date Received:14-NOV-2012 00:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1655504

Section A Required Client Information:

Company: GAIATECH
Address: 3525 PIEDMONT RD NE BUILDING 6, SUITE 520
Email To: MIKE WILSON + WILL LUCAS
Phone: (404) 812-0001 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: MIKE WILSON MWILSON@GAIATECH.COM
Copy To: WILL LUCAS WLUCAS@GAIATECH.COM
Purchase Order No.: B1116-421-1
Project Name: ECI ELON FACILITY
Project Number: B1116-421-1

Section C Invoice Information:

Attention: MIKE WILSON
Company Name: GAIATECH
Address: SAME AS REPORT ADDRESS
Pace Quote Reference:
Pace Project Manager: ALLISON CONTRELL
Pace Profile #: 5513-2

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOCs+TICs	SVOCs+TICs	HSL MGINS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	ECIE-1112-MW11	WT	G	11/9/12	1130						1			1									X		001
2	ECIE-1112-MW12	WT	G	11/9/12	1400						1			1									X		002
3	ECIE-1112-MW13	WT	G	11/9/12	1630						1			1									X		003
4																									
5	ECIE-1112-MW10	WT	G	11/13/12	1415						6	2		1	3						X	X	X		004
6																									
7	ECIE-1112-DW1	WT	G	11/13/12	1730						6	2		1	3						X	X	X		005
8	ECIE-1112-DW1(DUP)	WT	G	11/13/12	1735						6	2		1	3						X	X	X		006
9																									
10	TRIP BLANK	WT		NA	NA						2	1			1						X				007
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	GAIATECH	11/14/12	1315	PACE	11/14/12	1315				
	PACE	11/14/12	1750	PACE	11/14/12	1730	21	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: October 31, 2012 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.08**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Tiaa Project # 92138703

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden ☐ Raleigh

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1101 T1102 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor **T1101**: No Correction **T1102**: No Correction

Corrected Cooler Temp.: 2.1 C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: 11/14

Temp should be above freezing to 6°C

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix:_____				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		Initial when completed
Samples checked for dechlorination:	☑Yes	☐No	☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	15.
Trip Blank Present:	☑Yes	☐No	☐N/A	16.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased):_____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [signature] **Date:** 11/14/12 **SRF Review:** [signature] **Date:** 11/15/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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November 19, 2012

Michael Wilson
Gaia Tech
3525 Piedmont Rd NE
Bldg 6, Suite 520
Atlanta, GA 30326

RE: Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Dear Michael Wilson:
Enclosed are the analytical results for sample(s) received by the laboratory on November 09, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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(704)875-9092

SAMPLE SUMMARY

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92138123001	**ECIE-1112-MW7**	Water	11/08/12 12:00	11/09/12 13:40
92138123002	**ECIE-1112-MW8**	Water	11/08/12 15:00	11/09/12 13:40
92138123003	**ECIE-1112-MW9**	Water	11/08/12 18:00	11/09/12 13:40
92138123004	**ECIE-1112-ERB**	Water	11/08/12 18:30	11/09/12 13:40
92138123005	**Trip Blank**	Water	11/08/12 00:00	11/09/12 13:40

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SAMPLE ANALYTE COUNT

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92138123001	**ECIE-1112-MW7**	EPA 5030/8015 Mod.	RGF	2	PASI-C
		EPA 8270	PPM	74	PASI-C
		EPA 8260	KJM	64	PASI-C
92138123002	**ECIE-1112-MW8**	EPA 8270	PPM	74	PASI-C
		EPA 8260	KJM	64	PASI-C
92138123003	**ECIE-1112-MW9**	EPA 8270	PPM	74	PASI-C
		EPA 8260	KJM	64	PASI-C
92138123004	**ECIE-1112-ERB**	EPA 6010	JMW	13	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8270	PPM	74	PASI-C
		EPA 8260	KJM	64	PASI-C
92138123005	**Trip Blank**	EPA 8260	KJM	64	PASI-C

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HITS ONLY

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92138123001	**ECIE-1112-MW7**					
EPA 5030/8015 Mod.	Gasoline Range Organics	1.2	mg/L	0.080	11/14/12 05:50	
EPA 8260	Chloroform	3.6	ug/L	1.0	11/13/12 04:36	
EPA 8260	cis-1,2-Dichloroethene	60.5	ug/L	1.0	11/13/12 04:36	
EPA 8260	Tetrachloroethene	92.9	ug/L	1.0	11/13/12 04:36	
EPA 8260	Trichloroethene	2350	ug/L	25.0	11/14/12 02:00	
EPA 8260	Xylene (Total)	2.3	ug/L	2.0	11/13/12 04:36	
92138123002	**ECIE-1112-MW8**					
EPA 8260	Toluene	1.5	ug/L	1.0	11/13/12 04:51	
EPA 8260	Trichloroethene	154	ug/L	1.0	11/13/12 04:51	
92138123003	**ECIE-1112-MW9**					
EPA 8260	Chloroform	1.4	ug/L	1.0	11/13/12 05:07	
EPA 8260	cis-1,2-Dichloroethene	16.0	ug/L	1.0	11/13/12 05:07	
EPA 8260	Tetrachloroethene	36.0	ug/L	1.0	11/13/12 05:07	
EPA 8260	Trichloroethene	1560	ug/L	20.0	11/14/12 02:16	
EPA 8260	Xylene (Total)	2.5	ug/L	2.0	11/13/12 05:07	

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PROJECT NARRATIVE

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Method: **EPA 5030/8015 Mod.**
Description: Gasoline Range Organics
Client: Gaia Tech
Date: November 19, 2012

General Information:
1 sample was analyzed for EPA 5030/8015 Mod.. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Gaia Tech
Date: November 19, 2012

General Information:
1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Method: **EPA 7470**
Description: 7470 Mercury
Client: Gaia Tech
Date: November 19, 2012

General Information:
1 sample was analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: Gaia Tech
Date: November 19, 2012

General Information:
4 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/19686

S0: Surrogate recovery outside laboratory control limits.

- ECIE-1112-MW9 (Lab ID: 92138123003)
  - Terphenyl-d14 (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/19686

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92138031001

R1: RPD value was outside control limits.

- MSD (Lab ID: 870734)
  - Benzoic Acid
  - Hexachlorocyclopentadiene

Additional Comments:

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PROJECT NARRATIVE

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: Gaia Tech
Date: November 19, 2012

General Information:
5 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Sample: ECIE-1112-MW7 **Lab ID: 92138123001** Collected: 11/08/12 12:00 Received: 11/09/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030/8015 Mod.								
Gasoline Range Organics	**1.2**	mg/L	0.080	0.014	1		11/14/12 05:50	8006-61-9	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-145		1		11/14/12 05:50	460-00-4	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	10.0	0.25	1	11/12/12 16:00	11/13/12 21:13	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 21:13	208-96-8	
Aniline	ND	ug/L	10.0	2.0	1	11/12/12 16:00	11/13/12 21:13	62-53-3	
Anthracene	ND	ug/L	10.0	0.14	1	11/12/12 16:00	11/13/12 21:13	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	11/12/12 16:00	11/13/12 21:13	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	11/12/12 16:00	11/13/12 21:13	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	11/12/12 16:00	11/13/12 21:13	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	11/12/12 16:00	11/13/12 21:13	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	11/12/12 16:00	11/13/12 21:13	207-08-9	
Benzoic Acid	ND	ug/L	50.0	11.5	1	11/12/12 16:00	11/13/12 21:13	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	11/12/12 16:00	11/13/12 21:13	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	11/12/12 16:00	11/13/12 21:13	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	11/12/12 16:00	11/13/12 21:13	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	11/12/12 16:00	11/13/12 21:13	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	11/12/12 16:00	11/13/12 21:13	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	11/12/12 16:00	11/13/12 21:13	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	11/12/12 16:00	11/13/12 21:13	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	11/12/12 16:00	11/13/12 21:13	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 21:13	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	11/12/12 16:00	11/13/12 21:13	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	11/12/12 16:00	11/13/12 21:13	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 21:13	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	11/12/12 16:00	11/13/12 21:13	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.89	1	11/12/12 16:00	11/13/12 21:13	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.88	1	11/12/12 16:00	11/13/12 21:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.81	1	11/12/12 16:00	11/13/12 21:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.95	1	11/12/12 16:00	11/13/12 21:13	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	11/12/12 16:00	11/13/12 21:13	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	11/12/12 16:00	11/13/12 21:13	120-83-2	
Diethylphthalate	ND	ug/L	10.0	0.58	1	11/12/12 16:00	11/13/12 21:13	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	11/12/12 16:00	11/13/12 21:13	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	11/12/12 16:00	11/13/12 21:13	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	11/12/12 16:00	11/13/12 21:13	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.6	1	11/12/12 16:00	11/13/12 21:13	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	11/12/12 16:00	11/13/12 21:13	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	11/12/12 16:00	11/13/12 21:13	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 21:13	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	11/12/12 16:00	11/13/12 21:13	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.79	1	11/12/12 16:00	11/13/12 21:13	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 21:13	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 21:13	86-73-7	

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ANALYTICAL RESULTS

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Sample: ECIE-1112-MW7 **Lab ID: 92138123001** Collected: 11/08/12 12:00 Received: 11/09/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	11/12/12 16:00	11/13/12 21:13	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	11/12/12 16:00	11/13/12 21:13	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	11/12/12 16:00	11/13/12 21:13	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	11/12/12 16:00	11/13/12 21:13	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	11/12/12 16:00	11/13/12 21:13	193-39-5	
Isophorone	ND	ug/L	10.0	0.89	1	11/12/12 16:00	11/13/12 21:13	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	0.32	1	11/12/12 16:00	11/13/12 21:13	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	11/12/12 16:00	11/13/12 21:13	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	11/12/12 16:00	11/13/12 21:13	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	11/12/12 16:00	11/13/12 21:13		
Naphthalene	ND	ug/L	10.0	0.34	1	11/12/12 16:00	11/13/12 21:13	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	11/12/12 16:00	11/13/12 21:13	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	11/12/12 16:00	11/13/12 21:13	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	11/12/12 16:00	11/13/12 21:13	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	11/12/12 16:00	11/13/12 21:13	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	11/12/12 16:00	11/13/12 21:13	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	11/12/12 16:00	11/13/12 21:13	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	11/12/12 16:00	11/13/12 21:13	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	11/12/12 16:00	11/13/12 21:13	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	11/12/12 16:00	11/13/12 21:13	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	11/12/12 16:00	11/13/12 21:13	87-86-5	
Phenanthrene	ND	ug/L	10.0	0.22	1	11/12/12 16:00	11/13/12 21:13	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	11/12/12 16:00	11/13/12 21:13	108-95-2	
Pyrene	ND	ug/L	10.0	0.19	1	11/12/12 16:00	11/13/12 21:13	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 21:13	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	11/12/12 16:00	11/13/12 21:13	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	11/12/12 16:00	11/13/12 21:13	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	45	%	21-110		1	11/12/12 16:00	11/13/12 21:13	4165-60-0	
2-Fluorobiphenyl (S)	52	%	27-110		1	11/12/12 16:00	11/13/12 21:13	321-60-8	
Terphenyl-d14 (S)	90	%	31-107		1	11/12/12 16:00	11/13/12 21:13	1718-51-0	
Phenol-d6 (S)	14	%	10-110		1	11/12/12 16:00	11/13/12 21:13	13127-88-3	
2-Fluorophenol (S)	24	%	12-110		1	11/12/12 16:00	11/13/12 21:13	367-12-4	
2,4,6-Tribromophenol (S)	72	%	27-110		1	11/12/12 16:00	11/13/12 21:13	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		11/13/12 04:36	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		11/13/12 04:36	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		11/13/12 04:36	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/13/12 04:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/13/12 04:36	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/13/12 04:36	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/13/12 04:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/13/12 04:36	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/13/12 04:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		11/13/12 04:36	108-90-7	

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ANALYTICAL RESULTS

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Sample: ECIE-1112-MW7 **Lab ID: 92138123001** Collected: 11/08/12 12:00 Received: 11/09/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Chloroethane	ND	ug/L	1.0	0.54	1		11/13/12 04:36	75-00-3	
Chloroform	**3.6**	ug/L	1.0	0.14	1		11/13/12 04:36	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/13/12 04:36	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		11/13/12 04:36	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		11/13/12 04:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/13/12 04:36	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/13/12 04:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/13/12 04:36	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/13/12 04:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		11/13/12 04:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/13/12 04:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		11/13/12 04:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		11/13/12 04:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		11/13/12 04:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/13/12 04:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/13/12 04:36	75-35-4	
cis-1,2-Dichloroethene	**60.5**	ug/L	1.0	0.19	1		11/13/12 04:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/13/12 04:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/13/12 04:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/13/12 04:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/13/12 04:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/13/12 04:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/13/12 04:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/13/12 04:36	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		11/13/12 04:36	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/13/12 04:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		11/13/12 04:36	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/13/12 04:36	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		11/13/12 04:36	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		11/13/12 04:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/13/12 04:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		11/13/12 04:36	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		11/13/12 04:36	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		11/13/12 04:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/13/12 04:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/13/12 04:36	79-34-5	
Tetrachloroethene	**92.9**	ug/L	1.0	0.46	1		11/13/12 04:36	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		11/13/12 04:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		11/13/12 04:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/13/12 04:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/13/12 04:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/13/12 04:36	79-00-5	
Trichloroethene	**2350**	ug/L	25.0	11.8	25		11/14/12 02:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/13/12 04:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/13/12 04:36	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/13/12 04:36	108-05-4	

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ANALYTICAL RESULTS

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Sample: ECIE-1112-MW7 **Lab ID: 92138123001** Collected: 11/08/12 12:00 Received: 11/09/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		11/13/12 04:36	75-01-4	
Xylene (Total)	**2.3**	ug/L	2.0	0.66	1		11/13/12 04:36	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/13/12 04:36	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/13/12 04:36	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/13/12 04:36	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		11/13/12 04:36	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		11/13/12 04:36	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/13/12 04:36	2037-26-5	

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ANALYTICAL RESULTS

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Sample: ECIE-1112-MW8 **Lab ID: 92138123002** Collected: 11/08/12 15:00 Received: 11/09/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	10.0	0.25	1	11/12/12 16:00	11/13/12 21:45	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 21:45	208-96-8	
Aniline	ND	ug/L	10.0	2.0	1	11/12/12 16:00	11/13/12 21:45	62-53-3	
Anthracene	ND	ug/L	10.0	0.14	1	11/12/12 16:00	11/13/12 21:45	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	11/12/12 16:00	11/13/12 21:45	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	11/12/12 16:00	11/13/12 21:45	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	11/12/12 16:00	11/13/12 21:45	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	11/12/12 16:00	11/13/12 21:45	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	11/12/12 16:00	11/13/12 21:45	207-08-9	
Benzoic Acid	ND	ug/L	50.0	11.5	1	11/12/12 16:00	11/13/12 21:45	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	11/12/12 16:00	11/13/12 21:45	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	11/12/12 16:00	11/13/12 21:45	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	11/12/12 16:00	11/13/12 21:45	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	11/12/12 16:00	11/13/12 21:45	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	11/12/12 16:00	11/13/12 21:45	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	11/12/12 16:00	11/13/12 21:45	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	11/12/12 16:00	11/13/12 21:45	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	11/12/12 16:00	11/13/12 21:45	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 21:45	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	11/12/12 16:00	11/13/12 21:45	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	11/12/12 16:00	11/13/12 21:45	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 21:45	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	11/12/12 16:00	11/13/12 21:45	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.89	1	11/12/12 16:00	11/13/12 21:45	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.88	1	11/12/12 16:00	11/13/12 21:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.81	1	11/12/12 16:00	11/13/12 21:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.95	1	11/12/12 16:00	11/13/12 21:45	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	11/12/12 16:00	11/13/12 21:45	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	11/12/12 16:00	11/13/12 21:45	120-83-2	
Diethylphthalate	ND	ug/L	10.0	0.58	1	11/12/12 16:00	11/13/12 21:45	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	11/12/12 16:00	11/13/12 21:45	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	11/12/12 16:00	11/13/12 21:45	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	11/12/12 16:00	11/13/12 21:45	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.6	1	11/12/12 16:00	11/13/12 21:45	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	11/12/12 16:00	11/13/12 21:45	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	11/12/12 16:00	11/13/12 21:45	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 21:45	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	11/12/12 16:00	11/13/12 21:45	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.79	1	11/12/12 16:00	11/13/12 21:45	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 21:45	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 21:45	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	11/12/12 16:00	11/13/12 21:45	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	11/12/12 16:00	11/13/12 21:45	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	11/12/12 16:00	11/13/12 21:45	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	11/12/12 16:00	11/13/12 21:45	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	11/12/12 16:00	11/13/12 21:45	193-39-5	

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ANALYTICAL RESULTS

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Sample: ECIE-1112-MW8 **Lab ID: 92138123002** Collected: 11/08/12 15:00 Received: 11/09/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Isophorone	ND	ug/L	10.0	0.89	1	11/12/12 16:00	11/13/12 21:45	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	0.32	1	11/12/12 16:00	11/13/12 21:45	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	11/12/12 16:00	11/13/12 21:45	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	11/12/12 16:00	11/13/12 21:45	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	11/12/12 16:00	11/13/12 21:45		
Naphthalene	ND	ug/L	10.0	0.34	1	11/12/12 16:00	11/13/12 21:45	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	11/12/12 16:00	11/13/12 21:45	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	11/12/12 16:00	11/13/12 21:45	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	11/12/12 16:00	11/13/12 21:45	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	11/12/12 16:00	11/13/12 21:45	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	11/12/12 16:00	11/13/12 21:45	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	11/12/12 16:00	11/13/12 21:45	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	11/12/12 16:00	11/13/12 21:45	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	11/12/12 16:00	11/13/12 21:45	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	11/12/12 16:00	11/13/12 21:45	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	11/12/12 16:00	11/13/12 21:45	87-86-5	
Phenanthrene	ND	ug/L	10.0	0.22	1	11/12/12 16:00	11/13/12 21:45	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	11/12/12 16:00	11/13/12 21:45	108-95-2	
Pyrene	ND	ug/L	10.0	0.19	1	11/12/12 16:00	11/13/12 21:45	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 21:45	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	11/12/12 16:00	11/13/12 21:45	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	11/12/12 16:00	11/13/12 21:45	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	62	%	21-110		1	11/12/12 16:00	11/13/12 21:45	4165-60-0	
2-Fluorobiphenyl (S)	71	%	27-110		1	11/12/12 16:00	11/13/12 21:45	321-60-8	
Terphenyl-d14 (S)	106	%	31-107		1	11/12/12 16:00	11/13/12 21:45	1718-51-0	
Phenol-d6 (S)	18	%	10-110		1	11/12/12 16:00	11/13/12 21:45	13127-88-3	
2-Fluorophenol (S)	29	%	12-110		1	11/12/12 16:00	11/13/12 21:45	367-12-4	
2,4,6-Tribromophenol (S)	71	%	27-110		1	11/12/12 16:00	11/13/12 21:45	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		11/13/12 04:51	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		11/13/12 04:51	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		11/13/12 04:51	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/13/12 04:51	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/13/12 04:51	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/13/12 04:51	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/13/12 04:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/13/12 04:51	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/13/12 04:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		11/13/12 04:51	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/13/12 04:51	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		11/13/12 04:51	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/13/12 04:51	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		11/13/12 04:51	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		11/13/12 04:51	106-43-4	

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ANALYTICAL RESULTS

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Sample: ECIE-1112-MW8 **Lab ID: 92138123002** Collected: 11/08/12 15:00 Received: 11/09/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/13/12 04:51	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/13/12 04:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/13/12 04:51	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/13/12 04:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		11/13/12 04:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/13/12 04:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		11/13/12 04:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		11/13/12 04:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		11/13/12 04:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/13/12 04:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/13/12 04:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		11/13/12 04:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/13/12 04:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/13/12 04:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/13/12 04:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/13/12 04:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/13/12 04:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/13/12 04:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/13/12 04:51	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		11/13/12 04:51	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/13/12 04:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		11/13/12 04:51	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/13/12 04:51	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		11/13/12 04:51	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		11/13/12 04:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/13/12 04:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		11/13/12 04:51	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		11/13/12 04:51	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		11/13/12 04:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/13/12 04:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/13/12 04:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		11/13/12 04:51	127-18-4	
Toluene	**1.5**	ug/L	1.0	0.26	1		11/13/12 04:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		11/13/12 04:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/13/12 04:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/13/12 04:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/13/12 04:51	79-00-5	
Trichloroethene	**154**	ug/L	1.0	0.47	1		11/13/12 04:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/13/12 04:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/13/12 04:51	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/13/12 04:51	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		11/13/12 04:51	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/13/12 04:51	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/13/12 04:51	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/13/12 04:51	95-47-6	

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ANALYTICAL RESULTS

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Sample: ECIE-1112-MW8 **Lab ID: 92138123002** Collected: 11/08/12 15:00 Received: 11/09/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		11/13/12 04:51	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		11/13/12 04:51	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		11/13/12 04:51	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		11/13/12 04:51	2037-26-5	

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ANALYTICAL RESULTS

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Sample: ECIE-1112-MW9 **Lab ID: 92138123003** Collected: 11/08/12 18:00 Received: 11/09/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	10.0	0.25	1	11/12/12 16:00	11/13/12 22:18	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 22:18	208-96-8	
Aniline	ND	ug/L	10.0	2.0	1	11/12/12 16:00	11/13/12 22:18	62-53-3	
Anthracene	ND	ug/L	10.0	0.14	1	11/12/12 16:00	11/13/12 22:18	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	11/12/12 16:00	11/13/12 22:18	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	11/12/12 16:00	11/13/12 22:18	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	11/12/12 16:00	11/13/12 22:18	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	11/12/12 16:00	11/13/12 22:18	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	11/12/12 16:00	11/13/12 22:18	207-08-9	
Benzoic Acid	ND	ug/L	50.0	11.5	1	11/12/12 16:00	11/13/12 22:18	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	11/12/12 16:00	11/13/12 22:18	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	11/12/12 16:00	11/13/12 22:18	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	11/12/12 16:00	11/13/12 22:18	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	11/12/12 16:00	11/13/12 22:18	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	11/12/12 16:00	11/13/12 22:18	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	11/12/12 16:00	11/13/12 22:18	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	11/12/12 16:00	11/13/12 22:18	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	11/12/12 16:00	11/13/12 22:18	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 22:18	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	11/12/12 16:00	11/13/12 22:18	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	11/12/12 16:00	11/13/12 22:18	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 22:18	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	11/12/12 16:00	11/13/12 22:18	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.89	1	11/12/12 16:00	11/13/12 22:18	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.88	1	11/12/12 16:00	11/13/12 22:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.81	1	11/12/12 16:00	11/13/12 22:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.95	1	11/12/12 16:00	11/13/12 22:18	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	11/12/12 16:00	11/13/12 22:18	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	11/12/12 16:00	11/13/12 22:18	120-83-2	
Diethylphthalate	ND	ug/L	10.0	0.58	1	11/12/12 16:00	11/13/12 22:18	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	11/12/12 16:00	11/13/12 22:18	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	11/12/12 16:00	11/13/12 22:18	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	11/12/12 16:00	11/13/12 22:18	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.6	1	11/12/12 16:00	11/13/12 22:18	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	11/12/12 16:00	11/13/12 22:18	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	11/12/12 16:00	11/13/12 22:18	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 22:18	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	11/12/12 16:00	11/13/12 22:18	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.79	1	11/12/12 16:00	11/13/12 22:18	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 22:18	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 22:18	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	11/12/12 16:00	11/13/12 22:18	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	11/12/12 16:00	11/13/12 22:18	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	11/12/12 16:00	11/13/12 22:18	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	11/12/12 16:00	11/13/12 22:18	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	11/12/12 16:00	11/13/12 22:18	193-39-5	

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ANALYTICAL RESULTS

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Sample: ECIE-1112-MW9 **Lab ID: 92138123003** Collected: 11/08/12 18:00 Received: 11/09/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Isophorone	ND	ug/L	10.0	0.89	1	11/12/12 16:00	11/13/12 22:18	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	0.32	1	11/12/12 16:00	11/13/12 22:18	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	11/12/12 16:00	11/13/12 22:18	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	11/12/12 16:00	11/13/12 22:18	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	11/12/12 16:00	11/13/12 22:18		
Naphthalene	ND	ug/L	10.0	0.34	1	11/12/12 16:00	11/13/12 22:18	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	11/12/12 16:00	11/13/12 22:18	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	11/12/12 16:00	11/13/12 22:18	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	11/12/12 16:00	11/13/12 22:18	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	11/12/12 16:00	11/13/12 22:18	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	11/12/12 16:00	11/13/12 22:18	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	11/12/12 16:00	11/13/12 22:18	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	11/12/12 16:00	11/13/12 22:18	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	11/12/12 16:00	11/13/12 22:18	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	11/12/12 16:00	11/13/12 22:18	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	11/12/12 16:00	11/13/12 22:18	87-86-5	
Phenanthrene	ND	ug/L	10.0	0.22	1	11/12/12 16:00	11/13/12 22:18	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	11/12/12 16:00	11/13/12 22:18	108-95-2	
Pyrene	ND	ug/L	10.0	0.19	1	11/12/12 16:00	11/13/12 22:18	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 22:18	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	11/12/12 16:00	11/13/12 22:18	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	11/12/12 16:00	11/13/12 22:18	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	42	%	21-110		1	11/12/12 16:00	11/13/12 22:18	4165-60-0	
2-Fluorobiphenyl (S)	50	%	27-110		1	11/12/12 16:00	11/13/12 22:18	321-60-8	
Terphenyl-d14 (S)	116	%	31-107		1	11/12/12 16:00	11/13/12 22:18	1718-51-0	S0
Phenol-d6 (S)	12	%	10-110		1	11/12/12 16:00	11/13/12 22:18	13127-88-3	
2-Fluorophenol (S)	22	%	12-110		1	11/12/12 16:00	11/13/12 22:18	367-12-4	
2,4,6-Tribromophenol (S)	58	%	27-110		1	11/12/12 16:00	11/13/12 22:18	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		11/13/12 05:07	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		11/13/12 05:07	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		11/13/12 05:07	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/13/12 05:07	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/13/12 05:07	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/13/12 05:07	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/13/12 05:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/13/12 05:07	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/13/12 05:07	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		11/13/12 05:07	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/13/12 05:07	75-00-3	
Chloroform	**1.4**	ug/L	1.0	0.14	1		11/13/12 05:07	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/13/12 05:07	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		11/13/12 05:07	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		11/13/12 05:07	106-43-4	

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ANALYTICAL RESULTS

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Sample: ECIE-1112-MW9 **Lab ID: 92138123003** Collected: 11/08/12 18:00 Received: 11/09/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/13/12 05:07	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/13/12 05:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/13/12 05:07	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/13/12 05:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		11/13/12 05:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/13/12 05:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		11/13/12 05:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		11/13/12 05:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		11/13/12 05:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/13/12 05:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/13/12 05:07	75-35-4	
cis-1,2-Dichloroethene	**16.0**	ug/L	1.0	0.19	1		11/13/12 05:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/13/12 05:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/13/12 05:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/13/12 05:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/13/12 05:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/13/12 05:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/13/12 05:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/13/12 05:07	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		11/13/12 05:07	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/13/12 05:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		11/13/12 05:07	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/13/12 05:07	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		11/13/12 05:07	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		11/13/12 05:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/13/12 05:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		11/13/12 05:07	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		11/13/12 05:07	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		11/13/12 05:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/13/12 05:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/13/12 05:07	79-34-5	
Tetrachloroethene	**36.0**	ug/L	1.0	0.46	1		11/13/12 05:07	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		11/13/12 05:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		11/13/12 05:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/13/12 05:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/13/12 05:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/13/12 05:07	79-00-5	
Trichloroethene	**1560**	ug/L	20.0	9.4	20		11/14/12 02:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/13/12 05:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/13/12 05:07	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/13/12 05:07	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		11/13/12 05:07	75-01-4	
Xylene (Total)	**2.5**	ug/L	2.0	0.66	1		11/13/12 05:07	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/13/12 05:07	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/13/12 05:07	95-47-6	

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ANALYTICAL RESULTS

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Sample: ECIE-1112-MW9 **Lab ID: 92138123003** Collected: 11/08/12 18:00 Received: 11/09/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/13/12 05:07	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		11/13/12 05:07	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		11/13/12 05:07	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/13/12 05:07	2037-26-5	

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ANALYTICAL RESULTS

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Sample: ECIE-1112-ERB **Lab ID: 92138123004** Collected: 11/08/12 18:30 Received: 11/09/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	5.0	2.6	1	11/10/12 12:45	11/13/12 03:54	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	11/10/12 12:45	11/13/12 03:54	7440-38-2	
Beryllium	ND	ug/L	1.0	0.50	1	11/10/12 12:45	11/13/12 03:54	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	11/10/12 12:45	11/13/12 03:54	7440-43-9	
Chromium	ND	ug/L	5.0	2.0	1	11/10/12 12:45	11/13/12 03:54	7440-47-3	
Copper	ND	ug/L	5.0	2.0	1	11/10/12 12:45	11/13/12 03:54	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	11/10/12 12:45	11/13/12 03:54	7439-92-1	
Manganese	ND	ug/L	5.0	2.5	1	11/10/12 12:45	11/13/12 03:54	7439-96-5	
Nickel	ND	ug/L	5.0	2.5	1	11/10/12 12:45	11/13/12 03:54	7440-02-0	
Selenium	ND	ug/L	10.0	5.0	1	11/10/12 12:45	11/13/12 03:54	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	11/10/12 12:45	11/13/12 03:54	7440-22-4	
Thallium	ND	ug/L	10.0	5.0	1	11/10/12 12:45	11/13/12 03:54	7440-28-0	
Zinc	ND	ug/L	10.0	5.0	1	11/10/12 12:45	11/13/12 03:54	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	11/15/12 15:35	11/16/12 11:51	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270		Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	10.0	0.25	1	11/12/12 16:00	11/13/12 22:50	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 22:50	208-96-8	
Aniline	ND	ug/L	10.0	2.0	1	11/12/12 16:00	11/13/12 22:50	62-53-3	
Anthracene	ND	ug/L	10.0	0.14	1	11/12/12 16:00	11/13/12 22:50	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	11/12/12 16:00	11/13/12 22:50	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	11/12/12 16:00	11/13/12 22:50	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	11/12/12 16:00	11/13/12 22:50	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	11/12/12 16:00	11/13/12 22:50	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	11/12/12 16:00	11/13/12 22:50	207-08-9	
Benzoic Acid	ND	ug/L	50.0	11.5	1	11/12/12 16:00	11/13/12 22:50	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	11/12/12 16:00	11/13/12 22:50	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	11/12/12 16:00	11/13/12 22:50	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	11/12/12 16:00	11/13/12 22:50	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	11/12/12 16:00	11/13/12 22:50	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	11/12/12 16:00	11/13/12 22:50	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	11/12/12 16:00	11/13/12 22:50	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	11/12/12 16:00	11/13/12 22:50	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	11/12/12 16:00	11/13/12 22:50	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 22:50	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	11/12/12 16:00	11/13/12 22:50	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	11/12/12 16:00	11/13/12 22:50	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 22:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	11/12/12 16:00	11/13/12 22:50	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.89	1	11/12/12 16:00	11/13/12 22:50	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.88	1	11/12/12 16:00	11/13/12 22:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.81	1	11/12/12 16:00	11/13/12 22:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.95	1	11/12/12 16:00	11/13/12 22:50	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	11/12/12 16:00	11/13/12 22:50	91-94-1	

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ANALYTICAL RESULTS

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Sample: ECIE-1112-ERB **Lab ID: 92138123004** Collected: 11/08/12 18:30 Received: 11/09/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	11/12/12 16:00	11/13/12 22:50	120-83-2	
Diethylphthalate	ND	ug/L	10.0	0.58	1	11/12/12 16:00	11/13/12 22:50	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	11/12/12 16:00	11/13/12 22:50	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	11/12/12 16:00	11/13/12 22:50	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	11/12/12 16:00	11/13/12 22:50	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	2.6	1	11/12/12 16:00	11/13/12 22:50	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	9.0	1	11/12/12 16:00	11/13/12 22:50	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.90	1	11/12/12 16:00	11/13/12 22:50	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 22:50	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.66	1	11/12/12 16:00	11/13/12 22:50	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.79	1	11/12/12 16:00	11/13/12 22:50	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 22:50	206-44-0	
Fluorene	ND	ug/L	10.0	0.21	1	11/12/12 16:00	11/13/12 22:50	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.94	1	11/12/12 16:00	11/13/12 22:50	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.72	1	11/12/12 16:00	11/13/12 22:50	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.88	1	11/12/12 16:00	11/13/12 22:50	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.1	1	11/12/12 16:00	11/13/12 22:50	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.29	1	11/12/12 16:00	11/13/12 22:50	193-39-5	
Isophorone	ND	ug/L	10.0	0.89	1	11/12/12 16:00	11/13/12 22:50	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	0.32	1	11/12/12 16:00	11/13/12 22:50	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	0.28	1	11/12/12 16:00	11/13/12 22:50	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.6	1	11/12/12 16:00	11/13/12 22:50	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	2.0	1	11/12/12 16:00	11/13/12 22:50		
Naphthalene	ND	ug/L	10.0	0.34	1	11/12/12 16:00	11/13/12 22:50	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.0	1	11/12/12 16:00	11/13/12 22:50	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.0	1	11/12/12 16:00	11/13/12 22:50	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.1	1	11/12/12 16:00	11/13/12 22:50	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	11/12/12 16:00	11/13/12 22:50	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.91	1	11/12/12 16:00	11/13/12 22:50	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	4.1	1	11/12/12 16:00	11/13/12 22:50	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.91	1	11/12/12 16:00	11/13/12 22:50	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.99	1	11/12/12 16:00	11/13/12 22:50	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.0	1	11/12/12 16:00	11/13/12 22:50	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	4.6	1	11/12/12 16:00	11/13/12 22:50	87-86-5	
Phenanthrene	ND	ug/L	10.0	0.22	1	11/12/12 16:00	11/13/12 22:50	85-01-8	
Phenol	ND	ug/L	10.0	1.9	1	11/12/12 16:00	11/13/12 22:50	108-95-2	
Pyrene	ND	ug/L	10.0	0.19	1	11/12/12 16:00	11/13/12 22:50	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.98	1	11/12/12 16:00	11/13/12 22:50	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.92	1	11/12/12 16:00	11/13/12 22:50	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.3	1	11/12/12 16:00	11/13/12 22:50	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	73	%	21-110		1	11/12/12 16:00	11/13/12 22:50	4165-60-0	
2-Fluorobiphenyl (S)	81	%	27-110		1	11/12/12 16:00	11/13/12 22:50	321-60-8	
Terphenyl-d14 (S)	100	%	31-107		1	11/12/12 16:00	11/13/12 22:50	1718-51-0	
Phenol-d6 (S)	19	%	10-110		1	11/12/12 16:00	11/13/12 22:50	13127-88-3	
2-Fluorophenol (S)	36	%	12-110		1	11/12/12 16:00	11/13/12 22:50	367-12-4	

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ANALYTICAL RESULTS

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Sample: ECIE-1112-ERB **Lab ID: 92138123004** Collected: 11/08/12 18:30 Received: 11/09/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Surrogates									
2,4,6-Tribromophenol (S)	81	%	27-110		1	11/12/12 16:00	11/13/12 22:50	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		11/13/12 01:26	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		11/13/12 01:26	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		11/13/12 01:26	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/13/12 01:26	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/13/12 01:26	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/13/12 01:26	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/13/12 01:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/13/12 01:26	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/13/12 01:26	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		11/13/12 01:26	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/13/12 01:26	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		11/13/12 01:26	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/13/12 01:26	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		11/13/12 01:26	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		11/13/12 01:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/13/12 01:26	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/13/12 01:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/13/12 01:26	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/13/12 01:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		11/13/12 01:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/13/12 01:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		11/13/12 01:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		11/13/12 01:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		11/13/12 01:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/13/12 01:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/13/12 01:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		11/13/12 01:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/13/12 01:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/13/12 01:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/13/12 01:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/13/12 01:26	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/13/12 01:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/13/12 01:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/13/12 01:26	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		11/13/12 01:26	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/13/12 01:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		11/13/12 01:26	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/13/12 01:26	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		11/13/12 01:26	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		11/13/12 01:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/13/12 01:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		11/13/12 01:26	1634-04-4	

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ANALYTICAL RESULTS

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Sample: ECIE-1112-ERB **Lab ID: 92138123004** Collected: 11/08/12 18:30 Received: 11/09/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Naphthalene	ND	ug/L	1.0	0.24	1		11/13/12 01:26	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		11/13/12 01:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/13/12 01:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/13/12 01:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		11/13/12 01:26	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		11/13/12 01:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		11/13/12 01:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/13/12 01:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/13/12 01:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/13/12 01:26	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		11/13/12 01:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/13/12 01:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/13/12 01:26	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/13/12 01:26	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		11/13/12 01:26	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/13/12 01:26	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/13/12 01:26	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/13/12 01:26	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		11/13/12 01:26	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		11/13/12 01:26	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		11/13/12 01:26	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		11/13/12 01:26	2037-26-5	

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ANALYTICAL RESULTS

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Sample: Trip Blank **Lab ID: 92138123005** Collected: 11/08/12 00:00 Received: 11/09/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		11/13/12 01:41	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		11/13/12 01:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		11/13/12 01:41	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		11/13/12 01:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		11/13/12 01:41	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		11/13/12 01:41	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		11/13/12 01:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		11/13/12 01:41	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		11/13/12 01:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		11/13/12 01:41	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		11/13/12 01:41	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		11/13/12 01:41	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		11/13/12 01:41	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		11/13/12 01:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		11/13/12 01:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		11/13/12 01:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		11/13/12 01:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		11/13/12 01:41	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		11/13/12 01:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		11/13/12 01:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		11/13/12 01:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		11/13/12 01:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		11/13/12 01:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		11/13/12 01:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/13/12 01:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		11/13/12 01:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		11/13/12 01:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		11/13/12 01:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		11/13/12 01:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		11/13/12 01:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		11/13/12 01:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		11/13/12 01:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		11/13/12 01:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		11/13/12 01:41	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		11/13/12 01:41	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/13/12 01:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		11/13/12 01:41	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		11/13/12 01:41	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		11/13/12 01:41	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		11/13/12 01:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		11/13/12 01:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		11/13/12 01:41	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		11/13/12 01:41	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		11/13/12 01:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		11/13/12 01:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		11/13/12 01:41	79-34-5	

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ANALYTICAL RESULTS

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Sample: Trip Blank **Lab ID: 92138123005** Collected: 11/08/12 00:00 Received: 11/09/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	ND	ug/L	1.0	0.46	1		11/13/12 01:41	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		11/13/12 01:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		11/13/12 01:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		11/13/12 01:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		11/13/12 01:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		11/13/12 01:41	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		11/13/12 01:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		11/13/12 01:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		11/13/12 01:41	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		11/13/12 01:41	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		11/13/12 01:41	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/13/12 01:41	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/13/12 01:41	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/13/12 01:41	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/13/12 01:41	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		11/13/12 01:41	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		11/13/12 01:41	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		11/13/12 01:41	2037-26-5	

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QUALITY CONTROL DATA

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

QC Batch: GCV/6400
QC Batch Method: EPA 5030/8015 Mod.
Analysis Method: EPA 5030/8015 Mod.
Analysis Description: Gasoline Range Organics
Associated Lab Samples: 92138123001

METHOD BLANK: 870350
Matrix: Water
Associated Lab Samples: 92138123001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/L	ND	0.080	11/13/12 23:02	
4-Bromofluorobenzene (S)	%	89	70-145	11/13/12 23:02	

LABORATORY CONTROL SAMPLE: 870351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/L	.5	0.48	96	70-150	
4-Bromofluorobenzene (S)	%			84	70-145	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 870352 870353

Parameter	Units	92137276001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Gasoline Range Organics	mg/L	ND	.5	.5	0.52	0.51	104	102	70-150	2	30	
4-Bromofluorobenzene (S)	%						83	89	70-145			

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QUALITY CONTROL DATA

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

QC Batch: MERP/4682
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 92138123004

METHOD BLANK: 873091
Matrix: Water
Associated Lab Samples: 92138123004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	11/16/12 11:45	

LABORATORY CONTROL SAMPLE: 873092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.6	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 873093 873094

Parameter	Units	92138123004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.6	2.6	105	105	75-125	0	25	

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QUALITY CONTROL DATA

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

QC Batch: MPRP/11954
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 92138123004

METHOD BLANK: 870269
Matrix: Water
Associated Lab Samples: 92138123004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	11/13/12 02:34	
Arsenic	ug/L	ND	5.0	11/13/12 02:34	
Beryllium	ug/L	ND	1.0	11/13/12 02:34	
Cadmium	ug/L	ND	1.0	11/13/12 02:34	
Chromium	ug/L	ND	5.0	11/13/12 02:34	
Copper	ug/L	ND	5.0	11/13/12 02:34	
Lead	ug/L	ND	5.0	11/13/12 02:34	
Manganese	ug/L	ND	5.0	11/13/12 02:34	
Nickel	ug/L	ND	5.0	11/13/12 02:34	
Selenium	ug/L	ND	10.0	11/13/12 02:34	
Silver	ug/L	ND	5.0	11/13/12 02:34	
Thallium	ug/L	ND	10.0	11/13/12 02:34	
Zinc	ug/L	ND	10.0	11/13/12 02:34	

LABORATORY CONTROL SAMPLE: 870270

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	485	97	80-120	
Arsenic	ug/L	500	467	93	80-120	
Beryllium	ug/L	500	481	96	80-120	
Cadmium	ug/L	500	473	95	80-120	
Chromium	ug/L	500	477	95	80-120	
Copper	ug/L	500	493	99	80-120	
Lead	ug/L	500	480	96	80-120	
Manganese	ug/L	500	476	95	80-120	
Nickel	ug/L	500	475	95	80-120	
Selenium	ug/L	500	476	95	80-120	
Silver	ug/L	250	244	98	80-120	
Thallium	ug/L	500	469	94	80-120	
Zinc	ug/L	500	475	95	80-120	

MATRIX SPIKE SAMPLE: 870271

Parameter	Units	92138121008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	481	96	75-125	
Arsenic	ug/L	10.0	500	474	93	75-125	
Beryllium	ug/L	ND	500	476	95	75-125	
Cadmium	ug/L	ND	500	465	93	75-125	
Chromium	ug/L	5.1	500	476	94	75-125	
Copper	ug/L	ND	500	490	98	75-125	

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QUALITY CONTROL DATA

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

MATRIX SPIKE SAMPLE: 870271

Parameter	Units	92138121008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	500	464	93	75-125	
Manganese	ug/L	11.6	500	479	93	75-125	
Nickel	ug/L	ND	500	469	94	75-125	
Selenium	ug/L	8.8J	500	444	87	75-125	
Silver	ug/L	ND	250	240	96	75-125	
Thallium	ug/L	ND	500	461	92	75-125	
Zinc	ug/L	17.2	500	469	90	75-125	

SAMPLE DUPLICATE: 870272

Parameter	Units	92138121009 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		20	
Arsenic	ug/L	ND	ND		20	
Beryllium	ug/L	ND	ND		20	
Cadmium	ug/L	ND	ND		20	
Chromium	ug/L	ND	ND		20	
Copper	ug/L	ND	ND		20	
Lead	ug/L	ND	ND		20	
Manganese	ug/L	ND	ND		20	
Nickel	ug/L	ND	ND		20	
Selenium	ug/L	ND	ND		20	
Silver	ug/L	ND	ND		20	
Thallium	ug/L	ND	ND		20	
Zinc	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

QC Batch: MSV/21066 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92138123001, 92138123002, 92138123003, 92138123004, 92138123005

METHOD BLANK: 870701 Matrix: Water
Associated Lab Samples: 92138123001, 92138123002, 92138123003, 92138123004, 92138123005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/13/12 00:54	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/13/12 00:54	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/13/12 00:54	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/13/12 00:54	
1,1-Dichloroethane	ug/L	ND	1.0	11/13/12 00:54	
1,1-Dichloroethene	ug/L	ND	1.0	11/13/12 00:54	
1,1-Dichloropropene	ug/L	ND	1.0	11/13/12 00:54	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/13/12 00:54	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/13/12 00:54	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/13/12 00:54	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	11/13/12 00:54	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/13/12 00:54	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/13/12 00:54	
1,2-Dichloroethane	ug/L	ND	1.0	11/13/12 00:54	
1,2-Dichloropropane	ug/L	ND	1.0	11/13/12 00:54	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/13/12 00:54	
1,3-Dichloropropane	ug/L	ND	1.0	11/13/12 00:54	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/13/12 00:54	
2,2-Dichloropropane	ug/L	ND	1.0	11/13/12 00:54	
2-Butanone (MEK)	ug/L	ND	5.0	11/13/12 00:54	
2-Chlorotoluene	ug/L	ND	1.0	11/13/12 00:54	
2-Hexanone	ug/L	ND	5.0	11/13/12 00:54	
4-Chlorotoluene	ug/L	ND	1.0	11/13/12 00:54	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/13/12 00:54	
Acetone	ug/L	ND	25.0	11/13/12 00:54	
Benzene	ug/L	ND	1.0	11/13/12 00:54	
Bromobenzene	ug/L	ND	1.0	11/13/12 00:54	
Bromochloromethane	ug/L	ND	1.0	11/13/12 00:54	
Bromodichloromethane	ug/L	ND	1.0	11/13/12 00:54	
Bromoform	ug/L	ND	1.0	11/13/12 00:54	
Bromomethane	ug/L	ND	2.0	11/13/12 00:54	
Carbon tetrachloride	ug/L	ND	1.0	11/13/12 00:54	
Chlorobenzene	ug/L	ND	1.0	11/13/12 00:54	
Chloroethane	ug/L	ND	1.0	11/13/12 00:54	
Chloroform	ug/L	ND	1.0	11/13/12 00:54	
Chloromethane	ug/L	ND	1.0	11/13/12 00:54	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/13/12 00:54	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/13/12 00:54	
Dibromochloromethane	ug/L	ND	1.0	11/13/12 00:54	
Dibromomethane	ug/L	ND	1.0	11/13/12 00:54	
Dichlorodifluoromethane	ug/L	ND	1.0	11/13/12 00:54	
Diisopropyl ether	ug/L	ND	1.0	11/13/12 00:54	
Ethylbenzene	ug/L	ND	1.0	11/13/12 00:54	

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QUALITY CONTROL DATA

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

METHOD BLANK: 870701 Matrix: Water

Associated Lab Samples: 92138123001, 92138123002, 92138123003, 92138123004, 92138123005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	11/13/12 00:54	
m&p-Xylene	ug/L	ND	2.0	11/13/12 00:54	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/13/12 00:54	
Methylene Chloride	ug/L	ND	2.0	11/13/12 00:54	
Naphthalene	ug/L	ND	1.0	11/13/12 00:54	
o-Xylene	ug/L	ND	1.0	11/13/12 00:54	
p-Isopropyltoluene	ug/L	ND	1.0	11/13/12 00:54	
Styrene	ug/L	ND	1.0	11/13/12 00:54	
Tetrachloroethene	ug/L	ND	1.0	11/13/12 00:54	
Toluene	ug/L	ND	1.0	11/13/12 00:54	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/13/12 00:54	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/13/12 00:54	
Trichloroethene	ug/L	ND	1.0	11/13/12 00:54	
Trichlorofluoromethane	ug/L	ND	1.0	11/13/12 00:54	
Vinyl acetate	ug/L	ND	2.0	11/13/12 00:54	
Vinyl chloride	ug/L	ND	1.0	11/13/12 00:54	
Xylene (Total)	ug/L	ND	2.0	11/13/12 00:54	
1,2-Dichloroethane-d4 (S)	%	105	70-130	11/13/12 00:54	
4-Bromofluorobenzene (S)	%	98	70-130	11/13/12 00:54	
Dibromofluoromethane (S)	%	99	70-130	11/13/12 00:54	
Toluene-d8 (S)	%	98	70-130	11/13/12 00:54	

LABORATORY CONTROL SAMPLE: 870702

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.3	101	70-130	
1,1,1-Trichloroethane	ug/L	50	51.7	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.1	96	70-130	
1,1,2-Trichloroethane	ug/L	50	53.3	107	70-130	
1,1-Dichloroethane	ug/L	50	51.5	103	70-130	
1,1-Dichloroethene	ug/L	50	55.9	112	70-132	
1,1-Dichloropropene	ug/L	50	49.5	99	70-130	
1,2,3-Trichlorobenzene	ug/L	50	51.6	103	70-135	
1,2,3-Trichloropropane	ug/L	50	47.8	96	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.1	102	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	52.1	104	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	49.8	100	70-130	
1,2-Dichlorobenzene	ug/L	50	52.4	105	70-130	
1,2-Dichloroethane	ug/L	50	49.6	99	70-130	
1,2-Dichloropropane	ug/L	50	51.4	103	70-130	
1,3-Dichlorobenzene	ug/L	50	50.8	102	70-130	
1,3-Dichloropropane	ug/L	50	49.3	99	70-130	
1,4-Dichlorobenzene	ug/L	50	52.8	106	70-130	
2,2-Dichloropropane	ug/L	50	44.0	88	58-145	
2-Butanone (MEK)	ug/L	100	89.0	89	70-145	

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QUALITY CONTROL DATA

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

LABORATORY CONTROL SAMPLE: 870702

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chlorotoluene	ug/L	50	53.1	106	70-130	
2-Hexanone	ug/L	100	107	107	70-144	
4-Chlorotoluene	ug/L	50	53.1	106	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	70-140	
Acetone	ug/L	100	84.2	84	50-175	
Benzene	ug/L	50	52.8	106	70-130	
Bromobenzene	ug/L	50	52.3	105	70-130	
Bromochloromethane	ug/L	50	48.5	97	70-130	
Bromodichloromethane	ug/L	50	53.0	106	70-130	
Bromoform	ug/L	50	52.0	104	70-130	
Bromomethane	ug/L	50	60.4	121	54-130	
Carbon tetrachloride	ug/L	50	54.0	108	70-132	
Chlorobenzene	ug/L	50	52.3	105	70-130	
Chloroethane	ug/L	50	60.3	121	64-134	
Chloroform	ug/L	50	47.8	96	70-130	
Chloromethane	ug/L	50	57.4	115	64-130	
cis-1,2-Dichloroethene	ug/L	50	47.5	95	70-131	
cis-1,3-Dichloropropene	ug/L	50	52.0	104	70-130	
Dibromochloromethane	ug/L	50	51.4	103	70-130	
Dibromomethane	ug/L	50	51.1	102	70-131	
Dichlorodifluoromethane	ug/L	50	52.8	106	56-130	
Diisopropyl ether	ug/L	50	49.5	99	70-130	
Ethylbenzene	ug/L	50	52.4	105	70-130	
Hexachloro-1,3-butadiene	ug/L	50	50.4	101	70-130	
m&p-Xylene	ug/L	100	108	108	70-130	
Methyl-tert-butyl ether	ug/L	50	51.3	103	70-130	
Methylene Chloride	ug/L	50	52.0	104	63-130	
Naphthalene	ug/L	50	52.9	106	70-138	
o-Xylene	ug/L	50	50.5	101	70-130	
p-Isopropyltoluene	ug/L	50	52.6	105	70-130	
Styrene	ug/L	50	53.0	106	70-130	
Tetrachloroethene	ug/L	50	50.4	101	70-130	
Toluene	ug/L	50	52.7	105	70-130	
trans-1,2-Dichloroethene	ug/L	50	45.9	92	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.7	101	70-132	
Trichloroethene	ug/L	50	52.5	105	70-130	
Trichlorofluoromethane	ug/L	50	59.9	120	62-133	
Vinyl acetate	ug/L	100	91.8	92	66-157	
Vinyl chloride	ug/L	50	48.9	98	69-130	
Xylene (Total)	ug/L	150	158	105	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Dibromofluoromethane (S)	%			94	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 870703 870704

Parameter	Units	92138128003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	67.4	60.4	135	121	70-166	11	30	
Benzene	ug/L	ND	50	50	52.3	51.5	105	103	70-148	1	30	
Chlorobenzene	ug/L	ND	50	50	59.9	58.1	120	116	70-146	3	30	
Toluene	ug/L	ND	50	50	59.2	58.6	118	117	70-155	1	30	
Trichloroethene	ug/L	ND	50	50	60.0	59.5	119	118	69-151	1	30	
1,2-Dichloroethane-d4 (S)	%						103	105	70-130			
4-Bromofluorobenzene (S)	%						98	99	70-130			
Dibromofluoromethane (S)	%						103	101	70-130			
Toluene-d8 (S)	%						100	99	70-130			

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QUALITY CONTROL DATA

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

QC Batch: OEXT/19686 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
Associated Lab Samples: 92138123001, 92138123002, 92138123003, 92138123004

METHOD BLANK: 870731 Matrix: Water
Associated Lab Samples: 92138123001, 92138123002, 92138123003, 92138123004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	11/13/12 15:52	
1,2-Dichlorobenzene	ug/L	ND	10.0	11/13/12 15:52	
1,3-Dichlorobenzene	ug/L	ND	10.0	11/13/12 15:52	
1,4-Dichlorobenzene	ug/L	ND	10.0	11/13/12 15:52	
1-Methylnaphthalene	ug/L	ND	10.0	11/13/12 15:52	
2,4,5-Trichlorophenol	ug/L	ND	10.0	11/13/12 15:52	
2,4,6-Trichlorophenol	ug/L	ND	10.0	11/13/12 15:52	
2,4-Dichlorophenol	ug/L	ND	10.0	11/13/12 15:52	
2,4-Dimethylphenol	ug/L	ND	10.0	11/13/12 15:52	
2,4-Dinitrophenol	ug/L	ND	50.0	11/13/12 15:52	
2,4-Dinitrotoluene	ug/L	ND	10.0	11/13/12 15:52	
2,6-Dinitrotoluene	ug/L	ND	10.0	11/13/12 15:52	
2-Chloronaphthalene	ug/L	ND	10.0	11/13/12 15:52	
2-Chlorophenol	ug/L	ND	10.0	11/13/12 15:52	
2-Methylnaphthalene	ug/L	ND	10.0	11/13/12 15:52	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	11/13/12 15:52	
2-Nitroaniline	ug/L	ND	50.0	11/13/12 15:52	
2-Nitrophenol	ug/L	ND	10.0	11/13/12 15:52	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	11/13/12 15:52	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	11/13/12 15:52	
3-Nitroaniline	ug/L	ND	50.0	11/13/12 15:52	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	11/13/12 15:52	
4-Bromophenylphenyl ether	ug/L	ND	10.0	11/13/12 15:52	
4-Chloro-3-methylphenol	ug/L	ND	20.0	11/13/12 15:52	
4-Chloroaniline	ug/L	ND	20.0	11/13/12 15:52	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	11/13/12 15:52	
4-Nitroaniline	ug/L	ND	20.0	11/13/12 15:52	
4-Nitrophenol	ug/L	ND	50.0	11/13/12 15:52	
Acenaphthene	ug/L	ND	10.0	11/13/12 15:52	
Acenaphthylene	ug/L	ND	10.0	11/13/12 15:52	
Aniline	ug/L	ND	10.0	11/13/12 15:52	
Anthracene	ug/L	ND	10.0	11/13/12 15:52	
Benzo(a)anthracene	ug/L	ND	10.0	11/13/12 15:52	
Benzo(a)pyrene	ug/L	ND	10.0	11/13/12 15:52	
Benzo(b)fluoranthene	ug/L	ND	10.0	11/13/12 15:52	
Benzo(g,h,i)perylene	ug/L	ND	10.0	11/13/12 15:52	
Benzo(k)fluoranthene	ug/L	ND	10.0	11/13/12 15:52	
Benzoic Acid	ug/L	ND	50.0	11/13/12 15:52	
Benzyl alcohol	ug/L	ND	20.0	11/13/12 15:52	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	11/13/12 15:52	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	11/13/12 15:52	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	11/13/12 15:52	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	11/13/12 15:52	

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QUALITY CONTROL DATA

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

METHOD BLANK: 870731 Matrix: Water

Associated Lab Samples: 92138123001, 92138123002, 92138123003, 92138123004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	ug/L	ND	10.0	11/13/12 15:52	
Chrysene	ug/L	ND	10.0	11/13/12 15:52	
Di-n-butylphthalate	ug/L	ND	10.0	11/13/12 15:52	
Di-n-octylphthalate	ug/L	ND	10.0	11/13/12 15:52	
Dibenz(a,h)anthracene	ug/L	ND	10.0	11/13/12 15:52	
Dibenzofuran	ug/L	ND	10.0	11/13/12 15:52	
Diethylphthalate	ug/L	ND	10.0	11/13/12 15:52	
Dimethylphthalate	ug/L	ND	10.0	11/13/12 15:52	
Fluoranthene	ug/L	ND	10.0	11/13/12 15:52	
Fluorene	ug/L	ND	10.0	11/13/12 15:52	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	11/13/12 15:52	
Hexachlorobenzene	ug/L	ND	10.0	11/13/12 15:52	
Hexachlorocyclopentadiene	ug/L	ND	10.0	11/13/12 15:52	
Hexachloroethane	ug/L	ND	10.0	11/13/12 15:52	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	11/13/12 15:52	
Isophorone	ug/L	ND	10.0	11/13/12 15:52	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	11/13/12 15:52	
N-Nitrosodimethylamine	ug/L	ND	10.0	11/13/12 15:52	
N-Nitrosodiphenylamine	ug/L	ND	10.0	11/13/12 15:52	
Naphthalene	ug/L	ND	10.0	11/13/12 15:52	
Nitrobenzene	ug/L	ND	10.0	11/13/12 15:52	
Pentachlorophenol	ug/L	ND	25.0	11/13/12 15:52	
Phenanthrene	ug/L	ND	10.0	11/13/12 15:52	
Phenol	ug/L	ND	10.0	11/13/12 15:52	
Pyrene	ug/L	ND	10.0	11/13/12 15:52	
2,4,6-Tribromophenol (S)	%	77	27-110	11/13/12 15:52	
2-Fluorobiphenyl (S)	%	73	27-110	11/13/12 15:52	
2-Fluorophenol (S)	%	35	12-110	11/13/12 15:52	
Nitrobenzene-d5 (S)	%	67	21-110	11/13/12 15:52	
Phenol-d6 (S)	%	21	10-110	11/13/12 15:52	
Terphenyl-d14 (S)	%	100	31-107	11/13/12 15:52	

LABORATORY CONTROL SAMPLE: 870732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	21.8	44	10-110	
1,2-Dichlorobenzene	ug/L	50	22.6	45	10-110	
1,3-Dichlorobenzene	ug/L	50	20.7	41	10-110	
1,4-Dichlorobenzene	ug/L	50	21.7	43	10-110	
1-Methylnaphthalene	ug/L	50	24.9	50	21-110	
2,4,5-Trichlorophenol	ug/L	50	41.2	82	23-116	
2,4,6-Trichlorophenol	ug/L	50	41.3	83	21-114	
2,4-Dichlorophenol	ug/L	50	40.4	81	22-120	
2,4-Dimethylphenol	ug/L	50	35.0	70	15-109	
2,4-Dinitrophenol	ug/L	250	164	66	10-103	

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QUALITY CONTROL DATA

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

LABORATORY CONTROL SAMPLE: 870732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/L	50	31.8	64	24-119	
2,6-Dinitrotoluene	ug/L	50	33.4	67	25-116	
2-Chloronaphthalene	ug/L	50	28.2	56	18-110	
2-Chlorophenol	ug/L	50	35.0	70	10-104	
2-Methylnaphthalene	ug/L	50	24.4	49	16-110	
2-Methylphenol(o-Cresol)	ug/L	50	30.3	61	13-110	
2-Nitroaniline	ug/L	100	66.1	66	20-117	
2-Nitrophenol	ug/L	50	42.3	85	16-108	
3&4-Methylphenol(m&p Cresol)	ug/L	50	25.5	51	14-110	
3,3'-Dichlorobenzidine	ug/L	100	72.6	73	13-131	
3-Nitroaniline	ug/L	100	64.9	65	15-117	
4,6-Dinitro-2-methylphenol	ug/L	100	81.4	81	13-119	
4-Bromophenylphenyl ether	ug/L	50	46.6	93	23-120	
4-Chloro-3-methylphenol	ug/L	100	69.1	69	21-119	
4-Chloroaniline	ug/L	100	70.8	71	10-122	
4-Chlorophenylphenyl ether	ug/L	50	38.9	78	22-112	
4-Nitroaniline	ug/L	100	55.7	56	14-118	
4-Nitrophenol	ug/L	250	58.6	23	10-110	
Acenaphthene	ug/L	50	35.6	71	20-105	
Acenaphthylene	ug/L	50	34.0	68	23-106	
Aniline	ug/L	50	28.6	57	10-110	
Anthracene	ug/L	50	44.9	90	25-120	
Benzo(a)anthracene	ug/L	50	45.7	91	21-128	
Benzo(a)pyrene	ug/L	50	49.0	98	25-116	
Benzo(b)fluoranthene	ug/L	50	46.2	92	23-117	
Benzo(g,h,i)perylene	ug/L	50	50.0	100	17-128	
Benzo(k)fluoranthene	ug/L	50	45.6	91	25-127	
Benzoic Acid	ug/L	250	40.4J	16	10-110	
Benzyl alcohol	ug/L	100	62.2	62	10-101	
bis(2-Chloroethoxy)methane	ug/L	50	40.9	82	19-107	
bis(2-Chloroethyl) ether	ug/L	50	39.2	78	10-108	
bis(2-Chloroisopropyl) ether	ug/L	50	28.9	58	10-108	
bis(2-Ethylhexyl)phthalate	ug/L	50	40.9	82	16-123	
Butylbenzylphthalate	ug/L	50	38.6	77	20-118	
Chrysene	ug/L	50	45.5	91	24-125	
Di-n-butylphthalate	ug/L	50	39.4	79	23-115	
Di-n-octylphthalate	ug/L	50	43.5	87	20-115	
Dibenz(a,h)anthracene	ug/L	50	49.6	99	18-131	
Dibenzofuran	ug/L	50	36.6	73	23-106	
Diethylphthalate	ug/L	50	37.4	75	24-115	
Dimethylphthalate	ug/L	50	39.1	78	22-113	
Fluoranthene	ug/L	50	43.5	87	24-125	
Fluorene	ug/L	50	37.7	75	24-114	
Hexachloro-1,3-butadiene	ug/L	50	19.7	39	10-110	
Hexachlorobenzene	ug/L	50	48.0	96	22-127	
Hexachlorocyclopentadiene	ug/L	50	15.9	32	10-110	
Hexachloroethane	ug/L	50	17.9	36	10-110	
Indeno(1,2,3-cd)pyrene	ug/L	50	49.6	99	18-130	

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QUALITY CONTROL DATA

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

LABORATORY CONTROL SAMPLE: 870732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isophorone	ug/L	50	32.6	65	23-114	
N-Nitroso-di-n-propylamine	ug/L	50	35.9	72	21-114	
N-Nitrosodimethylamine	ug/L	50	23.4	47	10-110	
N-Nitrosodiphenylamine	ug/L	50	45.0	90	24-123	
Naphthalene	ug/L	50	27.7	55	14-110	
Nitrobenzene	ug/L	50	30.7	61	16-106	
Pentachlorophenol	ug/L	100	69.8	70	10-123	
Phenanthrene	ug/L	50	42.9	86	25-119	
Phenol	ug/L	50	15.2	30	10-110	
Pyrene	ug/L	50	42.8	86	22-127	
2,4,6-Tribromophenol (S)	%			91	27-110	
2-Fluorobiphenyl (S)	%			85	27-110	
2-Fluorophenol (S)	%			40	12-110	
Nitrobenzene-d5 (S)	%			78	21-110	
Phenol-d6 (S)	%			25	10-110	
Terphenyl-d14 (S)	%			92	31-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 870733 870734

Parameter	Units	92138031001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trichlorobenzene	ug/L	ND	100	100	48.0	55.0	48	55	10-110	13	30	
1,2-Dichlorobenzene	ug/L	ND	100	100	47.6	46.0	48	46	10-110	3	30	
1,3-Dichlorobenzene	ug/L	ND	100	100	42.8	42.2	43	42	10-110	1	30	
1,4-Dichlorobenzene	ug/L	ND	100	100	45.2	44.7	45	45	10-110	1	30	
1-Methylnaphthalene	ug/L	ND	100	100	64.8	69.4	65	69	14-110	7	30	
2,4,5-Trichlorophenol	ug/L	ND	100	100	79.0	79.2	79	79	19-105	0	30	
2,4,6-Trichlorophenol	ug/L	ND	100	100	76.4	79.6	76	80	13-108	4	30	
2,4-Dichlorophenol	ug/L	ND	100	100	80.5	79.1	80	79	29-111	2	30	
2,4-Dimethylphenol	ug/L	ND	100	100	74.9	77.8	75	78	21-103	4	30	
2,4-Dinitrophenol	ug/L	ND	500	500	354	318	71	64	10-109	11	30	
2,4-Dinitrotoluene	ug/L	ND	100	100	66.9	63.4	67	63	27-104	5	30	
2,6-Dinitrotoluene	ug/L	ND	100	100	67.3	67.6	67	68	28-101	0	30	
2-Chloronaphthalene	ug/L	ND	100	100	65.9	76.2	66	76	14-102	15	30	
2-Chlorophenol	ug/L	ND	100	100	71.0	71.9	71	72	16-110	1	30	
2-Methylnaphthalene	ug/L	ND	100	100	62.8	67.3	63	67	13-110	7	30	
2-Methylphenol(o-Cresol)	ug/L	ND	100	100	66.7	68.3	67	68	19-110	2	30	
2-Nitroaniline	ug/L	ND	200	200	146	146	73	73	26-103	0	30	
2-Nitrophenol	ug/L	ND	100	100	79.0	84.4	79	84	20-110	7	30	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	100	100	61.4	62.7	61	63	20-110	2	30	
3,3'-Dichlorobenzidine	ug/L	ND	200	200	183	175	90	86	25-112	4	30	
3-Nitroaniline	ug/L	ND	200	200	141	130	71	65	29-110	8	30	
4,6-Dinitro-2-methylphenol	ug/L	ND	200	200	168	162	84	81	10-117	4	30	
4-Bromophenylphenyl ether	ug/L	ND	100	100	96.7	104	97	104	20-105	7	30	
4-Chloro-3-methylphenol	ug/L	ND	200	200	156	147	78	73	22-110	6	30	
4-Chloroaniline	ug/L	ND	200	200	144	140	72	70	20-100	2	30	

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QUALITY CONTROL DATA

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 870733 870734

Parameter	Units	92138031001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4-Chlorophenylphenyl ether	ug/L	ND	100	100	82.5	83.1	82	83	19-102	1	30	
4-Nitroaniline	ug/L	ND	200	200	143	121	71	61	29-110	17	30	
4-Nitrophenol	ug/L	ND	500	500	191	185	38	37	10-110	3	30	
Acenaphthene	ug/L	ND	100	100	78.2	84.6	78	85	17-100	8	30	
Acenaphthylene	ug/L	ND	100	100	74.0	80.7	74	81	21-100	9	30	
Aniline	ug/L	ND	100	100	60.9	50.8	61	51	10-110	18	30	
Anthracene	ug/L	ND	100	100	90.9	91.0	91	91	24-109	0	30	
Benzo(a)anthracene	ug/L	ND	100	100	92.2	95.8	90	94	22-117	4	30	
Benzo(a)pyrene	ug/L	ND	100	100	95.7	99.5	93	97	23-104	4	30	
Benzo(b)fluoranthene	ug/L	ND	100	100	89.4	92.7	87	90	23-103	4	30	
Benzo(g,h,i)perylene	ug/L	ND	100	100	101	105	100	103	18-111	3	30	
Benzo(k)fluoranthene	ug/L	ND	100	100	89.4	91.5	88	90	22-113	2	30	
Benzoic Acid	ug/L	ND	500	500	122	207	24	41	10-110	51	30	R1
Benzyl alcohol	ug/L	ND	200	200	140	147	70	74	19-101	5	30	
bis(2-Chloroethoxy)methane	ug/L	ND	100	100	76.3	80.6	76	81	22-110	6	30	
bis(2-Chloroethyl) ether	ug/L	ND	100	100	80.0	79.1	80	79	16-110	1	30	
bis(2-Chloroisopropyl) ether	ug/L	ND	100	100	58.6	59.0	59	59	14-110	1	30	
bis(2-Ethylhexyl)phthalate	ug/L	ND	100	100	81.3	84.4	81	84	23-102	4	30	
Butylbenzylphthalate	ug/L	ND	100	100	81.4	80.7	81	81	25-110	1	30	
Chrysene	ug/L	ND	100	100	91.4	95.1	89	93	23-115	4	30	
Di-n-butylphthalate	ug/L	ND	100	100	80.0	78.8	80	79	26-110	2	30	
Di-n-octylphthalate	ug/L	ND	100	100	80.6	87.5	81	88	22-110	8	30	
Dibenz(a,h)anthracene	ug/L	ND	100	100	100	105	98	103	21-112	5	30	
Dibenzofuran	ug/L	ND	100	100	78.7	82.5	79	83	19-102	5	30	
Diethylphthalate	ug/L	ND	100	100	76.6	74.4	77	74	29-110	3	30	
Dimethylphthalate	ug/L	ND	100	100	76.8	77.5	77	77	27-110	1	30	
Fluoranthene	ug/L	ND	100	100	89.1	85.4	89	85	23-112	4	30	
Fluorene	ug/L	ND	100	100	79.6	80.4	80	80	22-104	1	30	
Hexachloro-1,3-butadiene	ug/L	ND	100	100	41.1	47.2	41	47	10-110	14	30	
Hexachlorobenzene	ug/L	ND	100	100	97.8	102	98	102	21-116	4	30	
Hexachlorocyclopentadiene	ug/L	ND	100	100	36.4	54.7	36	55	10-110	40	30	R1
Hexachloroethane	ug/L	ND	100	100	36.8	37.2	37	37	10-110	1	30	
Indeno(1,2,3-cd)pyrene	ug/L	ND	100	100	102	104	101	103	20-113	2	30	
Isophorone	ug/L	ND	100	100	62.5	64.0	62	64	50-150	2	30	
N-Nitroso-di-n-propylamine	ug/L	ND	100	100	74.5	72.0	75	72	21-105	3	30	
N-Nitrosodimethylamine	ug/L	ND	100	100	54.0	64.4	54	64	10-110	18	30	
N-Nitrosodiphenylamine	ug/L	ND	100	100	91.2	93.2	91	93	23-107	2	30	
Naphthalene	ug/L	ND	100	100	58.3	62.8	58	63	10-110	7	30	
Nitrobenzene	ug/L	ND	100	100	57.5	61.6	58	62	20-110	7	30	
Pentachlorophenol	ug/L	ND	200	200	150	138	75	69	10-118	8	30	
Phenanthrene	ug/L	ND	100	100	88.6	89.3	89	89	24-106	1	30	
Phenol	ug/L	ND	100	100	40.3	45.9	40	46	12-110	13	30	
Pyrene	ug/L	ND	100	100	93.5	92.0	93	92	24-114	2	30	
2,4,6-Tribromophenol (S)	%						92	92	27-110			
2-Fluorobiphenyl (S)	%						73	83	27-110			
2-Fluorophenol (S)	%						45	53	12-110			
Nitrobenzene-d5 (S)	%						71	76	21-110			

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QUALITY CONTROL DATA

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 870733 870734

Parameter	Units	92138031001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phenol-d6 (S)	%						35	41	10-110			
Terphenyl-d14 (S)	%						94	93	31-107			

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QUALIFIERS

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ECI Elon Facility B1116-421-1
Pace Project No.: 92138123

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92138123001	**ECIE-1112-MW7**	EPA 5030/8015 Mod.	GCV/6400		
92138123004	**ECIE-1112-ERB**	EPA 3010	MPRP/11954	EPA 6010	ICP/10933
92138123004	**ECIE-1112-ERB**	EPA 7470	MERP/4682	EPA 7470	MERC/4579
92138123001	**ECIE-1112-MW7**	EPA 3510	OEXT/19686	EPA 8270	MSSV/6984
92138123002	**ECIE-1112-MW8**	EPA 3510	OEXT/19686	EPA 8270	MSSV/6984
92138123003	**ECIE-1112-MW9**	EPA 3510	OEXT/19686	EPA 8270	MSSV/6984
92138123004	**ECIE-1112-ERB**	EPA 3510	OEXT/19686	EPA 8270	MSSV/6984
92138123001	**ECIE-1112-MW7**	EPA 8260	MSV/21066		
92138123002	**ECIE-1112-MW8**	EPA 8260	MSV/21066		
92138123003	**ECIE-1112-MW9**	EPA 8260	MSV/21066		
92138123004	**ECIE-1112-ERB**	EPA 8260	MSV/21066		
92138123005	**Trip Blank**	EPA 8260	MSV/21066		

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TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92138123001
Operator : KJM
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 13-NOV-2012 04:36

Client SDG: 92138123
Client Smp ID: ECIE-1112-MW7
Sample Date: 08-NOV-2012
Sample Point:
Date Received:09-NOV-2012 00:00
Level: LOW

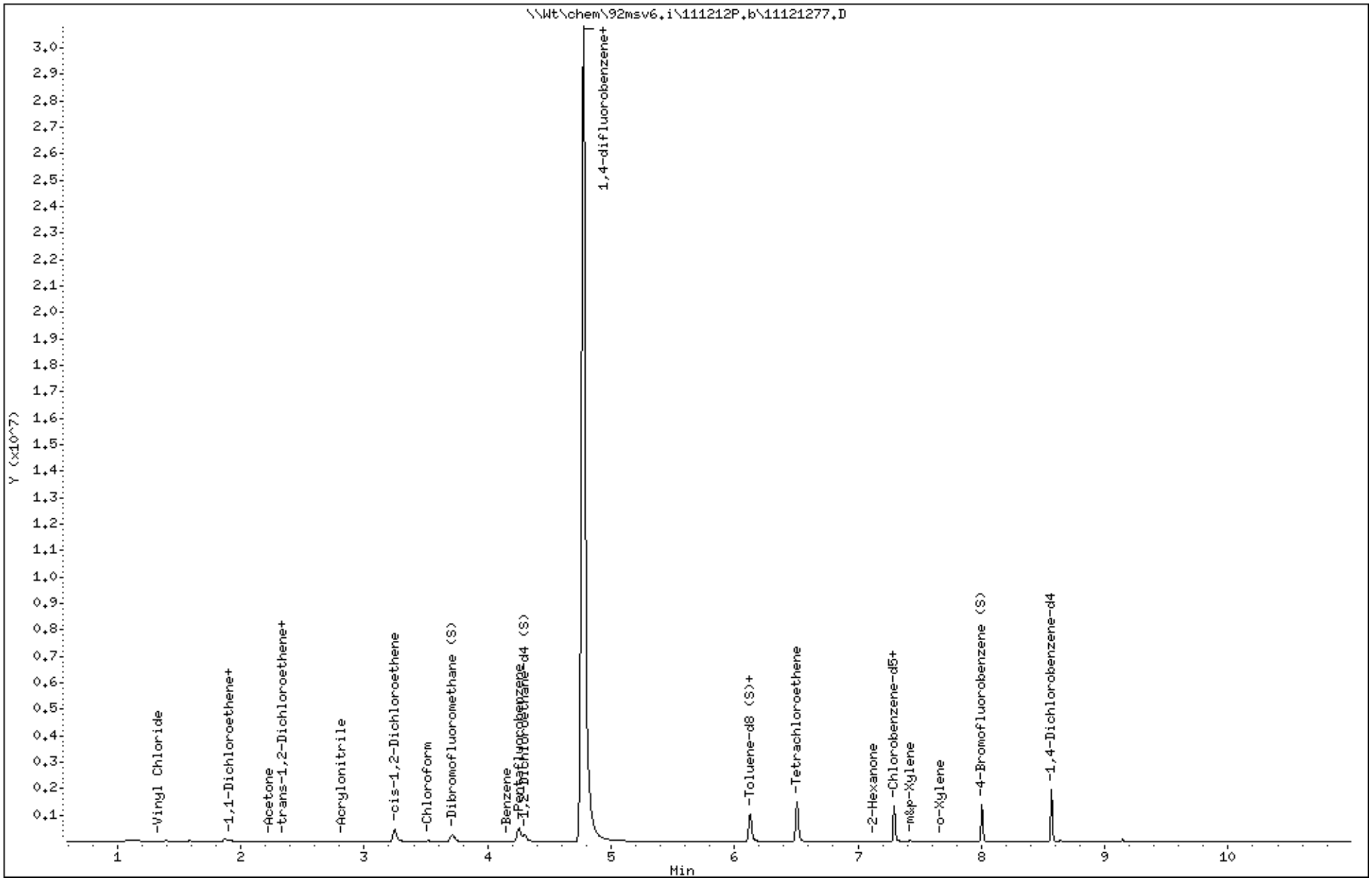
Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown Alkane	1.874	7.20	_J__

Data File: \\Wt\chem\92msv6.i\111212P.b\11121277.D
Date : 13-NOV-2012 04:36
Client ID: ECIE-1112-MW7
Sample Info: 111212P,8260WLL,KJM,1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 92msv6.i
Operator: KJM
Column diameter: 0.18



Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92138123002
Operator : KJM
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 13-NOV-2012 04:51

Client SDG: 92138123
Client Smp ID: ECIE-1112-MW8
Sample Date: 08-NOV-2012
Sample Point:
Date Received:09-NOV-2012 00:00
Level: LOW

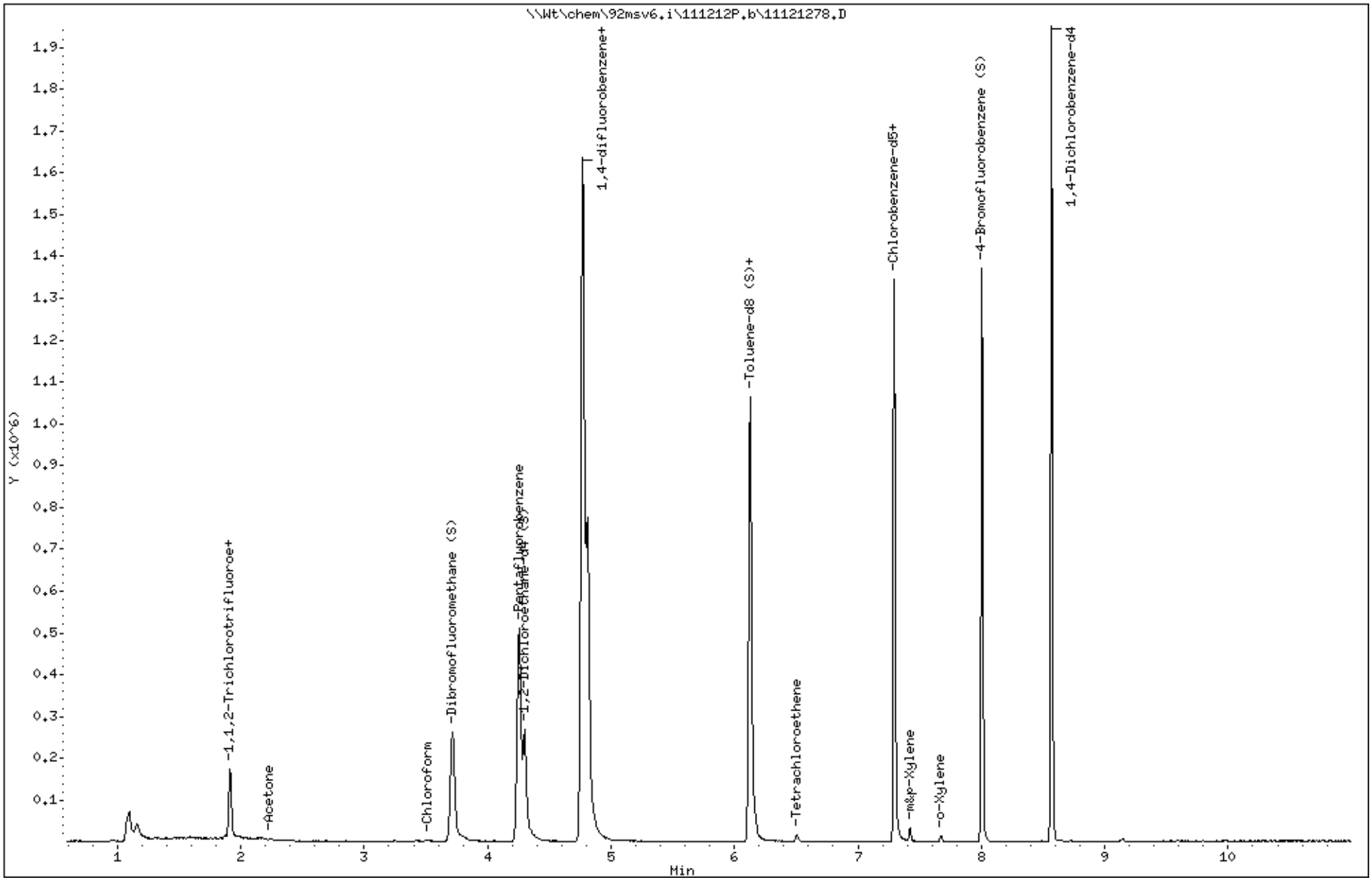
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\Wt\chem\92msv6.i\111212P.b\11121278.D
Date : 13-NOV-2012 04:51
Client ID: ECIE-1112-MW8
Sample Info: 111212P,8260WLL,KJM,1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 92msv6.i
Operator: KJM
Column diameter: 0.18



Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92138123003
Operator : KJM
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 13-NOV-2012 05:07

Client SDG: 92138123
Client Smp ID: ECIE-1112-MW9
Sample Date: 08-NOV-2012
Sample Point:
Date Received:09-NOV-2012 00:00
Level: LOW

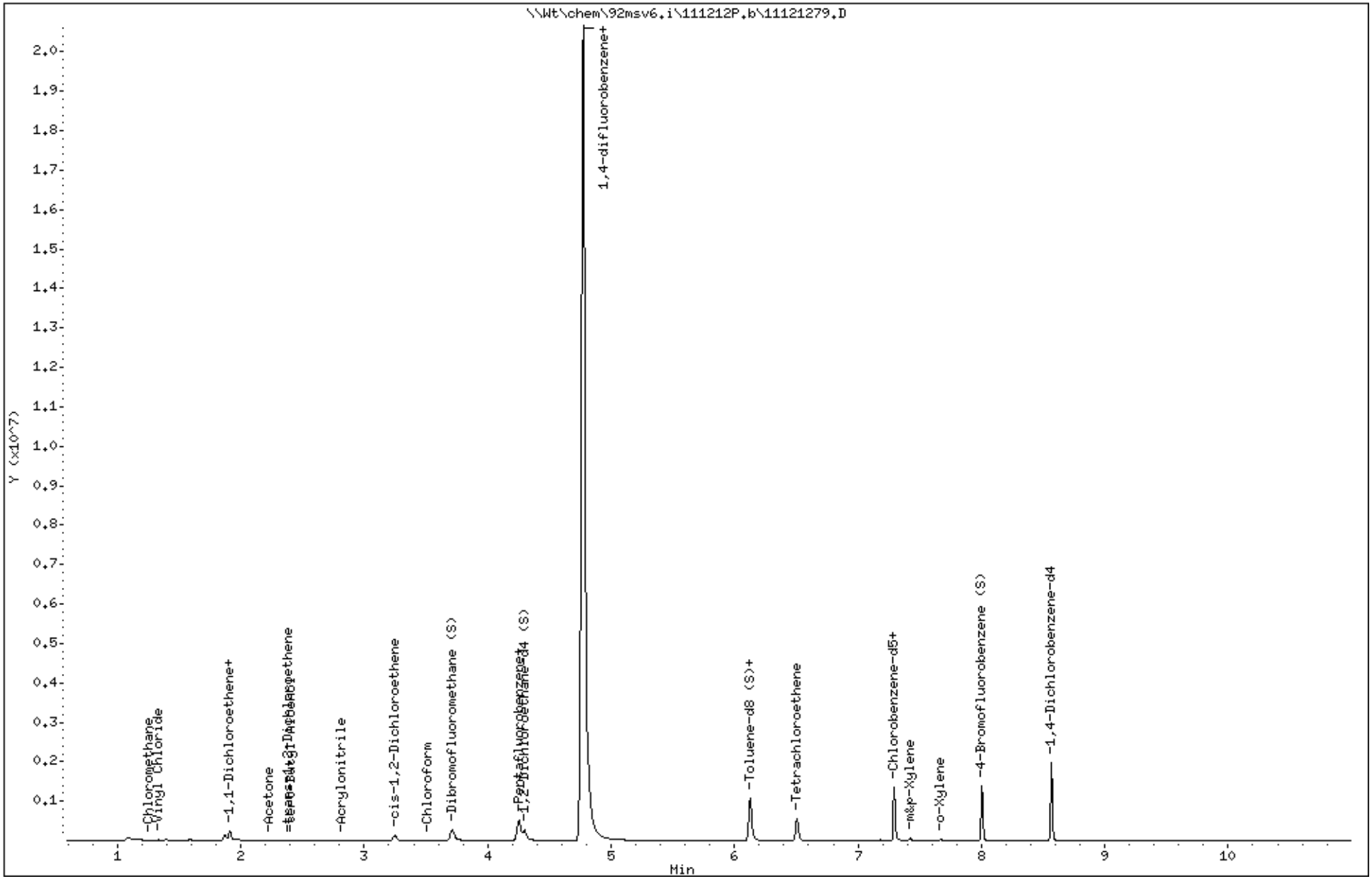
Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	1.874	8.25	_J__

Data File: \\Wt\chem\92msv6.i\111212P.b\11121279.D
Date : 13-NOV-2012 05:07
Client ID: ECIE-1112-MW9
Sample Info: 111212P,8260WLL,KJM,1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 92msv6.i
Operator: KJM
Column diameter: 0.18



Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92138123004
Operator : KJM
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 13-NOV-2012 01:26

Client SDG: 92138123
Client Smp ID: ECIE-1112-ERB
Sample Date: 08-NOV-2012
Sample Point:
Date Received:09-NOV-2012 00:00
Level: LOW

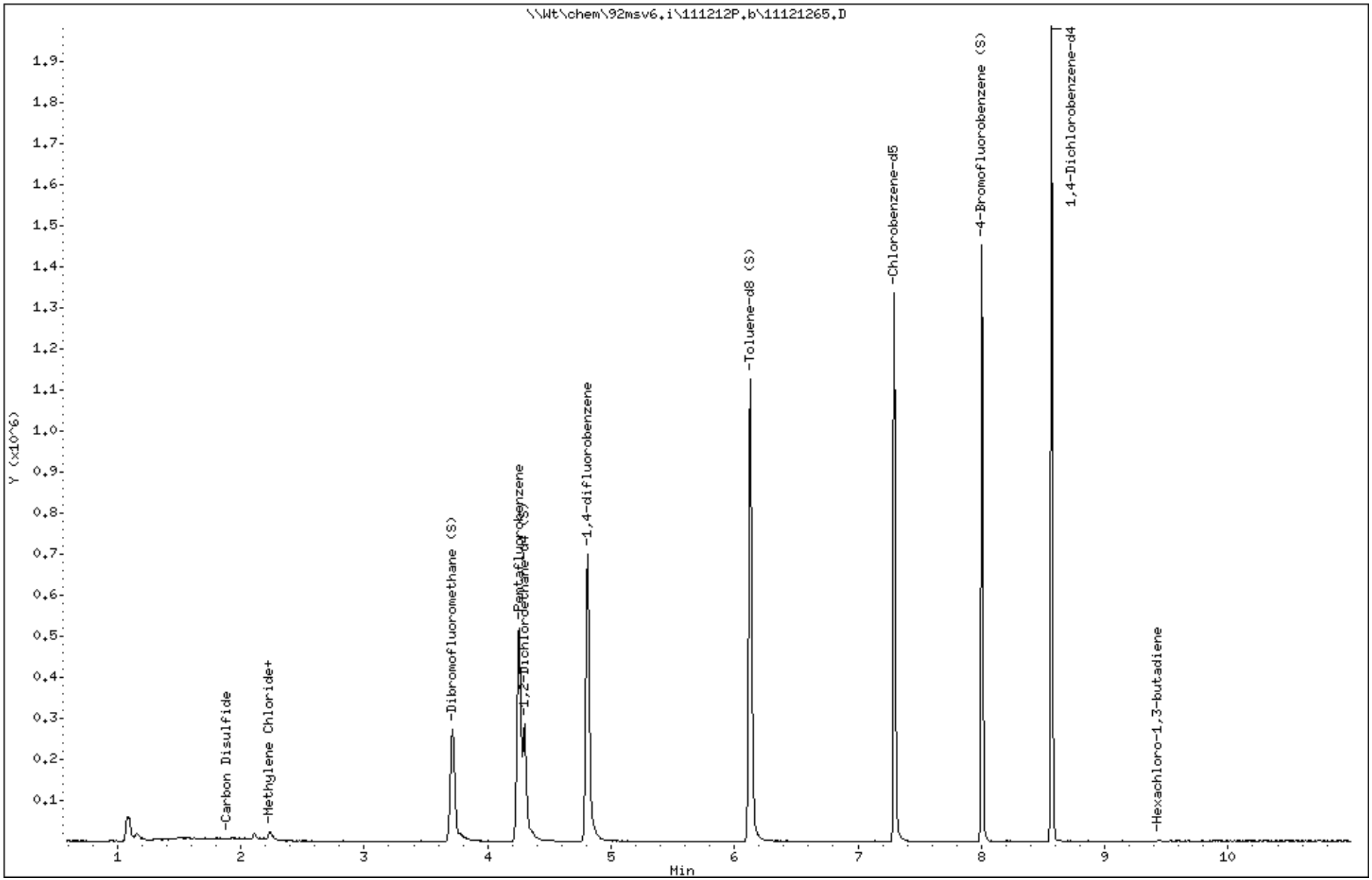
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\Wt\chem\92msv6.i\111212P.b\11121265.D
Date : 13-NOV-2012 01:26
Client ID: ECIE-1112-ERB
Sample Info: 111212P,8260WLL,KJM,1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 92msv6.i
Operator: KJM
Column diameter: 0.18



Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92138123005
Operator : KJM
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 13-NOV-2012 01:41

Client SDG: 92138123
Client Smp ID: Trip Blank
Sample Date: 08-NOV-2012
Sample Point:
Date Received:09-NOV-2012 00:00
Level: LOW

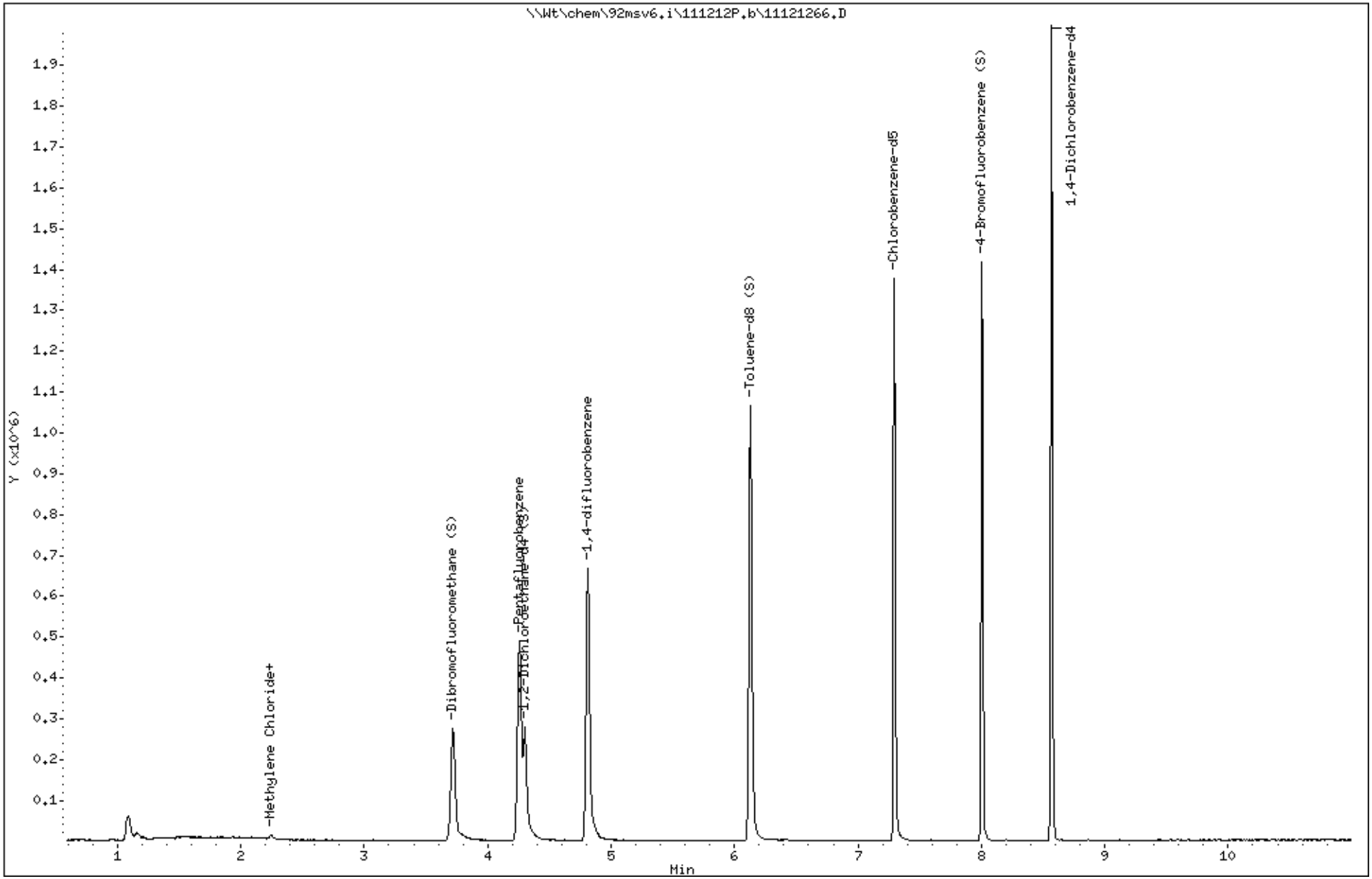
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\Wt\chem\92msv6.i\111212P.b\11121266.D
Date : 13-NOV-2012 01:41
Client ID: Trip Blank
Sample Info: 111212P,8260WLL,KJM,1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 92msv6.i
Operator: KJM
Column diameter: 0.18



Data File: \\Wt\chem\92mss5.i\111312.b\11131215.D
Report Date: 14-Nov-2012 09:55

12th

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TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92138123001
Operator : PPM
Sample Location:
Sample Matrix: WATER
Analysis Type: SV
Inj Date: 13-NOV-2012 21:13

Client SDG: 92138123
Client Smp ID: ECIE-1112-MW7
Sample Date: 08-NOV-2012
Sample Point:
Date Received:09-NOV-2012 00:00
Level: LOW

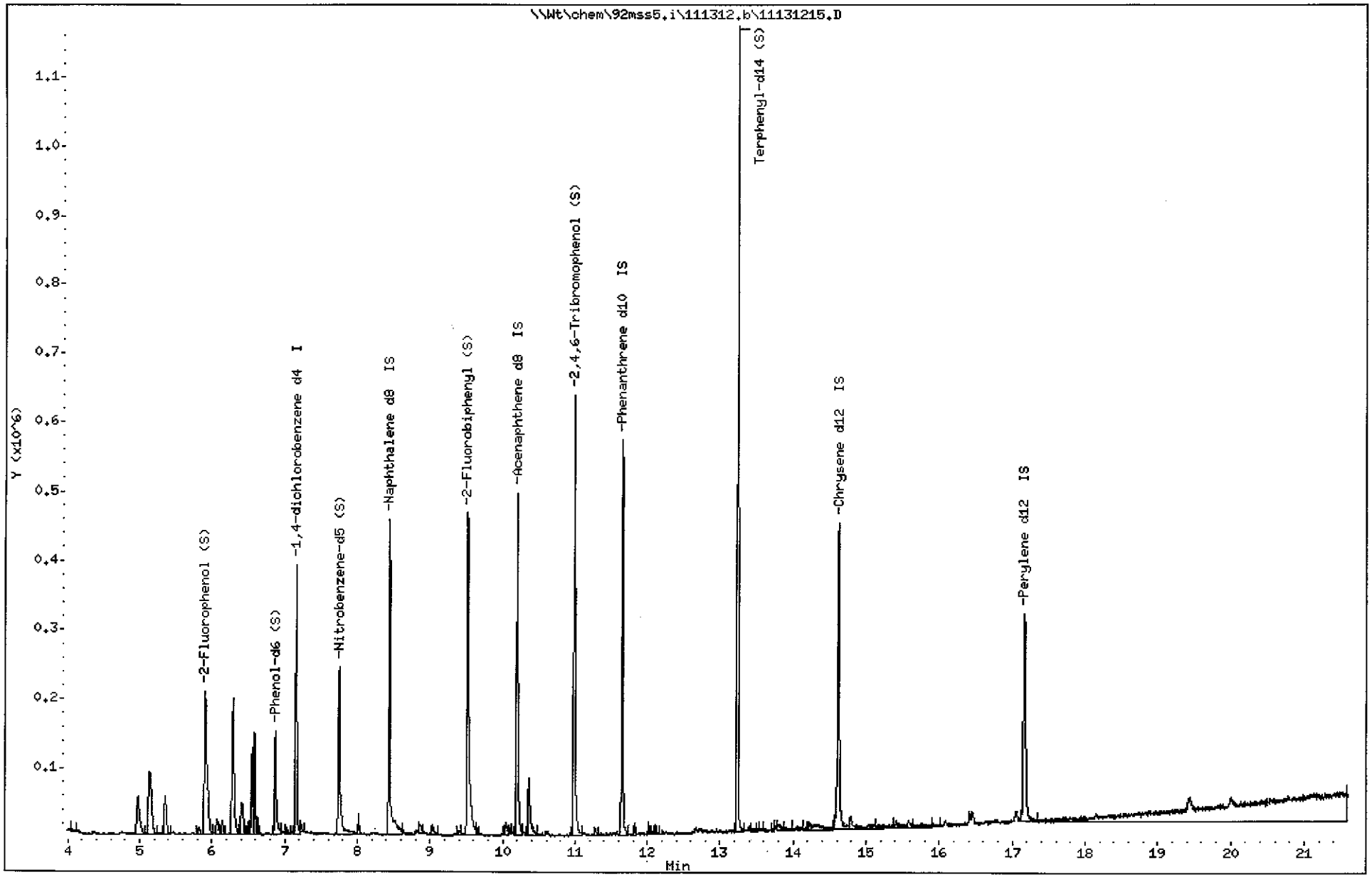
Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.975	6.36	J
2. 127-18-4	Tetrachloroethylene	5.143	11.4	NJ
3.	Unknown	6.293	15.8	J
4.	Unknown	6.554	6.81	J
5.	Unknown	6.585	8.34	J
6.	Unknown	21.573	145	J

Data File: \\Wt\chem\92mss5.i\111312.b\11131215.D
Date : 13-NOV-2012 21:13
Client ID: ECIE-1112-MW7
Sample Info: 111312,8270rega,PPM,1,,,
Volume Injected (uL): 1.0
Column phase: RXi-5Sil MS

Instrument: 92mss5.i
Operator: PPM
Column diameter: 0.18



Pace Analytical Services, Inc

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92138123002
Operator : PPM
Sample Location:
Sample Matrix: WATER
Analysis Type: SV
Inj Date: 13-NOV-2012 21:45

Client SDG: 92138123
Client Smp ID: ECIE-1112-MW8
Sample Date: 08-NOV-2012
Sample Point:
Date Received:09-NOV-2012 00:00
Level: LOW

Number TICs found: 4

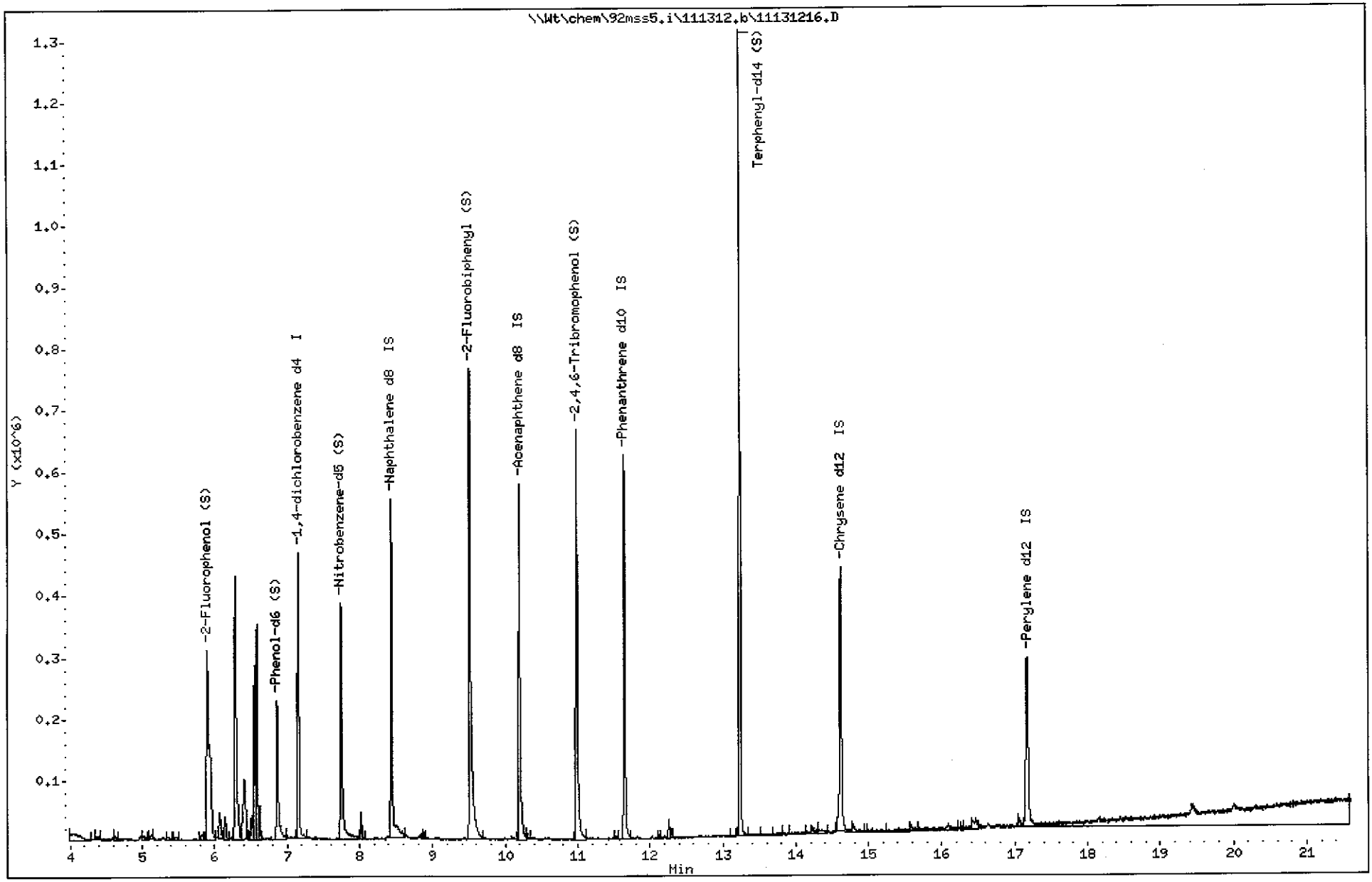
CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	6.293	24.6	J
2.	Unknown	6.411	8.86	J
3.	Unknown	6.554	12.1	J
4. 4291-79-6	Cyclohexane, 1-methyl-2-pro	6.588	15.3	NJ

Data File: \\Wt\chem\92mss5.i\111312.b\11131216.D
Date : 13-NOV-2012 21:45
Client ID: ECIE-1112-MW8
Sample Info: 111312,8270rega,PPM,1,,,
Volume Injected (uL): 1.0
Column phase: RXi-5Sil MS

Instrument: 92mss5.i

Operator: PPM
Column diameter: 0.18



Pace Analytical Services, Inc

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92138123003
Operator : PPM
Sample Location:
Sample Matrix: WATER
Analysis Type: SV
Inj Date: 13-NOV-2012 22:18

Client SDG: 92138123
Client Smp ID: ECIE-1112-MW9
Sample Date: 08-NOV-2012
Sample Point:
Date Received:09-NOV-2012 00:00
Level: LOW

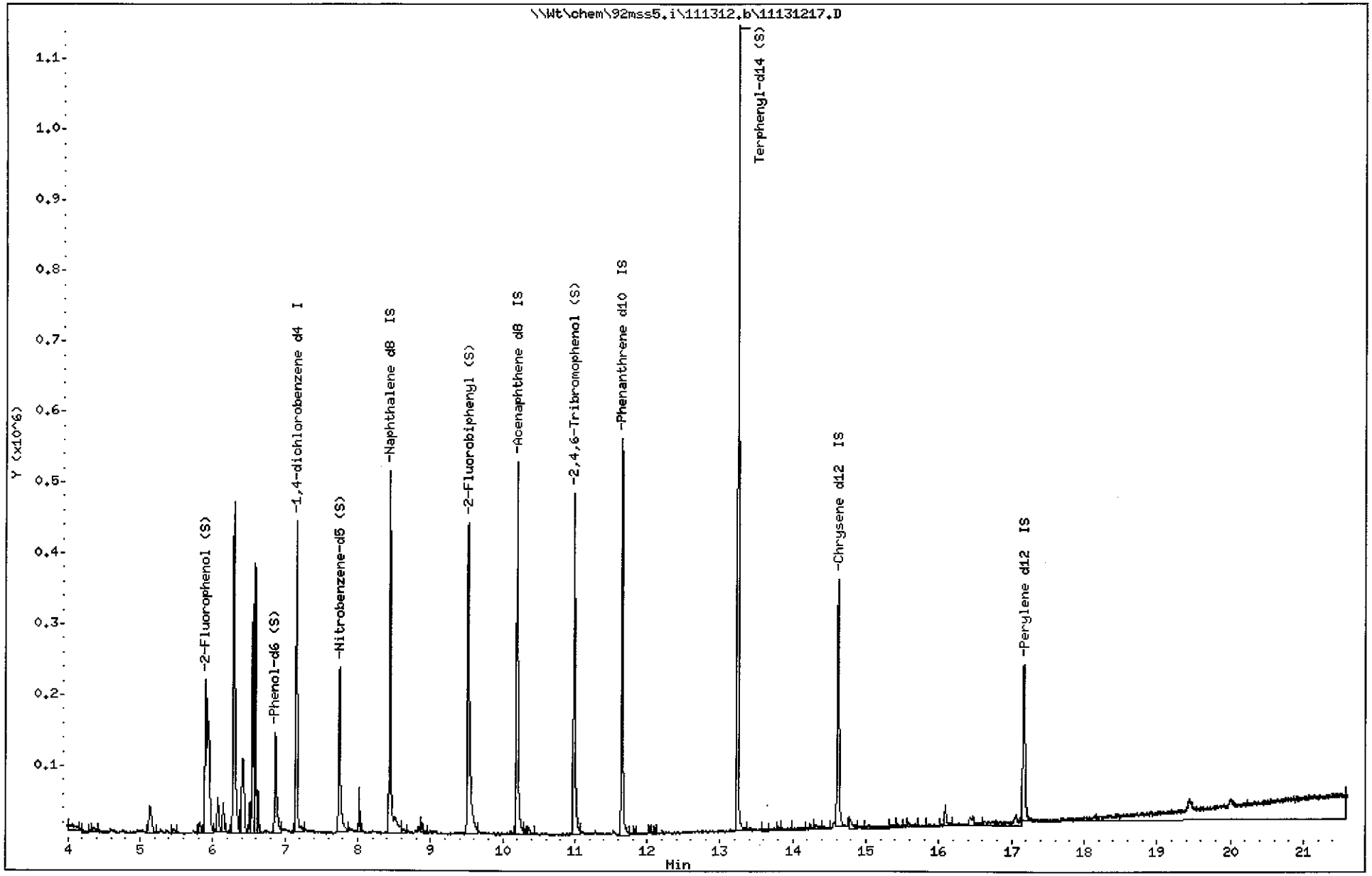
Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	6.293	27.8	J
2.	Unknown	6.408	9.32	J
3.	Unknown	6.551	13.8	J
4. 4291-79-6	Cyclohexane, 1-methyl-2-pro	6.585	17.2	NJ

Data File: \\Wt\chem\92mss5.i\111312.b\11131217.D
Date : 13-NOV-2012 22:18
Client ID: ECIE-1112-MW9
Sample Info: 111312,8270rega,PPM,1,,,
Volume Injected (uL): 1.0
Column phase: RXi-5Sil MS

Instrument: 92mss5.i
Operator: PPM
Column diameter: 0.18



Pace Analytical Services, Inc

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92138123004
Operator : PPM
Sample Location:
Sample Matrix: WATER
Analysis Type: SV
Inj Date: 13-NOV-2012 22:50

Client SDG: 92138123
Client Smp ID: ECIE-1112-ERB
Sample Date: 08-NOV-2012
Sample Point:
Date Received:09-NOV-2012 00:00
Level: LOW

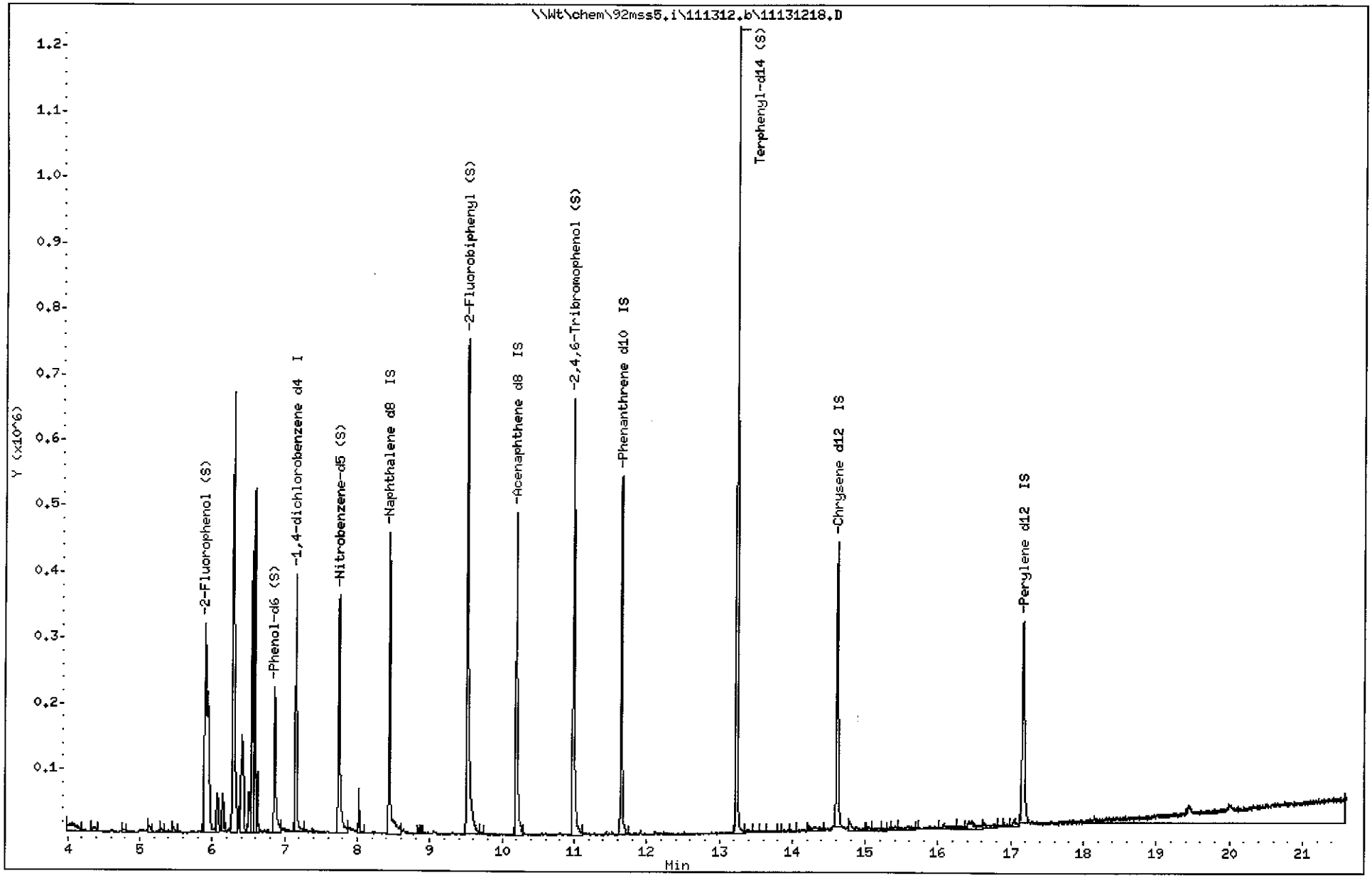
Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	6.293	44.8	J
2.	Unknown	6.411	14.3	J
3.	Unknown	6.554	21.8	J
4. 4291-79-6	Cyclohexane, 1-methyl-2-pro	6.588	27.6	NJ

Data File: \\Wt\chem\92mss5.i\111312.b\11131218.D
Date : 13-NOV-2012 22:50
Client ID: ECIE-1112-ERB
Sample Info: 111312,8270rega,PPM,1,,,
Volume Injected (uL): 1.0
Column phase: RXi-5Sil MS

Instrument: 92mss5.i
Operator: PPM
Column diameter: 0.18



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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1655503

Section A Required Client Information:

Company: GAIATECH
Address: 3525 PIEDMONT RD NE
BLDG. 6, SUITE 520
Email To: MIKE WILSON + WILL LUCAS
Phone: (404) 812- Fax: 0001
Requested Due Date/TAT:

Section B Required Project Information:

Report To: MIKE WILSON MWILSON@GAIATECH.COM
Copy To: WILL LUCAS WLUCAS@GAIATECH.COM
Purchase Order No.: B1116-421-1
Project Name: ECI ELON FACILITY
Project Number: B1116-421-1

Section C Invoice Information:

Attention: MIKE WILSON
Company Name: GAIATECH
Address: SAME AS REPORT ADDRESS
Pace Quote Reference:
Pace Project Manager: ALLISON CANTRELL
Pace Profile #: 5513-2

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Requested Analysis Filtered (Y/N)

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	COMPOSITE START DATE	COMPOSITE START TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N) VOCs + TICs	SVOCs + TICs	TPH-GRO	HSL MGTNS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	ECIE-1112-MW7	WT	G	11/8/12	1200				8	2			6					X	X	X			001
2	ECIE-1112-MW8	WT	G	11/8/12	1500				5	2			3					X	X				002
3	ECIE-1112-MW9	WT	G	11/8/12	1800				5	2			3					X	X				003
4																							
5	ECIE-1112-ERB	WT	G	11/8/12	1830				6	2		1	3					X	X		X		004
6	TRIP BLANK	WT		NA	NA				2	1			1					X					005
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	GAIATECH	11/9/12	10:50	Pace	11/9/12	10:54				
	Pace	11-9-12	13:40	Pace	11-9-12	13:40	5.9	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: October 31, 2012 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.08**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Gaia Tech Project # 92138123

Where Received: ☒ Huntersville ☐ Asheville ☐ Eden ☐ Raleigh

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1101 T1102 **Type of Ice:** Wet Blue None ☒ Samples on ice, cooling process has begun

Temp Correction Factor **T1101**: No Correction **T1102**: No Correction

Corrected Cooler Temp.: 5.9 C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: DLW 11-9-12

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☒No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix:_____	☒Yes ☐No ☐N/A	12. NO Times on Bottles
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☒Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	15.
Trip Blank Present:	☒Yes ☐No ☐N/A	16. #6 Trip Blank has no time, no Date
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: GW **Date:** 11/9/12 **SRF Review:** [illegible] **Date:** 11/12/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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March 06, 2013

Michael Wilson
Gaia Tech
3525 Piedmont Rd NE
Bldg 6, Suite 520
Atlanta, GA 30326

RE: Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Dear Michael Wilson:
Enclosed are the analytical results for sample(s) received by the laboratory on February 21, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92148941001	**ECIE-0213-MW14**	Water	02/18/13 13:45	02/21/13 15:55
92148941002	**ECIE-0213-MW15**	Water	02/18/13 14:50	02/21/13 15:55
92148941003	**ECIE-0213-MW16**	Water	02/18/13 16:00	02/21/13 15:55
92148941004	**ECIE-0213-DW2**	Water	02/20/13 15:30	02/21/13 15:55
92148941005	**ECIE-0213-DW2 (DUP)**	Water	02/20/13 15:35	02/21/13 15:55
92148941006	**ECIE-0213-ERB**	Water	02/20/13 15:45	02/21/13 15:55
92148941007	**TRIP BLANK**	Water	02/20/13 00:00	02/21/13 15:55
92148941008	**ECIE-0213-IDW1**	Other	02/20/13 16:00	02/21/13 15:55

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SAMPLE ANALYTE COUNT

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92148941001	**ECIE-0213-MW14**	EPA 8260	CAH	64	PASI-C
92148941002	**ECIE-0213-MW15**	EPA 8260	CAH	64	PASI-C
92148941003	**ECIE-0213-MW16**	EPA 8260	CAH	64	PASI-C
92148941004	**ECIE-0213-DW2**	EPA 6010	JMW	13	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	CAH	64	PASI-C
92148941005	**ECIE-0213-DW2 (DUP)**	EPA 6010	JMW	13	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	CAH	64	PASI-C
92148941006	**ECIE-0213-ERB**	EPA 8260	CAH	64	PASI-C
92148941007	**TRIP BLANK**	EPA 8260	CAH	64	PASI-C
92148941008	**ECIE-0213-IDW1**	EPA 6010	JMW	7	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8270	RES	18	PASI-C
		EPA 8260	DLK	15	PASI-C

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HITS ONLY

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92148941003	**ECIE-0213-MW16**					
EPA 8260	Ethylbenzene	1.3	ug/L	1.0	02/23/13 22:53	
EPA 8260	Toluene	6.5	ug/L	1.0	02/23/13 22:53	
EPA 8260	Xylene (Total)	10	ug/L	2.0	02/23/13 22:53	
EPA 8260	m&p-Xylene	7.0	ug/L	2.0	02/23/13 22:53	
EPA 8260	o-Xylene	3.0	ug/L	1.0	02/23/13 22:53	
92148941004	**ECIE-0213-DW2**					
EPA 6010	Chromium	23.6	ug/L	5.0	02/24/13 13:08	
EPA 6010	Zinc	24.2	ug/L	10.0	02/24/13 13:08	
EPA 8260	Toluene	1.9	ug/L	1.0	02/23/13 23:12	
EPA 8260	Trichloroethene	22.2	ug/L	1.0	02/23/13 23:12	
EPA 8260	Xylene (Total)	2.4	ug/L	2.0	02/23/13 23:12	
92148941005	**ECIE-0213-DW2 (DUP)**					
EPA 6010	Chromium	23.8	ug/L	5.0	02/24/13 13:11	
EPA 8260	Toluene	1.8	ug/L	1.0	02/23/13 23:30	
EPA 8260	Trichloroethene	21.2	ug/L	1.0	02/23/13 23:30	
EPA 8260	Xylene (Total)	2.2	ug/L	2.0	02/23/13 23:30	
92148941008	**ECIE-0213-IDW1**					
EPA 6010	Barium	1.7	mg/L	0.25	03/01/13 15:24	

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PROJECT NARRATIVE

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Method: **EPA 6010**
Description: 6010 MET ICP, TCLP
Client: Gaia Tech
Date: March 06, 2013

General Information:
1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Gaia Tech
Date: March 06, 2013

General Information:
2 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Method: **EPA 7470**
Description: 7470 Mercury, TCLP
Client: Gaia Tech
Date: March 06, 2013

General Information:
1 sample was analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Method: **EPA 7470**
Description: 7470 Mercury
Client: Gaia Tech
Date: March 06, 2013

General Information:
2 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Method: **EPA 8270**
Description: 8270 MSSV TCLP Sep Funnel
Client: Gaia Tech
Date: March 06, 2013

General Information:
1 sample was analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Method: **EPA 8260**
Description: 8260 MSV TCLP
Client: Gaia Tech
Date: March 06, 2013

General Information:
1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MSV/22163

1g: 8260 results are from a total analysis which show that analytes are not present or that they are present but at such low levels that the appropriate regulatory levels could not possibly be exceeded, per Section 1.2 of Method 1311.

- ECIE-0213-IDW1 (Lab ID: 92148941008)
  - 1,2-Dichloroethane-d4 (S)

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PROJECT NARRATIVE

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: Gaia Tech
Date: March 06, 2013

General Information:
7 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/22130

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 927741)
  - 1,2,3-Trichlorobenzene

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Sample: ECIE-0213-MW14 **Lab ID: 92148941001** Collected: 02/18/13 13:45 Received: 02/21/13 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		02/23/13 22:17	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 22:17	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		02/23/13 22:17	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		02/23/13 22:17	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 22:17	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		02/23/13 22:17	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		02/23/13 22:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		02/23/13 22:17	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 22:17	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		02/23/13 22:17	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		02/23/13 22:17	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		02/23/13 22:17	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 22:17	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		02/23/13 22:17	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		02/23/13 22:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		02/23/13 22:17	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		02/23/13 22:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 22:17	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		02/23/13 22:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		02/23/13 22:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		02/23/13 22:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 22:17	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		02/23/13 22:17	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		02/23/13 22:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 22:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		02/23/13 22:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		02/23/13 22:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		02/23/13 22:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 22:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 22:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		02/23/13 22:17	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		02/23/13 22:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 22:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 22:17	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/23/13 22:17	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 22:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		02/23/13 22:17	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		02/23/13 22:17	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		02/23/13 22:17	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		02/23/13 22:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		02/23/13 22:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		02/23/13 22:17	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		02/23/13 22:17	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 22:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		02/23/13 22:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		02/23/13 22:17	79-34-5	

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ANALYTICAL RESULTS

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Sample: ECIE-0213-MW14 **Lab ID: 92148941001** Collected: 02/18/13 13:45 Received: 02/21/13 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 22:17	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 22:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 22:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		02/23/13 22:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 22:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 22:17	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 22:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 22:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 22:17	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		02/23/13 22:17	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 22:17	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		02/23/13 22:17	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		02/23/13 22:17	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		02/23/13 22:17	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		02/23/13 22:17	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		02/23/13 22:17	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		02/23/13 22:17	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		02/23/13 22:17	2037-26-5	

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ANALYTICAL RESULTS

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Sample: ECIE-0213-MW15 **Lab ID: 92148941002** Collected: 02/18/13 14:50 Received: 02/21/13 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		02/23/13 22:35	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 22:35	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		02/23/13 22:35	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		02/23/13 22:35	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 22:35	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		02/23/13 22:35	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		02/23/13 22:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		02/23/13 22:35	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 22:35	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		02/23/13 22:35	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		02/23/13 22:35	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		02/23/13 22:35	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 22:35	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		02/23/13 22:35	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		02/23/13 22:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		02/23/13 22:35	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		02/23/13 22:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 22:35	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		02/23/13 22:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		02/23/13 22:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		02/23/13 22:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 22:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		02/23/13 22:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		02/23/13 22:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 22:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		02/23/13 22:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		02/23/13 22:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		02/23/13 22:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 22:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 22:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		02/23/13 22:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		02/23/13 22:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 22:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 22:35	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/23/13 22:35	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 22:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		02/23/13 22:35	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		02/23/13 22:35	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		02/23/13 22:35	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		02/23/13 22:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		02/23/13 22:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		02/23/13 22:35	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		02/23/13 22:35	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 22:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		02/23/13 22:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		02/23/13 22:35	79-34-5	

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ANALYTICAL RESULTS

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Sample: ECIE-0213-MW15 **Lab ID: 92148941002** Collected: 02/18/13 14:50 Received: 02/21/13 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 22:35	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 22:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 22:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		02/23/13 22:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 22:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 22:35	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 22:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 22:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 22:35	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		02/23/13 22:35	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 22:35	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		02/23/13 22:35	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		02/23/13 22:35	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		02/23/13 22:35	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		02/23/13 22:35	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		02/23/13 22:35	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		02/23/13 22:35	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		02/23/13 22:35	2037-26-5	

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ANALYTICAL RESULTS

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Sample: ECIE-0213-MW16 **Lab ID: 92148941003** Collected: 02/18/13 16:00 Received: 02/21/13 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		02/23/13 22:53	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 22:53	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		02/23/13 22:53	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		02/23/13 22:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 22:53	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		02/23/13 22:53	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		02/23/13 22:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		02/23/13 22:53	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 22:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		02/23/13 22:53	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		02/23/13 22:53	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		02/23/13 22:53	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 22:53	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		02/23/13 22:53	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		02/23/13 22:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		02/23/13 22:53	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		02/23/13 22:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 22:53	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		02/23/13 22:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		02/23/13 22:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		02/23/13 22:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 22:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		02/23/13 22:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		02/23/13 22:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 22:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		02/23/13 22:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		02/23/13 22:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		02/23/13 22:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 22:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 22:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		02/23/13 22:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		02/23/13 22:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 22:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 22:53	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/23/13 22:53	108-20-3	
Ethylbenzene	**1.3**	ug/L	1.0	0.30	1		02/23/13 22:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		02/23/13 22:53	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		02/23/13 22:53	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		02/23/13 22:53	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		02/23/13 22:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		02/23/13 22:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		02/23/13 22:53	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		02/23/13 22:53	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 22:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		02/23/13 22:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		02/23/13 22:53	79-34-5	

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ANALYTICAL RESULTS

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Sample: ECIE-0213-MW16 **Lab ID: 92148941003** Collected: 02/18/13 16:00 Received: 02/21/13 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 22:53	127-18-4	
Toluene	**6.5**	ug/L	1.0	0.26	1		02/23/13 22:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 22:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		02/23/13 22:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 22:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 22:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 22:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 22:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 22:53	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		02/23/13 22:53	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 22:53	75-01-4	
Xylene (Total)	**10**	ug/L	2.0	0.66	1		02/23/13 22:53	1330-20-7	
m&p-Xylene	**7.0**	ug/L	2.0	0.66	1		02/23/13 22:53	179601-23-1	
o-Xylene	**3.0**	ug/L	1.0	0.23	1		02/23/13 22:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		02/23/13 22:53	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		02/23/13 22:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		02/23/13 22:53	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		02/23/13 22:53	2037-26-5	

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ANALYTICAL RESULTS

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Sample: ECIE-0213-DW2 **Lab ID: 92148941004** Collected: 02/20/13 15:30 Received: 02/21/13 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	02/23/13 00:35	02/24/13 13:08	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	02/23/13 00:35	02/24/13 13:08	7440-38-2	
Beryllium	ND	ug/L	1.0	0.50	1	02/23/13 00:35	02/24/13 13:08	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	02/23/13 00:35	02/24/13 13:08	7440-43-9	
Chromium	**23.6**	ug/L	5.0	2.0	1	02/23/13 00:35	02/24/13 13:08	7440-47-3	
Copper	ND	ug/L	5.0	2.0	1	02/23/13 00:35	02/24/13 13:08	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	02/23/13 00:35	02/24/13 13:08	7439-92-1	
Manganese	ND	ug/L	5.0	2.5	1	02/23/13 00:35	02/24/13 13:08	7439-96-5	
Nickel	ND	ug/L	5.0	2.5	1	02/23/13 00:35	02/24/13 13:08	7440-02-0	
Selenium	ND	ug/L	10.0	5.0	1	02/23/13 00:35	02/24/13 13:08	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	02/23/13 00:35	02/24/13 13:08	7440-22-4	
Thallium	ND	ug/L	10.0	5.0	1	02/23/13 00:35	02/24/13 13:08	7440-28-0	
Zinc	**24.2**	ug/L	10.0	5.0	1	02/23/13 00:35	02/24/13 13:08	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	02/25/13 17:45	02/28/13 14:43	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		02/23/13 23:12	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 23:12	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		02/23/13 23:12	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		02/23/13 23:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 23:12	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		02/23/13 23:12	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		02/23/13 23:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		02/23/13 23:12	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 23:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		02/23/13 23:12	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		02/23/13 23:12	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		02/23/13 23:12	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 23:12	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		02/23/13 23:12	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		02/23/13 23:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		02/23/13 23:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		02/23/13 23:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 23:12	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		02/23/13 23:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		02/23/13 23:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		02/23/13 23:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 23:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		02/23/13 23:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		02/23/13 23:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 23:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		02/23/13 23:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		02/23/13 23:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		02/23/13 23:12	156-60-5	

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ANALYTICAL RESULTS

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Sample: ECIE-0213-DW2 **Lab ID: 92148941004** Collected: 02/20/13 15:30 Received: 02/21/13 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 23:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 23:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		02/23/13 23:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		02/23/13 23:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 23:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 23:12	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/23/13 23:12	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 23:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		02/23/13 23:12	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		02/23/13 23:12	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		02/23/13 23:12	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		02/23/13 23:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		02/23/13 23:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		02/23/13 23:12	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		02/23/13 23:12	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 23:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		02/23/13 23:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		02/23/13 23:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 23:12	127-18-4	
Toluene	**1.9**	ug/L	1.0	0.26	1		02/23/13 23:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 23:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		02/23/13 23:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 23:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 23:12	79-00-5	
Trichloroethene	**22.2**	ug/L	1.0	0.47	1		02/23/13 23:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 23:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 23:12	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		02/23/13 23:12	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 23:12	75-01-4	
Xylene (Total)	**2.4**	ug/L	2.0	0.66	1		02/23/13 23:12	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		02/23/13 23:12	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		02/23/13 23:12	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		02/23/13 23:12	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		02/23/13 23:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		02/23/13 23:12	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		02/23/13 23:12	2037-26-5	

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ANALYTICAL RESULTS

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Sample: ECIE-0213-DW2 (DUP) **Lab ID: 92148941005** Collected: 02/20/13 15:35 Received: 02/21/13 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	02/23/13 00:35	02/24/13 13:11	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	02/23/13 00:35	02/24/13 13:11	7440-38-2	
Beryllium	ND	ug/L	1.0	0.50	1	02/23/13 00:35	02/24/13 13:11	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	02/23/13 00:35	02/24/13 13:11	7440-43-9	
Chromium	**23.8**	ug/L	5.0	2.0	1	02/23/13 00:35	02/24/13 13:11	7440-47-3	
Copper	ND	ug/L	5.0	2.0	1	02/23/13 00:35	02/24/13 13:11	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	02/23/13 00:35	02/24/13 13:11	7439-92-1	
Manganese	ND	ug/L	5.0	2.5	1	02/23/13 00:35	02/24/13 13:11	7439-96-5	
Nickel	ND	ug/L	5.0	2.5	1	02/23/13 00:35	02/24/13 13:11	7440-02-0	
Selenium	ND	ug/L	10.0	5.0	1	02/23/13 00:35	02/24/13 13:11	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	02/23/13 00:35	02/24/13 13:11	7440-22-4	
Thallium	ND	ug/L	10.0	5.0	1	02/23/13 00:35	02/24/13 13:11	7440-28-0	
Zinc	ND	ug/L	10.0	5.0	1	02/23/13 00:35	02/24/13 13:11	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	02/25/13 17:45	02/28/13 14:59	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		02/23/13 23:30	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 23:30	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		02/23/13 23:30	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		02/23/13 23:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 23:30	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		02/23/13 23:30	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		02/23/13 23:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		02/23/13 23:30	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 23:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		02/23/13 23:30	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		02/23/13 23:30	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		02/23/13 23:30	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 23:30	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		02/23/13 23:30	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		02/23/13 23:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		02/23/13 23:30	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		02/23/13 23:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 23:30	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		02/23/13 23:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		02/23/13 23:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		02/23/13 23:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 23:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		02/23/13 23:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		02/23/13 23:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 23:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		02/23/13 23:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		02/23/13 23:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		02/23/13 23:30	156-60-5	

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ANALYTICAL RESULTS

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Sample: ECIE-0213-DW2 (DUP) **Lab ID: 92148941005** Collected: 02/20/13 15:35 Received: 02/21/13 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 23:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 23:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		02/23/13 23:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		02/23/13 23:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 23:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 23:30	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/23/13 23:30	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 23:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		02/23/13 23:30	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		02/23/13 23:30	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		02/23/13 23:30	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		02/23/13 23:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		02/23/13 23:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		02/23/13 23:30	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		02/23/13 23:30	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 23:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		02/23/13 23:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		02/23/13 23:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 23:30	127-18-4	
Toluene	**1.8**	ug/L	1.0	0.26	1		02/23/13 23:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 23:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		02/23/13 23:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 23:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 23:30	79-00-5	
Trichloroethene	**21.2**	ug/L	1.0	0.47	1		02/23/13 23:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 23:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 23:30	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		02/23/13 23:30	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 23:30	75-01-4	
Xylene (Total)	**2.2**	ug/L	2.0	0.66	1		02/23/13 23:30	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		02/23/13 23:30	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		02/23/13 23:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		02/23/13 23:30	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		02/23/13 23:30	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		02/23/13 23:30	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/23/13 23:30	2037-26-5	

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ANALYTICAL RESULTS

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Sample: ECIE-0213-ERB **Lab ID: 92148941006** Collected: 02/20/13 15:45 Received: 02/21/13 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		02/23/13 23:49	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 23:49	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		02/23/13 23:49	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		02/23/13 23:49	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 23:49	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		02/23/13 23:49	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		02/23/13 23:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		02/23/13 23:49	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 23:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		02/23/13 23:49	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		02/23/13 23:49	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		02/23/13 23:49	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 23:49	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		02/23/13 23:49	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		02/23/13 23:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		02/23/13 23:49	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		02/23/13 23:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 23:49	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		02/23/13 23:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		02/23/13 23:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		02/23/13 23:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 23:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		02/23/13 23:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		02/23/13 23:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 23:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		02/23/13 23:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		02/23/13 23:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		02/23/13 23:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 23:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 23:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		02/23/13 23:49	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		02/23/13 23:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 23:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 23:49	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/23/13 23:49	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 23:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		02/23/13 23:49	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		02/23/13 23:49	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		02/23/13 23:49	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		02/23/13 23:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		02/23/13 23:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		02/23/13 23:49	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		02/23/13 23:49	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 23:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		02/23/13 23:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		02/23/13 23:49	79-34-5	

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ANALYTICAL RESULTS

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Sample: ECIE-0213-ERB **Lab ID: 92148941006** Collected: 02/20/13 15:45 Received: 02/21/13 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 23:49	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 23:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 23:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		02/23/13 23:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 23:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 23:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 23:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 23:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 23:49	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		02/23/13 23:49	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 23:49	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		02/23/13 23:49	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		02/23/13 23:49	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		02/23/13 23:49	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		02/23/13 23:49	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		02/23/13 23:49	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		02/23/13 23:49	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		02/23/13 23:49	2037-26-5	

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ANALYTICAL RESULTS

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Sample: TRIP BLANK **Lab ID: 92148941007** Collected: 02/20/13 00:00 Received: 02/21/13 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		02/23/13 18:18	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		02/23/13 18:18	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		02/23/13 18:18	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		02/23/13 18:18	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/23/13 18:18	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		02/23/13 18:18	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		02/23/13 18:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		02/23/13 18:18	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/23/13 18:18	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		02/23/13 18:18	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		02/23/13 18:18	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		02/23/13 18:18	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/23/13 18:18	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		02/23/13 18:18	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		02/23/13 18:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		02/23/13 18:18	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		02/23/13 18:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/23/13 18:18	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		02/23/13 18:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		02/23/13 18:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		02/23/13 18:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 18:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		02/23/13 18:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		02/23/13 18:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/23/13 18:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		02/23/13 18:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		02/23/13 18:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		02/23/13 18:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/23/13 18:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/23/13 18:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		02/23/13 18:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		02/23/13 18:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/23/13 18:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/23/13 18:18	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/23/13 18:18	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/23/13 18:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		02/23/13 18:18	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		02/23/13 18:18	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		02/23/13 18:18	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		02/23/13 18:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		02/23/13 18:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		02/23/13 18:18	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		02/23/13 18:18	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		02/23/13 18:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		02/23/13 18:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		02/23/13 18:18	79-34-5	

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ANALYTICAL RESULTS

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Sample: TRIP BLANK **Lab ID: 92148941007** Collected: 02/20/13 00:00 Received: 02/21/13 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/23/13 18:18	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/23/13 18:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		02/23/13 18:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		02/23/13 18:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/23/13 18:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/23/13 18:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/23/13 18:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/23/13 18:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/23/13 18:18	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		02/23/13 18:18	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/23/13 18:18	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		02/23/13 18:18	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		02/23/13 18:18	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		02/23/13 18:18	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		02/23/13 18:18	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		02/23/13 18:18	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		02/23/13 18:18	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		02/23/13 18:18	2037-26-5	

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ANALYTICAL RESULTS

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Sample: ECIE-0213-IDW1 **Lab ID: 92148941008** Collected: 02/20/13 16:00 Received: 02/21/13 15:55 Matrix: Other

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Leachate Method/Date: EPA 1311; 02/27/13 22:00								
Arsenic	ND	mg/L	0.050	0.014	1	02/28/13 18:00	03/01/13 15:24	7440-38-2	
Barium	**1.7**	mg/L	0.25	0.0050	1	02/28/13 18:00	03/01/13 15:24	7440-39-3	
Cadmium	ND	mg/L	0.0050	0.0025	1	02/28/13 18:00	03/01/13 15:24	7440-43-9	
Chromium	ND	mg/L	0.025	0.0020	1	02/28/13 18:00	03/01/13 15:24	7440-47-3	
Lead	ND	mg/L	0.025	0.020	1	02/28/13 18:00	03/01/13 15:24	7439-92-1	
Selenium	ND	mg/L	0.10	0.019	1	02/28/13 18:00	03/01/13 15:24	7782-49-2	
Silver	ND	mg/L	0.025	0.00050	1	02/28/13 18:00	03/01/13 15:24	7440-22-4	
7470 Mercury, TCLP	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
	Leachate Method/Date: EPA 1311; 02/27/13 22:00								
Mercury	ND	ug/L	0.20	0.090	1	03/01/13 11:45	03/01/13 15:23	7439-97-6	
8270 MSSV TCLP Sep Funnel	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
	Leachate Method/Date: EPA 1311; 02/28/13 14:00								
1,4-Dichlorobenzene	ND	ug/L	50.0	50.0	1	03/01/13 08:40	03/04/13 12:59	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	50.0	50.0	1	03/01/13 08:40	03/04/13 12:59	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	50.0	50.0	1	03/01/13 08:40	03/04/13 12:59	87-68-3	
Hexachlorobenzene	ND	ug/L	50.0	50.0	1	03/01/13 08:40	03/04/13 12:59	118-74-1	
Hexachloroethane	ND	ug/L	50.0	50.0	1	03/01/13 08:40	03/04/13 12:59	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	50.0	50.0	1	03/01/13 08:40	03/04/13 12:59	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	50.0	50.0	1	03/01/13 08:40	03/04/13 12:59		
Nitrobenzene	ND	ug/L	50.0	50.0	1	03/01/13 08:40	03/04/13 12:59	98-95-3	
Pentachlorophenol	ND	ug/L	100	100	1	03/01/13 08:40	03/04/13 12:59	87-86-5	
Pyridine	ND	ug/L	50.0	50.0	1	03/01/13 08:40	03/04/13 12:59	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	50.0	50.0	1	03/01/13 08:40	03/04/13 12:59	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	50.0	50.0	1	03/01/13 08:40	03/04/13 12:59	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	70	%	12-102		1	03/01/13 08:40	03/04/13 12:59	4165-60-0	
2-Fluorobiphenyl (S)	73	%	13-107		1	03/01/13 08:40	03/04/13 12:59	321-60-8	
Terphenyl-d14 (S)	49	%	21-132		1	03/01/13 08:40	03/04/13 12:59	1718-51-0	
Phenol-d6 (S)	35	%	10-110		1	03/01/13 08:40	03/04/13 12:59	13127-88-3	
2-Fluorophenol (S)	44	%	10-110		1	03/01/13 08:40	03/04/13 12:59	367-12-4	
2,4,6-Tribromophenol (S)	59	%	27-108		1	03/01/13 08:40	03/04/13 12:59	118-79-6	
8260 MSV TCLP	Analytical Method: EPA 8260								
Benzene	ND	ug/L	192	46.2	38.5		02/26/13 21:26	71-43-2	
2-Butanone (MEK)	ND	ug/L	385	108	38.5		02/26/13 21:26	78-93-3	
Carbon tetrachloride	ND	ug/L	192	104	38.5		02/26/13 21:26	56-23-5	
Chlorobenzene	ND	ug/L	192	38.5	38.5		02/26/13 21:26	108-90-7	
Chloroform	ND	ug/L	192	77.0	38.5		02/26/13 21:26	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	192	46.2	38.5		02/26/13 21:26	106-46-7	
1,2-Dichloroethane	ND	ug/L	192	50.0	38.5		02/26/13 21:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	192	131	38.5		02/26/13 21:26	75-35-4	

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ANALYTICAL RESULTS

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Sample: ECIE-0213-IDW1 **Lab ID: 92148941008** Collected: 02/20/13 16:00 Received: 02/21/13 15:55 Matrix: Other

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260								
Tetrachloroethene	ND	ug/L	192	73.2	38.5		02/26/13 21:26	127-18-4	
Trichloroethene	ND	ug/L	192	38.5	38.5		02/26/13 21:26	79-01-6	
Vinyl chloride	ND	ug/L	192	73.2	38.5		02/26/13 21:26	75-01-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	110	%	70-130		38.5		02/26/13 21:26	17060-07-0	1g
Toluene-d8 (S)	98	%	67-135		38.5		02/26/13 21:26	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		38.5		02/26/13 21:26	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		38.5		02/26/13 21:26	1868-53-7	

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QUALITY CONTROL DATA

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

QC Batch: MERP/4966
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury TCLP
Associated Lab Samples: 92148941008

METHOD BLANK: 930812
Matrix: Water
Associated Lab Samples: 92148941008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	03/01/13 14:29	

LABORATORY CONTROL SAMPLE: 930813

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.4	94	80-120	

MATRIX SPIKE SAMPLE: 930814

Parameter	Units	92147669001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	0.39	2.5	2.7	92	75-125	

SAMPLE DUPLICATE: 930815

Parameter	Units	92147669002 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	0.53	0.53	0	20	

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QUALITY CONTROL DATA

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

QC Batch: MERP/4951 — Analysis Method: EPA 7470
QC Batch Method: EPA 7470 — Analysis Description: 7470 Mercury
Associated Lab Samples: 92148941004, 92148941005

METHOD BLANK: 928077 — Matrix: Water
Associated Lab Samples: 92148941004, 92148941005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/28/13 14:36	

LABORATORY CONTROL SAMPLE: 928078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.3	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 928079 928080

Parameter	Units	92148941004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.3	2.2	92	90	75-125	2	25	

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QUALITY CONTROL DATA

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

QC Batch: MPRP/12718
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET TCLP
Associated Lab Samples: 92148941008

METHOD BLANK: 930610
Matrix: Water
Associated Lab Samples: 92148941008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.050	03/01/13 14:24	
Barium	mg/L	ND	0.25	03/01/13 14:24	
Cadmium	mg/L	ND	0.0050	03/01/13 14:24	
Chromium	mg/L	ND	0.025	03/01/13 14:24	
Lead	mg/L	ND	0.025	03/01/13 14:24	
Selenium	mg/L	ND	0.10	03/01/13 14:24	
Silver	mg/L	ND	0.025	03/01/13 14:24	

LABORATORY CONTROL SAMPLE: 930611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	2.5	2.7	109	80-120	
Barium	mg/L	2.5	2.4	96	80-120	
Cadmium	mg/L	2.5	2.4	96	80-120	
Chromium	mg/L	2.5	2.5	99	80-120	
Lead	mg/L	2.5	2.3	90	80-120	
Selenium	mg/L	2.5	2.8	111	80-120	
Silver	mg/L	1.2	1.4	108	80-120	

MATRIX SPIKE SAMPLE: 930612

Parameter	Units	92147669001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	ND	2.5	2.7	108	75-125	
Barium	mg/L	ND	2.5	2.4	91	75-125	
Cadmium	mg/L	ND	2.5	2.4	94	75-125	
Chromium	mg/L	ND	2.5	2.4	97	75-125	
Lead	mg/L	ND	2.5	2.2	87	75-125	
Selenium	mg/L	ND	2.5	2.8	109	75-125	
Silver	mg/L	ND	1.2	1.3	107	75-125	

SAMPLE DUPLICATE: 930613

Parameter	Units	92147669002 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	ND		20	
Barium	mg/L	ND	.09J		20	
Cadmium	mg/L	ND	ND		20	
Chromium	mg/L	ND	ND		20	
Lead	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

SAMPLE DUPLICATE: 930613

Parameter	Units	92147669002 Result	Dup Result	RPD	Max RPD	Qualifiers
Selenium	mg/L	ND	ND		20	
Silver	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

QC Batch: MPRP/12682
Analysis Method: EPA 6010
QC Batch Method: EPA 3010
Analysis Description: 6010 MET
Associated Lab Samples: 92148941004, 92148941005

METHOD BLANK: 927807
Matrix: Water
Associated Lab Samples: 92148941004, 92148941005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	02/24/13 11:59	
Arsenic	ug/L	ND	10.0	02/24/13 11:59	
Beryllium	ug/L	ND	1.0	02/24/13 11:59	
Cadmium	ug/L	ND	1.0	02/24/13 11:59	
Chromium	ug/L	ND	5.0	02/24/13 11:59	
Copper	ug/L	ND	5.0	02/24/13 11:59	
Lead	ug/L	ND	5.0	02/24/13 11:59	
Manganese	ug/L	ND	5.0	02/24/13 11:59	
Nickel	ug/L	ND	5.0	02/24/13 11:59	
Selenium	ug/L	ND	10.0	02/24/13 11:59	
Silver	ug/L	ND	5.0	02/24/13 11:59	
Thallium	ug/L	ND	10.0	02/24/13 11:59	
Zinc	ug/L	ND	10.0	02/24/13 11:59	

LABORATORY CONTROL SAMPLE: 927808

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	493	99	80-120	
Arsenic	ug/L	500	484	97	80-120	
Beryllium	ug/L	500	479	96	80-120	
Cadmium	ug/L	500	488	98	80-120	
Chromium	ug/L	500	497	99	80-120	
Copper	ug/L	500	493	99	80-120	
Lead	ug/L	500	485	97	80-120	
Manganese	ug/L	500	489	98	80-120	
Nickel	ug/L	500	496	99	80-120	
Selenium	ug/L	500	482	96	80-120	
Silver	ug/L	250	245	98	80-120	
Thallium	ug/L	500	474	95	80-120	
Zinc	ug/L	500	484	97	80-120	

MATRIX SPIKE SAMPLE: 927809

Parameter	Units	92148418003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	0.0078 mg/L	500	488	96	75-125	
Arsenic	ug/L	ND	500	536	107	75-125	
Beryllium	ug/L	ND	500	498	100	75-125	
Cadmium	ug/L	ND	500	477	95	75-125	
Chromium	ug/L	0.019 mg/L	500	520	100	75-125	
Copper	ug/L	0.49 mg/L	500	1030	109	75-125	

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QUALITY CONTROL DATA

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

MATRIX SPIKE SAMPLE: 927809

Parameter	Units	92148418003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	0.037 mg/L	500	489	90	75-125	
Manganese	ug/L	0.53 mg/L	500	1020	98	75-125	
Nickel	ug/L	0.020 mg/L	500	506	97	75-125	
Selenium	ug/L	0.019 mg/L	500	526	101	75-125	
Silver	ug/L	0.014 mg/L	250	260	98	75-125	
Thallium	ug/L	ND	500	406	81	75-125	
Zinc	ug/L	0.92 mg/L	500	1450	106	75-125	

SAMPLE DUPLICATE: 927810

Parameter	Units	92148681001 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		20	
Arsenic	ug/L	ND	ND		20	
Beryllium	ug/L	ND	ND		20	
Cadmium	ug/L	ND	ND		20	
Chromium	ug/L	ND	ND		20	
Copper	ug/L	ND	ND		20	
Lead	ug/L	ND	ND		20	
Manganese	ug/L	11600	11700	1	20	
Nickel	ug/L	ND	ND		20	
Selenium	ug/L	10.0	ND		20	
Silver	ug/L	ND	ND		20	
Thallium	ug/L	ND	ND		20	
Zinc	ug/L	57.6	57.6	0	20	

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QUALITY CONTROL DATA

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

QC Batch: MSV/22163
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 92148941008

METHOD BLANK: 928604
Matrix: Water
Associated Lab Samples: 92148941008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	5.0	02/26/13 11:23	
1,2-Dichloroethane	ug/L	ND	5.0	02/26/13 11:23	
1,4-Dichlorobenzene	ug/L	ND	5.0	02/26/13 11:23	
2-Butanone (MEK)	ug/L	ND	10.0	02/26/13 11:23	
Benzene	ug/L	ND	5.0	02/26/13 11:23	
Carbon tetrachloride	ug/L	ND	5.0	02/26/13 11:23	
Chlorobenzene	ug/L	ND	5.0	02/26/13 11:23	
Chloroform	ug/L	ND	5.0	02/26/13 11:23	
Tetrachloroethene	ug/L	ND	5.0	02/26/13 11:23	
Trichloroethene	ug/L	ND	5.0	02/26/13 11:23	
Vinyl chloride	ug/L	ND	5.0	02/26/13 11:23	
1,2-Dichloroethane-d4 (S)	%	94	70-130	02/26/13 11:23	
4-Bromofluorobenzene (S)	%	102	70-130	02/26/13 11:23	
Dibromofluoromethane (S)	%	96	70-130	02/26/13 11:23	
Toluene-d8 (S)	%	100	67-135	02/26/13 11:23	

LABORATORY CONTROL SAMPLE: 928605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	52.0	104	70-141	
1,2-Dichloroethane	ug/L	50	53.7	107	70-139	
1,4-Dichlorobenzene	ug/L	50	48.9	98	70-141	
2-Butanone (MEK)	ug/L	100	94.5	95	63-150	
Benzene	ug/L	50	48.8	98	70-132	
Carbon tetrachloride	ug/L	50	51.7	103	70-150	
Chlorobenzene	ug/L	50	50.1	100	70-134	
Chloroform	ug/L	50	52.9	106	70-130	
Tetrachloroethene	ug/L	50	52.3	105	70-137	
Trichloroethene	ug/L	50	49.0	98	70-131	
Vinyl chloride	ug/L	50	52.9	106	56-144	
1,2-Dichloroethane-d4 (S)	%			110	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			104	70-130	
Toluene-d8 (S)	%			99	67-135	

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QUALITY CONTROL DATA

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

QC Batch: MSV/22130 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92148941001, 92148941002, 92148941003, 92148941004, 92148941005, 92148941006, 92148941007

METHOD BLANK: 927740 Matrix: Water
Associated Lab Samples: 92148941001, 92148941002, 92148941003, 92148941004, 92148941005, 92148941006, 92148941007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/23/13 17:23	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/23/13 17:23	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/23/13 17:23	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/23/13 17:23	
1,1-Dichloroethane	ug/L	ND	1.0	02/23/13 17:23	
1,1-Dichloroethene	ug/L	ND	1.0	02/23/13 17:23	
1,1-Dichloropropene	ug/L	ND	1.0	02/23/13 17:23	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	02/23/13 17:23	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/23/13 17:23	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	02/23/13 17:23	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	02/23/13 17:23	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/23/13 17:23	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/23/13 17:23	
1,2-Dichloroethane	ug/L	ND	1.0	02/23/13 17:23	
1,2-Dichloropropane	ug/L	ND	1.0	02/23/13 17:23	
1,3-Dichlorobenzene	ug/L	ND	1.0	02/23/13 17:23	
1,3-Dichloropropane	ug/L	ND	1.0	02/23/13 17:23	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/23/13 17:23	
2,2-Dichloropropane	ug/L	ND	1.0	02/23/13 17:23	
2-Butanone (MEK)	ug/L	ND	5.0	02/23/13 17:23	
2-Chlorotoluene	ug/L	ND	1.0	02/23/13 17:23	
2-Hexanone	ug/L	ND	5.0	02/23/13 17:23	
4-Chlorotoluene	ug/L	ND	1.0	02/23/13 17:23	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	02/23/13 17:23	
Acetone	ug/L	ND	25.0	02/23/13 17:23	
Benzene	ug/L	ND	1.0	02/23/13 17:23	
Bromobenzene	ug/L	ND	1.0	02/23/13 17:23	
Bromochloromethane	ug/L	ND	1.0	02/23/13 17:23	
Bromodichloromethane	ug/L	ND	1.0	02/23/13 17:23	
Bromoform	ug/L	ND	1.0	02/23/13 17:23	
Bromomethane	ug/L	ND	2.0	02/23/13 17:23	
Carbon tetrachloride	ug/L	ND	1.0	02/23/13 17:23	
Chlorobenzene	ug/L	ND	1.0	02/23/13 17:23	
Chloroethane	ug/L	ND	1.0	02/23/13 17:23	
Chloroform	ug/L	ND	1.0	02/23/13 17:23	
Chloromethane	ug/L	ND	1.0	02/23/13 17:23	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/23/13 17:23	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/23/13 17:23	
Dibromochloromethane	ug/L	ND	1.0	02/23/13 17:23	
Dibromomethane	ug/L	ND	1.0	02/23/13 17:23	
Dichlorodifluoromethane	ug/L	ND	1.0	02/23/13 17:23	
Diisopropyl ether	ug/L	ND	1.0	02/23/13 17:23	
Ethylbenzene	ug/L	ND	1.0	02/23/13 17:23	

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QUALITY CONTROL DATA

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

METHOD BLANK: 927740 Matrix: Water

Associated Lab Samples: 92148941001, 92148941002, 92148941003, 92148941004, 92148941005, 92148941006, 92148941007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	02/23/13 17:23	
m&p-Xylene	ug/L	ND	2.0	02/23/13 17:23	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/23/13 17:23	
Methylene Chloride	ug/L	ND	2.0	02/23/13 17:23	
Naphthalene	ug/L	ND	1.0	02/23/13 17:23	
o-Xylene	ug/L	ND	1.0	02/23/13 17:23	
p-Isopropyltoluene	ug/L	ND	1.0	02/23/13 17:23	
Styrene	ug/L	ND	1.0	02/23/13 17:23	
Tetrachloroethene	ug/L	ND	1.0	02/23/13 17:23	
Toluene	ug/L	ND	1.0	02/23/13 17:23	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/23/13 17:23	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/23/13 17:23	
Trichloroethene	ug/L	ND	1.0	02/23/13 17:23	
Trichlorofluoromethane	ug/L	ND	1.0	02/23/13 17:23	
Vinyl acetate	ug/L	ND	2.0	02/23/13 17:23	
Vinyl chloride	ug/L	ND	1.0	02/23/13 17:23	
Xylene (Total)	ug/L	ND	2.0	02/23/13 17:23	
1,2-Dichloroethane-d4 (S)	%	107	70-130	02/23/13 17:23	
4-Bromofluorobenzene (S)	%	89	70-130	02/23/13 17:23	
Dibromofluoromethane (S)	%	99	70-130	02/23/13 17:23	
Toluene-d8 (S)	%	99	70-130	02/23/13 17:23	

LABORATORY CONTROL SAMPLE: 927741

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.2	106	70-130	
1,1,1-Trichloroethane	ug/L	50	50.5	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.4	99	70-130	
1,1,2-Trichloroethane	ug/L	50	49.9	100	70-130	
1,1-Dichloroethane	ug/L	50	48.6	97	70-130	
1,1-Dichloroethene	ug/L	50	47.7	95	70-132	
1,1-Dichloropropene	ug/L	50	45.3	91	70-130	
1,2,3-Trichlorobenzene	ug/L	50	33.5	67	70-135	L0
1,2,3-Trichloropropane	ug/L	50	50.4	101	70-130	
1,2,4-Trichlorobenzene	ug/L	50	38.6	77	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	54.0	108	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.9	106	70-130	
1,2-Dichlorobenzene	ug/L	50	49.2	98	70-130	
1,2-Dichloroethane	ug/L	50	51.7	103	70-130	
1,2-Dichloropropane	ug/L	50	49.8	100	70-130	
1,3-Dichlorobenzene	ug/L	50	48.6	97	70-130	
1,3-Dichloropropane	ug/L	50	51.2	102	70-130	
1,4-Dichlorobenzene	ug/L	50	49.2	98	70-130	
2,2-Dichloropropane	ug/L	50	37.6	75	58-145	
2-Butanone (MEK)	ug/L	100	98.0	98	70-145	

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QUALITY CONTROL DATA

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

LABORATORY CONTROL SAMPLE: 927741

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chlorotoluene	ug/L	50	49.2	98	70-130	
2-Hexanone	ug/L	100	109	109	70-144	
4-Chlorotoluene	ug/L	50	49.2	98	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	70-140	
Acetone	ug/L	100	104	104	50-175	
Benzene	ug/L	50	48.2	96	70-130	
Bromobenzene	ug/L	50	50.4	101	70-130	
Bromochloromethane	ug/L	50	50.5	101	70-130	
Bromodichloromethane	ug/L	50	55.4	111	70-130	
Bromoform	ug/L	50	45.4	91	70-130	
Bromomethane	ug/L	50	49.4	99	54-130	
Carbon tetrachloride	ug/L	50	52.5	105	70-132	
Chlorobenzene	ug/L	50	47.8	96	70-130	
Chloroethane	ug/L	50	39.1	78	64-134	
Chloroform	ug/L	50	49.6	99	70-130	
Chloromethane	ug/L	50	46.5	93	64-130	
cis-1,2-Dichloroethene	ug/L	50	48.1	96	70-131	
cis-1,3-Dichloropropene	ug/L	50	52.7	105	70-130	
Dibromochloromethane	ug/L	50	51.4	103	70-130	
Dibromomethane	ug/L	50	52.6	105	70-131	
Dichlorodifluoromethane	ug/L	50	35.7	71	56-130	
Diisopropyl ether	ug/L	50	47.6	95	70-130	
Ethylbenzene	ug/L	50	46.0	92	70-130	
Hexachloro-1,3-butadiene	ug/L	50	35.3	71	70-130	
m&p-Xylene	ug/L	100	93.5	93	70-130	
Methyl-tert-butyl ether	ug/L	50	48.7	97	70-130	
Methylene Chloride	ug/L	50	50.7	101	63-130	
Naphthalene	ug/L	50	36.4	73	70-138	
o-Xylene	ug/L	50	46.5	93	70-130	
p-Isopropyltoluene	ug/L	50	48.2	96	70-130	
Styrene	ug/L	50	48.4	97	70-130	
Tetrachloroethene	ug/L	50	44.7	89	70-130	
Toluene	ug/L	50	46.9	94	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.0	96	70-130	
trans-1,3-Dichloropropene	ug/L	50	57.1	114	70-132	
Trichloroethene	ug/L	50	48.2	96	70-130	
Trichlorofluoromethane	ug/L	50	46.6	93	62-133	
Vinyl acetate	ug/L	100	110	110	66-157	
Vinyl chloride	ug/L	50	40.6	81	69-130	
Xylene (Total)	ug/L	150	140	93	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927742 927743

Parameter	Units	92148975001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	43.1	45.9	86	92	70-166	6	30	
Benzene	ug/L	ND	50	50	38.5	41.2	77	82	70-148	7	30	
Chlorobenzene	ug/L	ND	50	50	43.7	47.9	87	96	70-146	9	30	
Toluene	ug/L	ND	50	50	43.4	46.8	87	94	70-155	8	30	
Trichloroethene	ug/L	ND	50	50	43.9	47.2	88	94	69-151	7	30	
1,2-Dichloroethane-d4 (S)	%						100	99	70-130			
4-Bromofluorobenzene (S)	%						92	93	70-130			
Dibromofluoromethane (S)	%						96	95	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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QUALITY CONTROL DATA

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

QC Batch: OEXT/21005
QC Batch Method: EPA 3510
Analysis Method: EPA 8270
Analysis Description: 8270 TCLP MSSV
Associated Lab Samples: 92148941008

METHOD BLANK: 930787
Matrix: Water
Associated Lab Samples: 92148941008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	50.0	03/04/13 12:05	
2,4,5-Trichlorophenol	ug/L	ND	50.0	03/04/13 12:05	
2,4,6-Trichlorophenol	ug/L	ND	50.0	03/04/13 12:05	
2,4-Dinitrotoluene	ug/L	ND	50.0	03/04/13 12:05	
2-Methylphenol(o-Cresol)	ug/L	ND	50.0	03/04/13 12:05	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50.0	03/04/13 12:05	
Hexachloro-1,3-butadiene	ug/L	ND	50.0	03/04/13 12:05	
Hexachlorobenzene	ug/L	ND	50.0	03/04/13 12:05	
Hexachloroethane	ug/L	ND	50.0	03/04/13 12:05	
Nitrobenzene	ug/L	ND	50.0	03/04/13 12:05	
Pentachlorophenol	ug/L	ND	100	03/04/13 12:05	
Pyridine	ug/L	ND	50.0	03/04/13 12:05	
2,4,6-Tribromophenol (S)	%	74	27-108	03/04/13 12:05	
2-Fluorobiphenyl (S)	%	83	13-107	03/04/13 12:05	
2-Fluorophenol (S)	%	43	10-110	03/04/13 12:05	
Nitrobenzene-d5 (S)	%	81	12-102	03/04/13 12:05	
Phenol-d6 (S)	%	30	10-110	03/04/13 12:05	
Terphenyl-d14 (S)	%	82	21-132	03/04/13 12:05	

LABORATORY CONTROL SAMPLE: 930788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	500	328	66	10-110	
2,4,5-Trichlorophenol	ug/L	500	396	79	39-108	
2,4,6-Trichlorophenol	ug/L	500	391	78	40-104	
2,4-Dinitrotoluene	ug/L	500	379	76	42-109	
2-Methylphenol(o-Cresol)	ug/L	500	359	72	31-110	
3&4-Methylphenol(m&p Cresol)	ug/L	500	330	66	30-110	
Hexachloro-1,3-butadiene	ug/L	500	281	56	10-110	
Hexachlorobenzene	ug/L	500	372	74	39-121	
Hexachloroethane	ug/L	500	310	62	10-110	
Nitrobenzene	ug/L	500	334	67	32-101	
Pentachlorophenol	ug/L	1000	905	90	18-108	
Pyridine	ug/L	500	196	39	10-110	
2,4,6-Tribromophenol (S)	%			86	27-108	
2-Fluorobiphenyl (S)	%			81	13-107	
2-Fluorophenol (S)	%			46	10-110	
Nitrobenzene-d5 (S)	%			80	12-102	
Phenol-d6 (S)	%			32	10-110	
Terphenyl-d14 (S)	%			65	21-132	

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QUALITY CONTROL DATA

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 930789 930790

Parameter	Units	92148941008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	ND	500	500	325	337	65	67	30-150	4	30	
2,4,5-Trichlorophenol	ug/L	ND	500	500	371	420	74	84	30-150	12	30	
2,4,6-Trichlorophenol	ug/L	ND	500	500	366	425	73	85	30-150	15	30	
2,4-Dinitrotoluene	ug/L	ND	500	500	362	374	72	75	30-150	3	30	
2-Methylphenol(o-Cresol)	ug/L	ND	500	500	321	406	64	81	30-150	23	30	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	500	500	292	380	58	76	30-150	26	30	
Hexachloro-1,3-butadiene	ug/L	ND	500	500	286	299	57	60	30-150	4	30	
Hexachlorobenzene	ug/L	ND	500	500	370	393	74	79	30-150	6	30	
Hexachloroethane	ug/L	ND	500	500	309	326	62	65	30-150	5	30	
Nitrobenzene	ug/L	ND	500	500	331	342	66	68	30-150	3	30	
Pentachlorophenol	ug/L	ND	1000	1000	907	1020	91	102	30-150	12	30	
Pyridine	ug/L	ND	500	500	194	259	39	52	30-150	29	30	
2,4,6-Tribromophenol (S)	%						80	91	27-108			
2-Fluorobiphenyl (S)	%						79	81	13-107			
2-Fluorophenol (S)	%						48	57	10-110			
Nitrobenzene-d5 (S)	%						78	84	12-102			
Phenol-d6 (S)	%						34	47	10-110			
Terphenyl-d14 (S)	%						43	74	21-132			

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QUALIFIERS

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

1g	8260 results are from a total analysis which show that analytes are not present or that they are present but at such low levels that the appropriate regulatory levels could not possibly be exceeded, per Section 1.2 of Method 1311.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ECI Elon 150153.421.00
Pace Project No.: 92148941

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92148941008	**ECIE-0213-IDW1**	EPA 3010	MPRP/12718	EPA 6010	ICP/11596
92148941004	**ECIE-0213-DW2**	EPA 3010	MPRP/12682	EPA 6010	ICP/11560
92148941005	**ECIE-0213-DW2 (DUP)**	EPA 3010	MPRP/12682	EPA 6010	ICP/11560
92148941008	**ECIE-0213-IDW1**	EPA 7470	MERP/4966	EPA 7470	MERC/4836
92148941004	**ECIE-0213-DW2**	EPA 7470	MERP/4951	EPA 7470	MERC/4822
92148941005	**ECIE-0213-DW2 (DUP)**	EPA 7470	MERP/4951	EPA 7470	MERC/4822
92148941008	**ECIE-0213-IDW1**	EPA 3510	OEXT/21005	EPA 8270	MSSV/7424
92148941008	**ECIE-0213-IDW1**	EPA 8260	MSV/22163		
92148941001	**ECIE-0213-MW14**	EPA 8260	MSV/22130		
92148941002	**ECIE-0213-MW15**	EPA 8260	MSV/22130		
92148941003	**ECIE-0213-MW16**	EPA 8260	MSV/22130		
92148941004	**ECIE-0213-DW2**	EPA 8260	MSV/22130		
92148941005	**ECIE-0213-DW2 (DUP)**	EPA 8260	MSV/22130		
92148941006	**ECIE-0213-ERB**	EPA 8260	MSV/22130		
92148941007	**TRIP BLANK**	EPA 8260	MSV/22130		

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TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92148941001
Operator : CAH
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 23-FEB-2013 22:17

Client SDG: 92148941
Client Smp ID: ECIE-0213-MW14
Sample Date: 18-FEB-2013
Sample Point:
Date Received:21-FEB-2013 00:00
Level: LOW

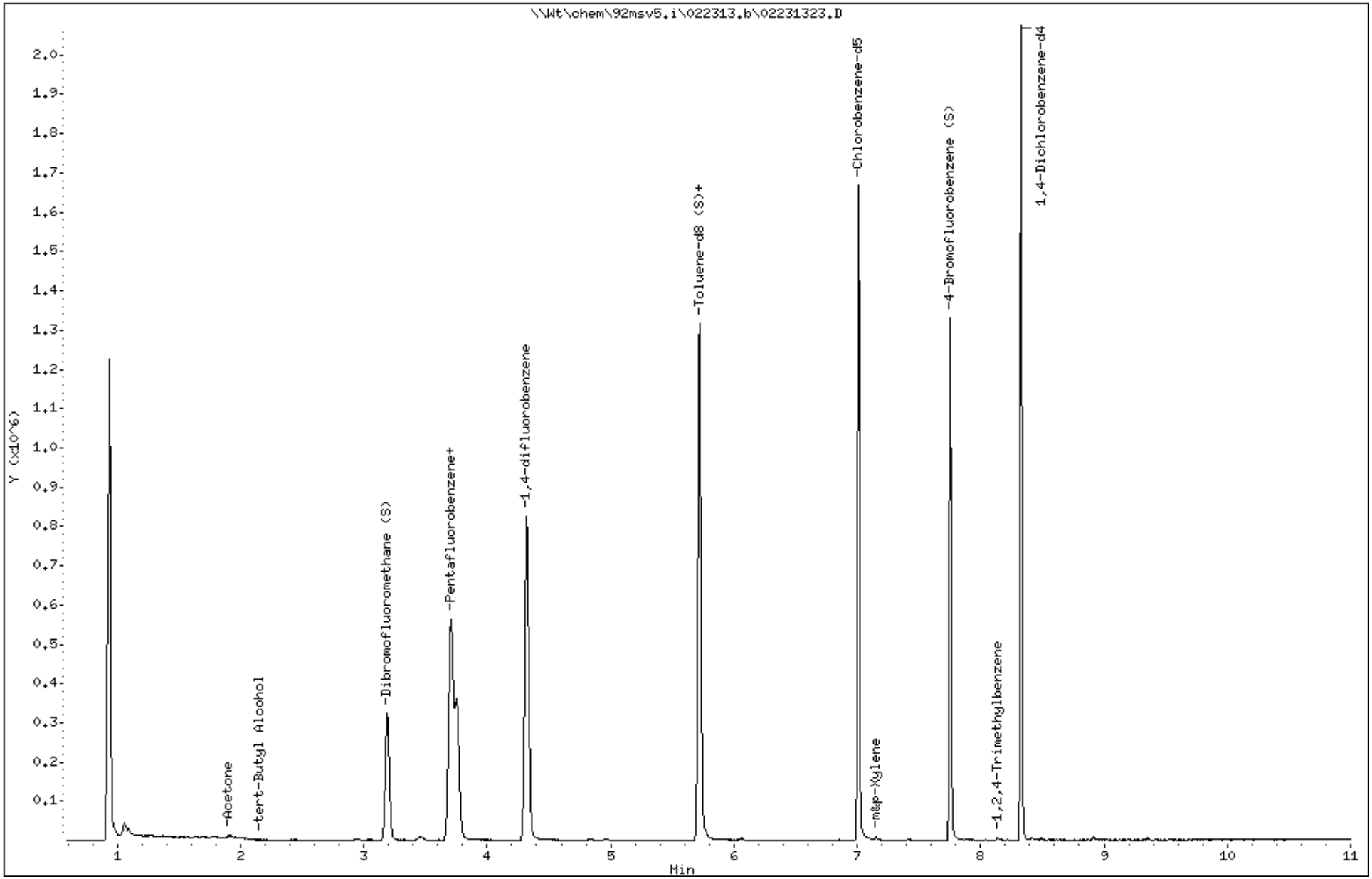
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\Wt\chem\92msv5.i\022313.b\02231323.D
Date : 23-FEB-2013 22:17
Client ID: ECIE-0213-MW14
Sample Info: 022313,8260WLL,CAH,1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 92msv5.i
Operator: CAH
Column diameter: 0.18



Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92148941002
Operator : CAH
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 23-FEB-2013 22:35

Client SDG: 92148941
Client Smp ID: ECIE-0213-MW15
Sample Date: 18-FEB-2013
Sample Point:
Date Received:21-FEB-2013 00:00
Level: LOW

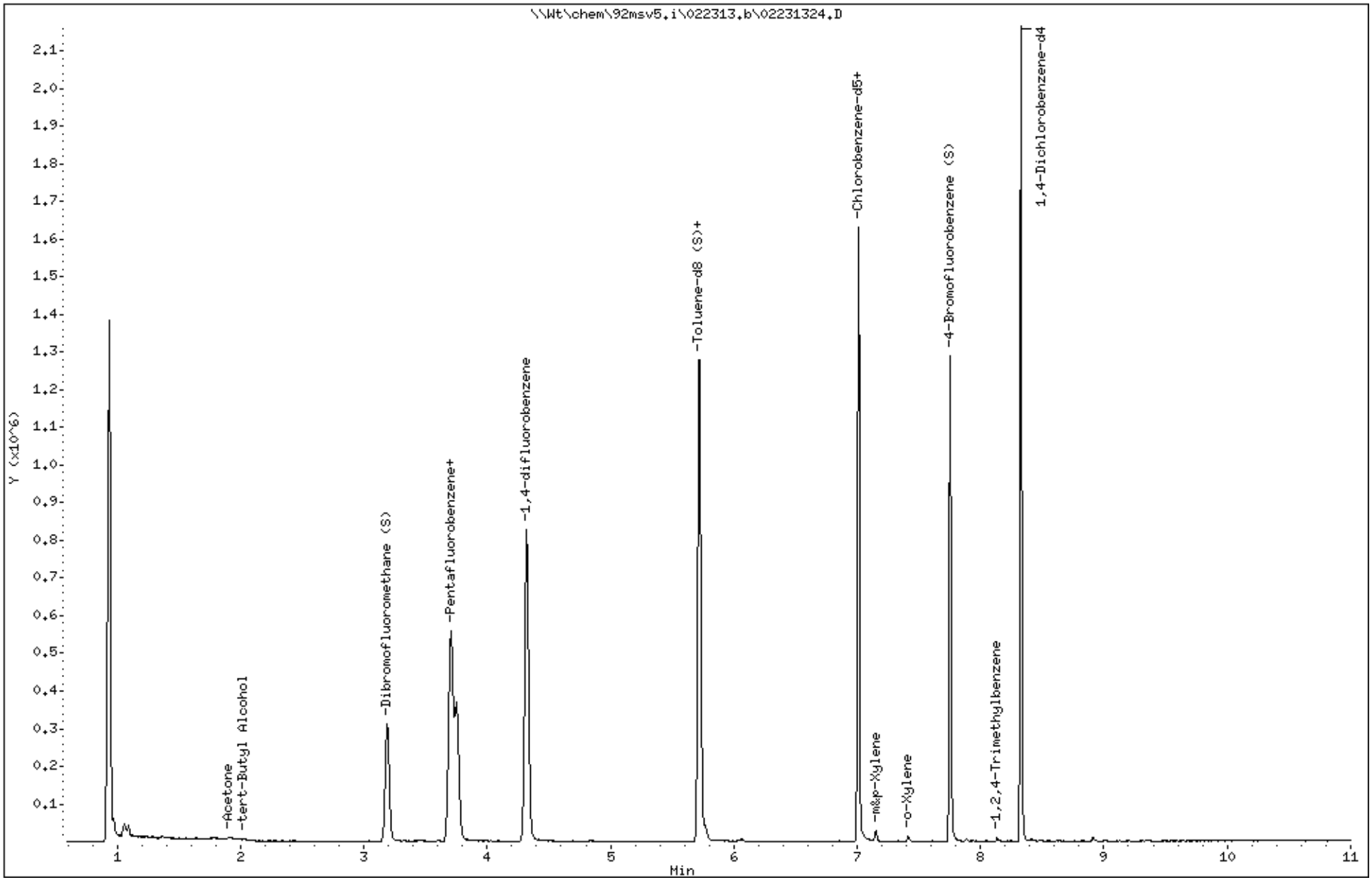
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\Wt\chem\92msv5.i\022313.b\02231324.D
Date : 23-FEB-2013 22:35
Client ID: ECIE-0213-MW15
Sample Info: 022313,8260WLL,CAH,1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 92msv5.i
Operator: CAH
Column diameter: 0.18



Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92148941003
Operator : CAH
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 23-FEB-2013 22:53

Client SDG: 92148941
Client Smp ID: ECIE-0213-MW16
Sample Date: 18-FEB-2013
Sample Point:
Date Received:21-FEB-2013 00:00
Level: LOW

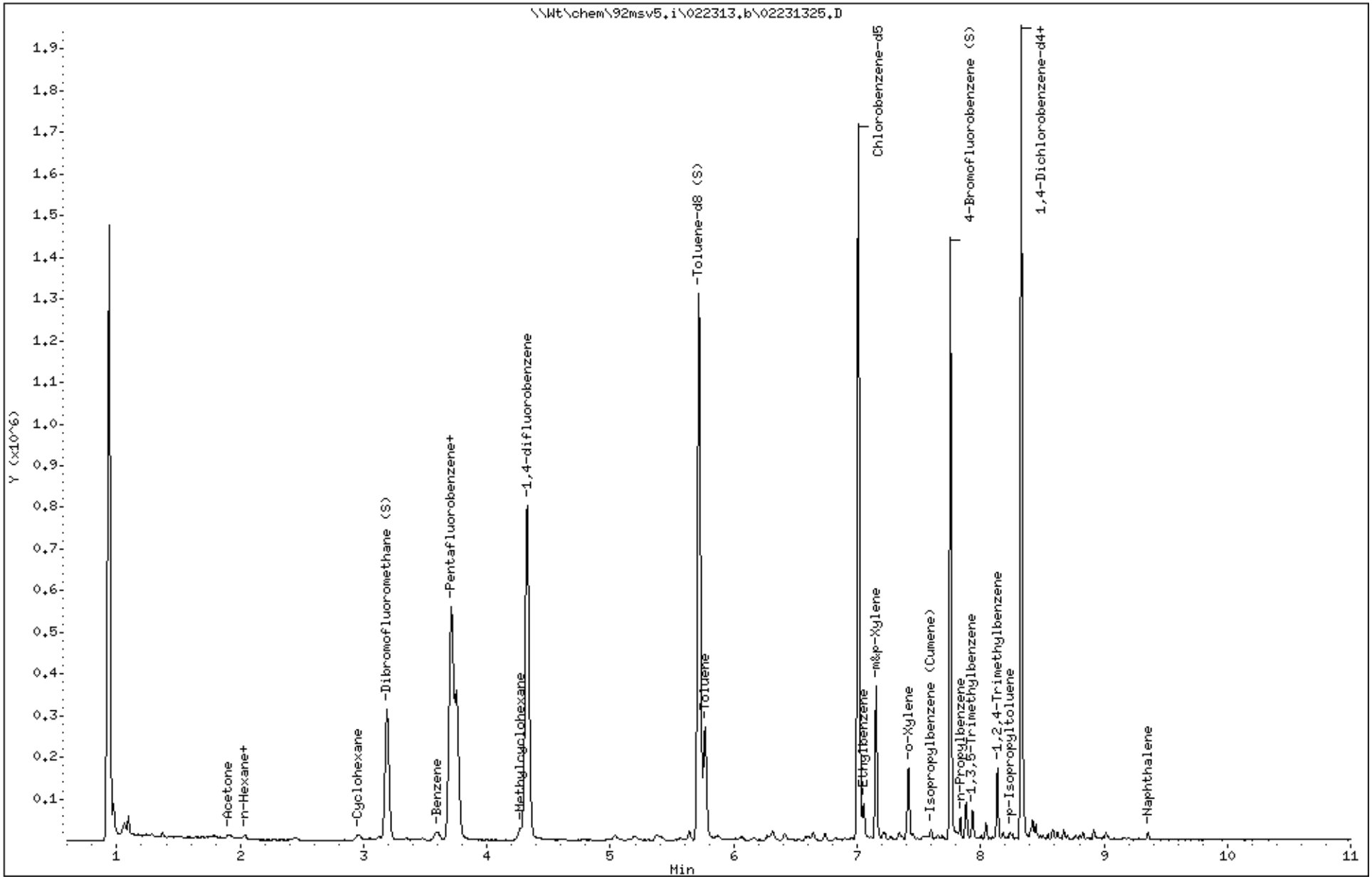
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\Wt\chem\92msv5.i\022313.b\02231325.D
Date : 23-FEB-2013 22:53
Client ID: ECIE-0213-MW16
Sample Info: 022313,8260WLL,CAH,1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 92msv5.i
Operator: CAH
Column diameter: 0.18



Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92148941004
Operator : CAH
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 23-FEB-2013 23:12

Client SDG: 92148941
Client Smp ID: ECIE-0213-DW2
Sample Date: 20-FEB-2013
Sample Point:
Date Received:21-FEB-2013 00:00
Level: LOW

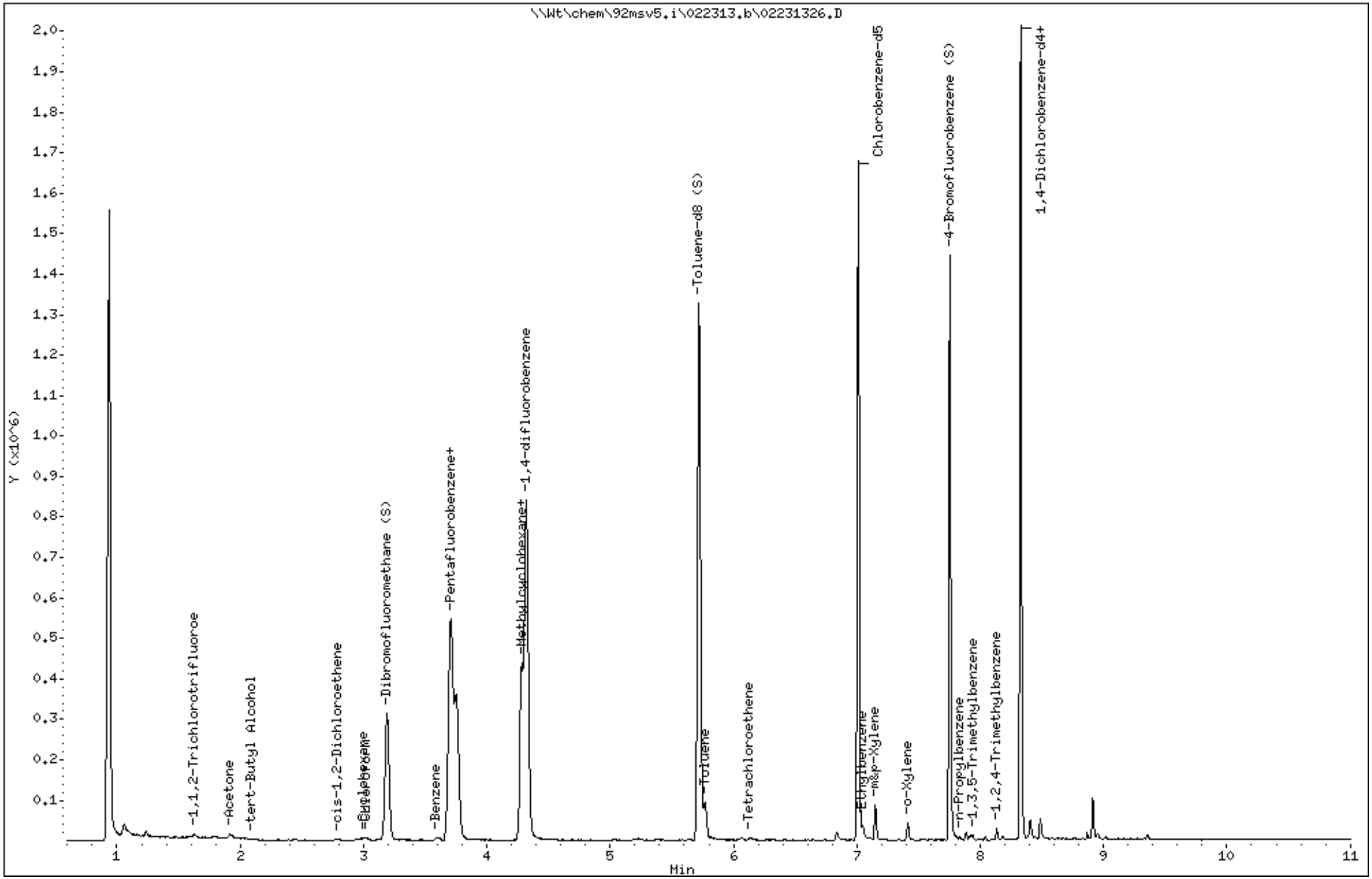
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\Wt\chem\92msv5.i\022313.b\02231326.D
Date : 23-FEB-2013 23:12
Client ID: ECIE-0213-DW2
Sample Info: 022313,8260WLL,CAH,1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 92msv5.i
Operator: CAH
Column diameter: 0.18



Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92148941005
Operator : CAH
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 23-FEB-2013 23:30

Client SDG: 92148941
Client Smp ID: ECIE-0213-DW2 (DUP
Sample Date: 20-FEB-2013
Sample Point:
Date Received:21-FEB-2013 00:00
Level: LOW

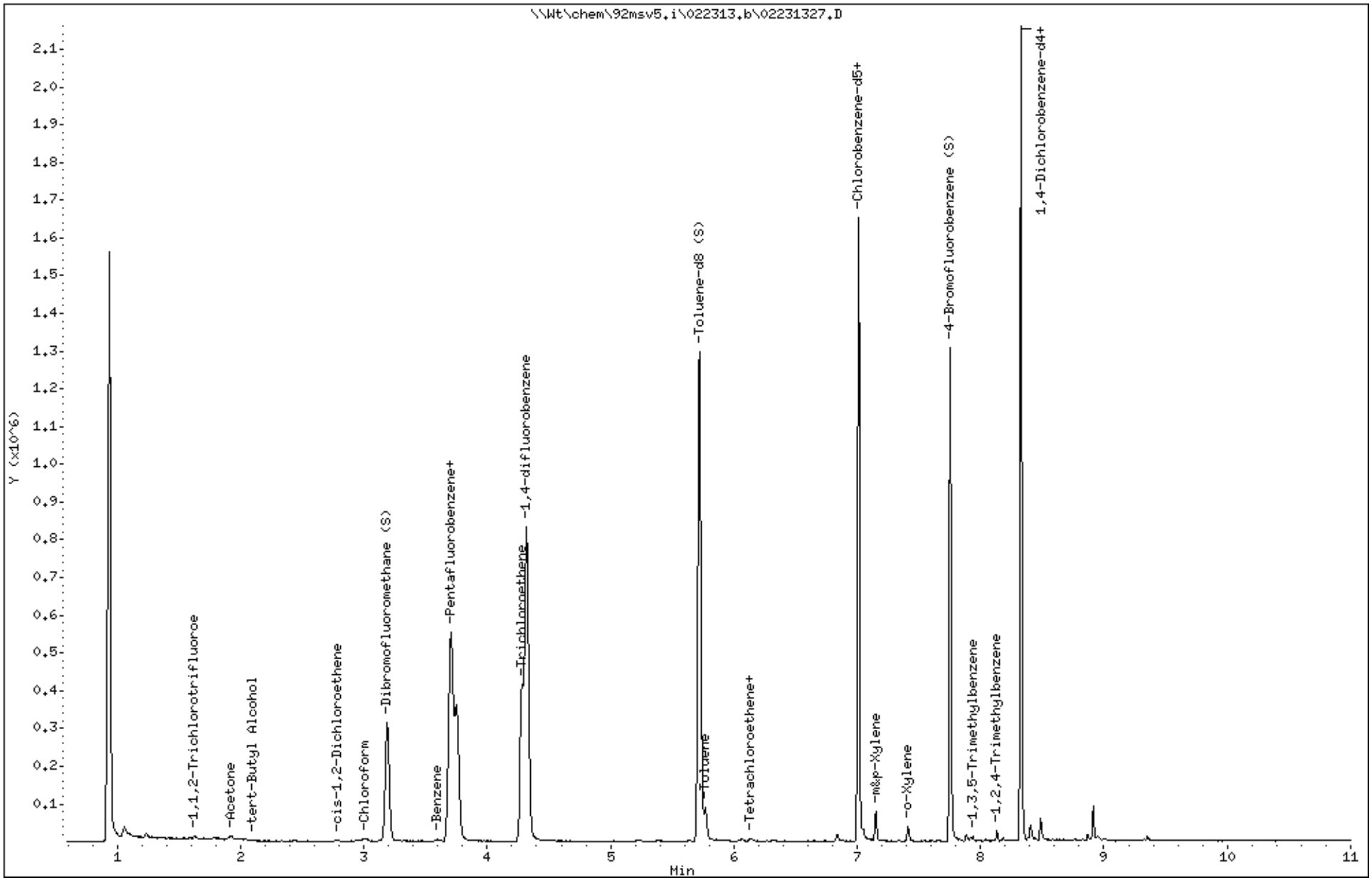
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\Wt\chem\92msv5.i\022313.b\02231327.D
Date : 23-FEB-2013 23:30
Client ID: ECIE-0213-DW2 (DUP
Sample Info: 022313,8260WLL,CAH,1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 92msv5.i
Operator: CAH
Column diameter: 0.18



Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92148941006
Operator : CAH
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 23-FEB-2013 23:49

Client SDG: 92148941
Client Smp ID: ECIE-0213-ERB
Sample Date: 20-FEB-2013
Sample Point:
Date Received:21-FEB-2013 00:00
Level: LOW

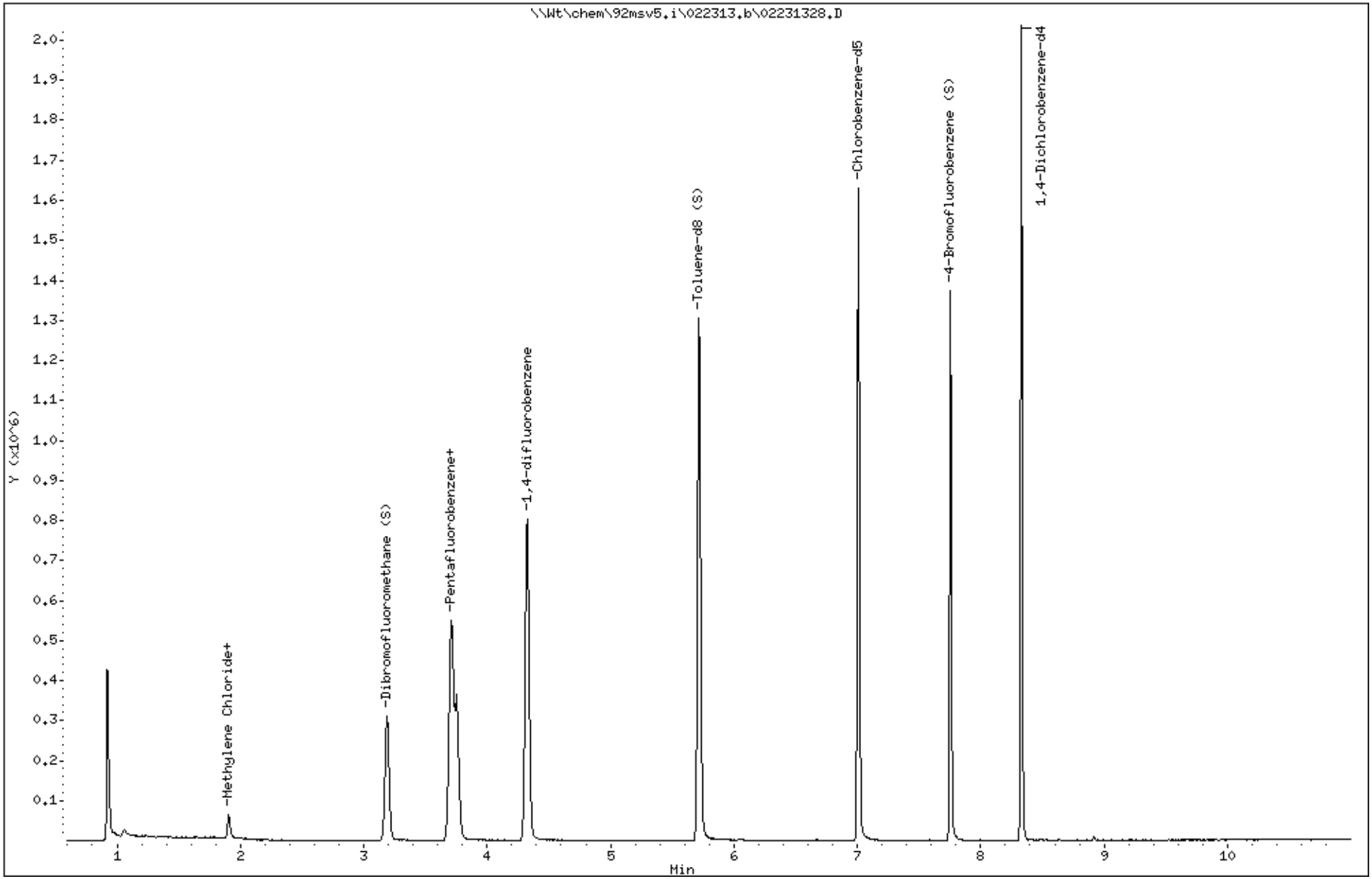
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\Wt\chem\92msv5.i\022313.b\02231328.D
Date : 23-FEB-2013 23:49
Client ID: ECIE-0213-ERB
Sample Info: 022313,8260WLL,CAH,1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 92msv5.i
Operator: CAH
Column diameter: 0.18



Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92148941007
Operator : CAH
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 23-FEB-2013 18:18

Client SDG: 92148941
Client Smp ID: TRIP BLANK
Sample Date: 20-FEB-2013
Sample Point:
Date Received:21-FEB-2013 00:00
Level: LOW

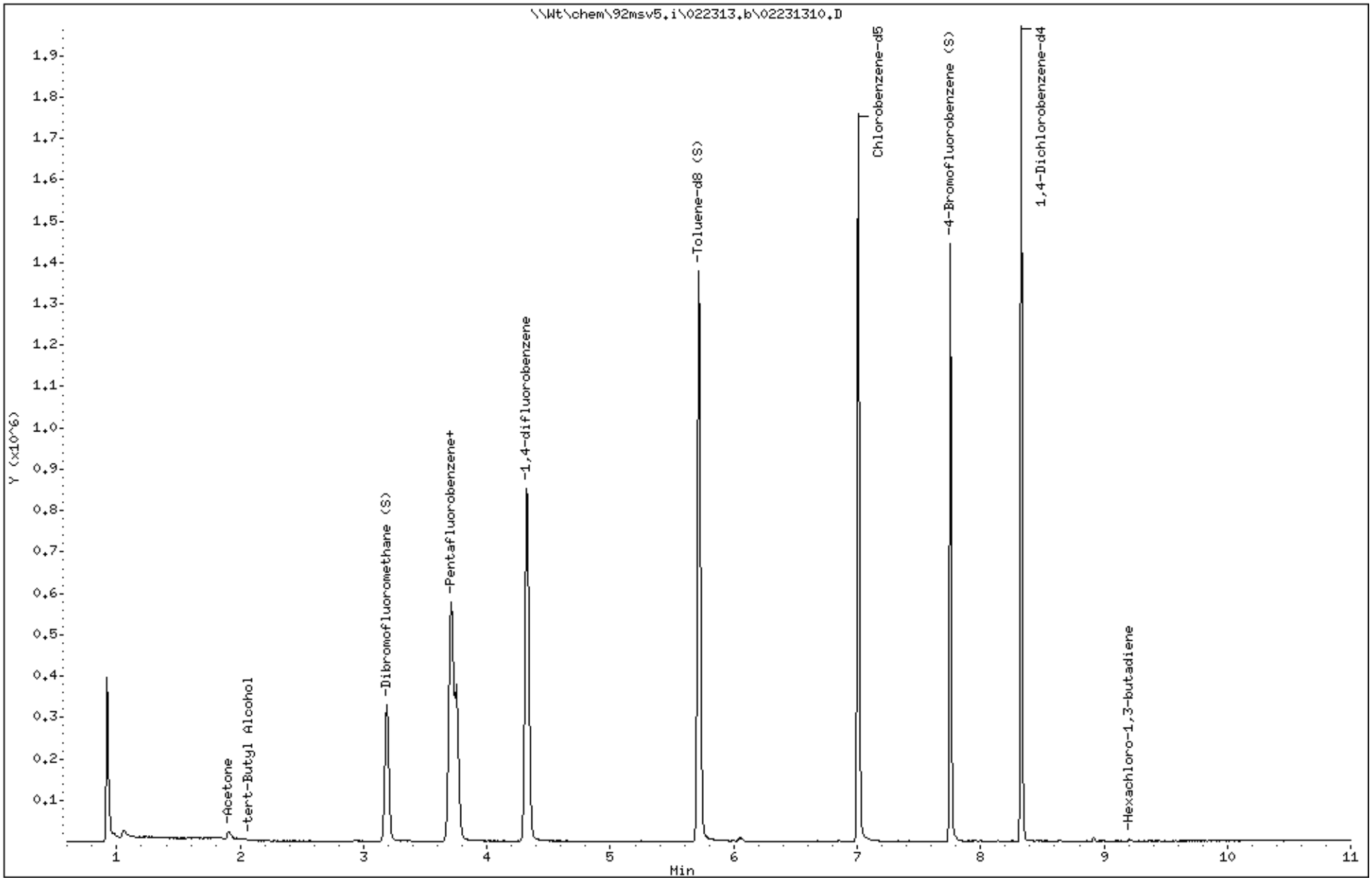
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\Wt\chem\92msv5.i\022313.b\02231310.D
Date : 23-FEB-2013 18:18
Client ID: TRIP BLANK
Sample Info: 022313,8260WLL,CAH,1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 92msv5.i
Operator: CAH
Column diameter: 0.18



Pace Analytical

Document Name: **Sample Condition Upon Receipt (SCU**

Document Number: **F-CHR-CS-03-rev.08**

Document Revised: October 31, 2012

WO# : 92148941

92148941

Client Name: Gaia

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden ☐ Raleigh

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1101 (T1102) **Type of Ice:** (Wet) Blue None ☑ Samples on Ice, cooling process has begun

Temp Correction Factor **T1101**: No Correction **T1102**: No Correction

Corrected Cooler Temp.: 5.9 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: PMT 2/21

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: OT-SL	☐Yes	☑No	☐N/A	12 no time on bottles
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		Initial when completed
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	15.
Trip Blank Present:	☑Yes	☐No	☑N/A	16. 2/21
Trip Blank Custody Seals Present	☑Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased):_____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: BKM **Date:** 2/21/13 **SRF Review:** KCH **Date:** 2/22/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	GaiaTech
Address:	3525 Piedmont Road NE Building 6, Suite 520
	Atlanta, GA 30305
Email To:	Mike Wilson and Will Lucas
Phone: (404) 812-0001	Fax: (404) 812-1992
Requested Due Date/TAT:	5 day TAT

Section B Required Project Information:

Report To:	Michael Wilson mwilson@gaiatech.com
Copy To:	Will Lucas wlucas@gaiatech.com
Purchase Order No.:	150153.421.00
Project Name:	ECI Elon Facility
Project Number:	150153.421.00

Section C Invoice Information:

Attention:	Michael Wilson
Company Name:	GaiaTech
Address:	Same as report address
Pace Quote Reference:	
Pace Project Manager:	Kevin Herring / Allison Cantrell
Pace Profile #:	5513-26

REGULATORY AGENCY

☐ Chec S ☐ GROUND WATER ☐ DRINKING WATER

☐ Chec ☐ RCRA ☐ OTHER _____

Site Location STATE: NC

Section D Client Information — Required

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOC 8260+TICs	HSL METALS	TCLP VOCs, SVOCs, Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	ECIE-0213-MW14	WT	G	2/18/13	1345		4			1	3					X				001
2	ECIE-0213-MW15	WT	G	2/18/13	1450		4			1	3					X				002
3	ECIE-0213-MW16	WT	G	2/18/13	1600		4			1	3					X				003
4	ECIE-0213-DW2	WT	G	2/20/13	1530		4			1	3					X	X			004
5	ECIE-0213-DW2 (DUP)	WT	G	2/20/13	1535		4			1	3					X	X			QA/QC Field Duplicate 005
6																				
7	ECIE-0213-ERB	WT	G	2/20/13	1545		4			1	3					X	X			QA/QC Equipment Rinseate Blank 006
8	TRIP BLANK	WT	G	NA	NA		2	1			1					X				QA/QC Trip Blank 007
9																				
10	ECIE-0213-IDW1	OT	C	2/20/13	1600		3	3										X		008
11																				
12																				

92148941

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	GAIATECH	2/20/13	1040	Pace	2/21/13	1040
	/ Pace	2/20/13	1555	Pace	2-21	1555

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
5.9	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: WILLIAM H. LUCAS, III

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 2/20/13

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
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Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 25, 2013

Michael Wilson
Gaia Tech
3525 Piedmont Rd NE
Bldg 6, Suite 520
Atlanta, GA 30326

RE: Project: ECI ELON FACILITY 150153.421.0
Pace Project No.: 92151416

Dear Michael Wilson:
Enclosed are the analytical results for sample(s) received by the laboratory on March 15, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jon D Bradley for
Kevin Herring
kevin.herring@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project:	ECI ELON FACILITY 150153.421.0
Pace Project No.:	92151416

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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(704)875-9092

SAMPLE SUMMARY

Project: ECI ELON FACILITY 150153.421.0
Pace Project No.: 92151416

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92151416001	**ECIE-0313-MW-16**	Water	03/13/13 19:00	03/15/13 15:35
92151416002	**ECIE-0313-DW2**	Water	03/13/13 15:30	03/15/13 15:35
92151416003	**ECIE-0313-DW2 (DUP)**	Water	03/13/13 15:35	03/15/13 15:35
92151416004	**ECIE-0313-ERB**	Water	03/13/13 15:45	03/15/13 15:35
92151416005	**TRIP BLANK**	Water	03/13/13 00:00	03/15/13 15:35

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SAMPLE ANALYTE COUNT

Project: ECI ELON FACILITY 150153.421.0
Pace Project No.: 92151416

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92151416001	**ECIE-0313-MW-16**	EPA 8260	MCK	64	PASI-C
92151416002	**ECIE-0313-DW2**	EPA 8260	MCK	64	PASI-C
92151416003	**ECIE-0313-DW2 (DUP)**	EPA 8260	MCK	64	PASI-C
92151416004	**ECIE-0313-ERB**	EPA 8260	MCK	64	PASI-C
92151416005	**TRIP BLANK**	EPA 8260	MCK	64	PASI-C

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HITS ONLY

Project: ECI ELON FACILITY 150153.421.0
Pace Project No.: 92151416

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92151416002	**ECIE-0313-DW2**					
EPA 8260	Acetone	42.7	ug/L	25.0	03/18/13 20:05	
EPA 8260	Trichloroethene	5.2	ug/L	1.0	03/18/13 20:05	
92151416003	**ECIE-0313-DW2 (DUP)**					
EPA 8260	Acetone	41.0	ug/L	25.0	03/18/13 20:21	
EPA 8260	Trichloroethene	5.1	ug/L	1.0	03/18/13 20:21	
92151416004	**ECIE-0313-ERB**					
EPA 8260	Methylene Chloride	3.0	ug/L	2.0	03/18/13 20:37	

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PROJECT NARRATIVE

Project: ECI ELON FACILITY 150153.421.0
Pace Project No.: 92151416

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: Gaia Tech
Date: March 25, 2013

General Information:
5 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: ECI ELON FACILITY 150153.421.0
Pace Project No.: 92151416

Sample: ECIE-0313-MW-16 **Lab ID: 92151416001** Collected: 03/13/13 19:00 Received: 03/15/13 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		03/18/13 19:49	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		03/18/13 19:49	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		03/18/13 19:49	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		03/18/13 19:49	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/18/13 19:49	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		03/18/13 19:49	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		03/18/13 19:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		03/18/13 19:49	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/18/13 19:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		03/18/13 19:49	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		03/18/13 19:49	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		03/18/13 19:49	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/18/13 19:49	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		03/18/13 19:49	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		03/18/13 19:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		03/18/13 19:49	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		03/18/13 19:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/18/13 19:49	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		03/18/13 19:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		03/18/13 19:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		03/18/13 19:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/18/13 19:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		03/18/13 19:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		03/18/13 19:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/18/13 19:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		03/18/13 19:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		03/18/13 19:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		03/18/13 19:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/18/13 19:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/18/13 19:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		03/18/13 19:49	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		03/18/13 19:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/18/13 19:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/18/13 19:49	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		03/18/13 19:49	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/18/13 19:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		03/18/13 19:49	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		03/18/13 19:49	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		03/18/13 19:49	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/18/13 19:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		03/18/13 19:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		03/18/13 19:49	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		03/18/13 19:49	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		03/18/13 19:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		03/18/13 19:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		03/18/13 19:49	79-34-5	

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ANALYTICAL RESULTS

Project: ECI ELON FACILITY 150153.421.0
Pace Project No.: 92151416

Sample: ECIE-0313-MW-16 **Lab ID: 92151416001** Collected: 03/13/13 19:00 Received: 03/15/13 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/18/13 19:49	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/18/13 19:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		03/18/13 19:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		03/18/13 19:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/18/13 19:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/18/13 19:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/18/13 19:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/18/13 19:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/18/13 19:49	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		03/18/13 19:49	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/18/13 19:49	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/18/13 19:49	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		03/18/13 19:49	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		03/18/13 19:49	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/18/13 19:49	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		03/18/13 19:49	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/18/13 19:49	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/18/13 19:49	2037-26-5	

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ANALYTICAL RESULTS

Project: ECI ELON FACILITY 150153.421.0
Pace Project No.: 92151416

Sample: ECIE-0313-DW2 **Lab ID: 92151416002** Collected: 03/13/13 15:30 Received: 03/15/13 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**42.7**	ug/L	25.0	10.0	1		03/18/13 20:05	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		03/18/13 20:05	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		03/18/13 20:05	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		03/18/13 20:05	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/18/13 20:05	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		03/18/13 20:05	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		03/18/13 20:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		03/18/13 20:05	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/18/13 20:05	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		03/18/13 20:05	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		03/18/13 20:05	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		03/18/13 20:05	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/18/13 20:05	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		03/18/13 20:05	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		03/18/13 20:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		03/18/13 20:05	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		03/18/13 20:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/18/13 20:05	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		03/18/13 20:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		03/18/13 20:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		03/18/13 20:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/18/13 20:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		03/18/13 20:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		03/18/13 20:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/18/13 20:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		03/18/13 20:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		03/18/13 20:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		03/18/13 20:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/18/13 20:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/18/13 20:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		03/18/13 20:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		03/18/13 20:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/18/13 20:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/18/13 20:05	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		03/18/13 20:05	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/18/13 20:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		03/18/13 20:05	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		03/18/13 20:05	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		03/18/13 20:05	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/18/13 20:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		03/18/13 20:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		03/18/13 20:05	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		03/18/13 20:05	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		03/18/13 20:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		03/18/13 20:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		03/18/13 20:05	79-34-5	

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ANALYTICAL RESULTS

Project: ECI ELON FACILITY 150153.421.0
Pace Project No.: 92151416

Sample: ECIE-0313-DW2 **Lab ID: 92151416002** Collected: 03/13/13 15:30 Received: 03/15/13 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/18/13 20:05	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/18/13 20:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		03/18/13 20:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		03/18/13 20:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/18/13 20:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/18/13 20:05	79-00-5	
Trichloroethene	**5.2**	ug/L	1.0	0.47	1		03/18/13 20:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/18/13 20:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/18/13 20:05	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		03/18/13 20:05	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/18/13 20:05	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/18/13 20:05	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		03/18/13 20:05	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		03/18/13 20:05	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/18/13 20:05	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		03/18/13 20:05	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/18/13 20:05	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/18/13 20:05	2037-26-5	

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ANALYTICAL RESULTS

Project: ECI ELON FACILITY 150153.421.0
Pace Project No.: 92151416

Sample: ECIE-0313-DW2 (DUP) **Lab ID: 92151416003** Collected: 03/13/13 15:35 Received: 03/15/13 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**41.0**	ug/L	25.0	10.0	1		03/18/13 20:21	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		03/18/13 20:21	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		03/18/13 20:21	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		03/18/13 20:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/18/13 20:21	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		03/18/13 20:21	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		03/18/13 20:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		03/18/13 20:21	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/18/13 20:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		03/18/13 20:21	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		03/18/13 20:21	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		03/18/13 20:21	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/18/13 20:21	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		03/18/13 20:21	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		03/18/13 20:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		03/18/13 20:21	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		03/18/13 20:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/18/13 20:21	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		03/18/13 20:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		03/18/13 20:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		03/18/13 20:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/18/13 20:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		03/18/13 20:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		03/18/13 20:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/18/13 20:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		03/18/13 20:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		03/18/13 20:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		03/18/13 20:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/18/13 20:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/18/13 20:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		03/18/13 20:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		03/18/13 20:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/18/13 20:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/18/13 20:21	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		03/18/13 20:21	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/18/13 20:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		03/18/13 20:21	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		03/18/13 20:21	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		03/18/13 20:21	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/18/13 20:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		03/18/13 20:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		03/18/13 20:21	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		03/18/13 20:21	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		03/18/13 20:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		03/18/13 20:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		03/18/13 20:21	79-34-5	

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ANALYTICAL RESULTS

Project: ECI ELON FACILITY 150153.421.0
Pace Project No.: 92151416

Sample: ECIE-0313-DW2 (DUP) **Lab ID: 92151416003** Collected: 03/13/13 15:35 Received: 03/15/13 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/18/13 20:21	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/18/13 20:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		03/18/13 20:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		03/18/13 20:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/18/13 20:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/18/13 20:21	79-00-5	
Trichloroethene	**5.1**	ug/L	1.0	0.47	1		03/18/13 20:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/18/13 20:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/18/13 20:21	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		03/18/13 20:21	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/18/13 20:21	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/18/13 20:21	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		03/18/13 20:21	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		03/18/13 20:21	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		03/18/13 20:21	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		03/18/13 20:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		03/18/13 20:21	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/18/13 20:21	2037-26-5	

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ANALYTICAL RESULTS

Project: ECI ELON FACILITY 150153.421.0
Pace Project No.: 92151416

Sample: ECIE-0313-ERB **Lab ID: 92151416004** Collected: 03/13/13 15:45 Received: 03/15/13 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		03/18/13 20:37	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		03/18/13 20:37	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		03/18/13 20:37	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		03/18/13 20:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/18/13 20:37	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		03/18/13 20:37	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		03/18/13 20:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		03/18/13 20:37	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/18/13 20:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		03/18/13 20:37	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		03/18/13 20:37	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		03/18/13 20:37	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/18/13 20:37	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		03/18/13 20:37	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		03/18/13 20:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		03/18/13 20:37	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		03/18/13 20:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/18/13 20:37	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		03/18/13 20:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		03/18/13 20:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		03/18/13 20:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/18/13 20:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		03/18/13 20:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		03/18/13 20:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/18/13 20:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		03/18/13 20:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		03/18/13 20:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		03/18/13 20:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/18/13 20:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/18/13 20:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		03/18/13 20:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		03/18/13 20:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/18/13 20:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/18/13 20:37	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		03/18/13 20:37	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/18/13 20:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		03/18/13 20:37	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		03/18/13 20:37	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		03/18/13 20:37	99-87-6	
Methylene Chloride	**3.0**	ug/L	2.0	0.97	1		03/18/13 20:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		03/18/13 20:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		03/18/13 20:37	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		03/18/13 20:37	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		03/18/13 20:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		03/18/13 20:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		03/18/13 20:37	79-34-5	

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ANALYTICAL RESULTS

Project: ECI ELON FACILITY 150153.421.0
Pace Project No.: 92151416

Sample: ECIE-0313-ERB **Lab ID: 92151416004** Collected: 03/13/13 15:45 Received: 03/15/13 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/18/13 20:37	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/18/13 20:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		03/18/13 20:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		03/18/13 20:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/18/13 20:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/18/13 20:37	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/18/13 20:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/18/13 20:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/18/13 20:37	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		03/18/13 20:37	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/18/13 20:37	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/18/13 20:37	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		03/18/13 20:37	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		03/18/13 20:37	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		03/18/13 20:37	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		03/18/13 20:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/18/13 20:37	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/18/13 20:37	2037-26-5	

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ANALYTICAL RESULTS

Project: ECI ELON FACILITY 150153.421.0
Pace Project No.: 92151416

Sample: TRIP BLANK **Lab ID: 92151416005** Collected: 03/13/13 00:00 Received: 03/15/13 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		03/18/13 20:53	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		03/18/13 20:53	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		03/18/13 20:53	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		03/18/13 20:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/18/13 20:53	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		03/18/13 20:53	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		03/18/13 20:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		03/18/13 20:53	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/18/13 20:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		03/18/13 20:53	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		03/18/13 20:53	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		03/18/13 20:53	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/18/13 20:53	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		03/18/13 20:53	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		03/18/13 20:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		03/18/13 20:53	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		03/18/13 20:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/18/13 20:53	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		03/18/13 20:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		03/18/13 20:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		03/18/13 20:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/18/13 20:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		03/18/13 20:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		03/18/13 20:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/18/13 20:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		03/18/13 20:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		03/18/13 20:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		03/18/13 20:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/18/13 20:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/18/13 20:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		03/18/13 20:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		03/18/13 20:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/18/13 20:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/18/13 20:53	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		03/18/13 20:53	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/18/13 20:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		03/18/13 20:53	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		03/18/13 20:53	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		03/18/13 20:53	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/18/13 20:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		03/18/13 20:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		03/18/13 20:53	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		03/18/13 20:53	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		03/18/13 20:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		03/18/13 20:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		03/18/13 20:53	79-34-5	

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ANALYTICAL RESULTS

Project: ECI ELON FACILITY 150153.421.0
Pace Project No.: 92151416

Sample: TRIP BLANK **Lab ID: 92151416005** Collected: 03/13/13 00:00 Received: 03/15/13 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/18/13 20:53	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/18/13 20:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		03/18/13 20:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		03/18/13 20:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/18/13 20:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/18/13 20:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/18/13 20:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/18/13 20:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/18/13 20:53	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		03/18/13 20:53	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/18/13 20:53	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/18/13 20:53	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		03/18/13 20:53	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		03/18/13 20:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/18/13 20:53	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		03/18/13 20:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/18/13 20:53	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/18/13 20:53	2037-26-5	

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QUALITY CONTROL DATA

Project: ECI ELON FACILITY 150153.421.0
Pace Project No.: 92151416

QC Batch: MSV/22354 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92151416001, 92151416002, 92151416003, 92151416004, 92151416005

METHOD BLANK: 940526 Matrix: Water
Associated Lab Samples: 92151416001, 92151416002, 92151416003, 92151416004, 92151416005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/18/13 19:17	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/18/13 19:17	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/18/13 19:17	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/18/13 19:17	
1,1-Dichloroethane	ug/L	ND	1.0	03/18/13 19:17	
1,1-Dichloroethene	ug/L	ND	1.0	03/18/13 19:17	
1,1-Dichloropropene	ug/L	ND	1.0	03/18/13 19:17	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/18/13 19:17	
1,2,3-Trichloropropane	ug/L	ND	1.0	03/18/13 19:17	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/18/13 19:17	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	03/18/13 19:17	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/18/13 19:17	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/18/13 19:17	
1,2-Dichloroethane	ug/L	ND	1.0	03/18/13 19:17	
1,2-Dichloropropane	ug/L	ND	1.0	03/18/13 19:17	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/18/13 19:17	
1,3-Dichloropropane	ug/L	ND	1.0	03/18/13 19:17	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/18/13 19:17	
2,2-Dichloropropane	ug/L	ND	1.0	03/18/13 19:17	
2-Butanone (MEK)	ug/L	ND	5.0	03/18/13 19:17	
2-Chlorotoluene	ug/L	ND	1.0	03/18/13 19:17	
2-Hexanone	ug/L	ND	5.0	03/18/13 19:17	
4-Chlorotoluene	ug/L	ND	1.0	03/18/13 19:17	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	03/18/13 19:17	
Acetone	ug/L	ND	25.0	03/18/13 19:17	
Benzene	ug/L	ND	1.0	03/18/13 19:17	
Bromobenzene	ug/L	ND	1.0	03/18/13 19:17	
Bromochloromethane	ug/L	ND	1.0	03/18/13 19:17	
Bromodichloromethane	ug/L	ND	1.0	03/18/13 19:17	
Bromoform	ug/L	ND	1.0	03/18/13 19:17	
Bromomethane	ug/L	ND	2.0	03/18/13 19:17	
Carbon tetrachloride	ug/L	ND	1.0	03/18/13 19:17	
Chlorobenzene	ug/L	ND	1.0	03/18/13 19:17	
Chloroethane	ug/L	ND	1.0	03/18/13 19:17	
Chloroform	ug/L	ND	1.0	03/18/13 19:17	
Chloromethane	ug/L	ND	1.0	03/18/13 19:17	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/18/13 19:17	
cis-1,3-Dichloropropene	ug/L	ND	1.0	03/18/13 19:17	
Dibromochloromethane	ug/L	ND	1.0	03/18/13 19:17	
Dibromomethane	ug/L	ND	1.0	03/18/13 19:17	
Dichlorodifluoromethane	ug/L	ND	1.0	03/18/13 19:17	
Diisopropyl ether	ug/L	ND	1.0	03/18/13 19:17	
Ethylbenzene	ug/L	ND	1.0	03/18/13 19:17	

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QUALITY CONTROL DATA

Project: ECI ELON FACILITY 150153.421.0
Pace Project No.: 92151416

METHOD BLANK: 940526 Matrix: Water

Associated Lab Samples: 92151416001, 92151416002, 92151416003, 92151416004, 92151416005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	03/18/13 19:17	
m&p-Xylene	ug/L	ND	2.0	03/18/13 19:17	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/18/13 19:17	
Methylene Chloride	ug/L	ND	2.0	03/18/13 19:17	
Naphthalene	ug/L	ND	1.0	03/18/13 19:17	
o-Xylene	ug/L	ND	1.0	03/18/13 19:17	
p-Isopropyltoluene	ug/L	ND	1.0	03/18/13 19:17	
Styrene	ug/L	ND	1.0	03/18/13 19:17	
Tetrachloroethene	ug/L	ND	1.0	03/18/13 19:17	
Toluene	ug/L	ND	1.0	03/18/13 19:17	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/18/13 19:17	
trans-1,3-Dichloropropene	ug/L	ND	1.0	03/18/13 19:17	
Trichloroethene	ug/L	ND	1.0	03/18/13 19:17	
Trichlorofluoromethane	ug/L	ND	1.0	03/18/13 19:17	
Vinyl acetate	ug/L	ND	2.0	03/18/13 19:17	
Vinyl chloride	ug/L	ND	1.0	03/18/13 19:17	
Xylene (Total)	ug/L	ND	2.0	03/18/13 19:17	
1,2-Dichloroethane-d4 (S)	%	100	70-130	03/18/13 19:17	
4-Bromofluorobenzene (S)	%	99	70-130	03/18/13 19:17	
Dibromofluoromethane (S)	%	98	70-130	03/18/13 19:17	
Toluene-d8 (S)	%	99	70-130	03/18/13 19:17	

LABORATORY CONTROL SAMPLE: 940527

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.2	106	70-130	
1,1,1-Trichloroethane	ug/L	50	52.8	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.7	103	70-130	
1,1,2-Trichloroethane	ug/L	50	55.5	111	70-130	
1,1-Dichloroethane	ug/L	50	49.3	99	70-130	
1,1-Dichloroethene	ug/L	50	50.7	101	70-132	
1,1-Dichloropropene	ug/L	50	53.3	107	70-130	
1,2,3-Trichlorobenzene	ug/L	50	55.8	112	70-135	
1,2,3-Trichloropropane	ug/L	50	52.9	106	70-130	
1,2,4-Trichlorobenzene	ug/L	50	58.2	116	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	55.6	111	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	53.4	107	70-130	
1,2-Dichlorobenzene	ug/L	50	53.5	107	70-130	
1,2-Dichloroethane	ug/L	50	48.9	98	70-130	
1,2-Dichloropropane	ug/L	50	50.2	100	70-130	
1,3-Dichlorobenzene	ug/L	50	53.1	106	70-130	
1,3-Dichloropropane	ug/L	50	53.0	106	70-130	
1,4-Dichlorobenzene	ug/L	50	52.6	105	70-130	
2,2-Dichloropropane	ug/L	50	50.5	101	58-145	
2-Butanone (MEK)	ug/L	100	97.0	97	70-145	

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QUALITY CONTROL DATA

Project: ECI ELON FACILITY 150153.421.0
Pace Project No.: 92151416

LABORATORY CONTROL SAMPLE: 940527

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chlorotoluene	ug/L	50	54.5	109	70-130	
2-Hexanone	ug/L	100	107	107	70-144	
4-Chlorotoluene	ug/L	50	54.0	108	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	70-140	
Acetone	ug/L	100	98.8	99	50-175	
Benzene	ug/L	50	53.6	107	70-130	
Bromobenzene	ug/L	50	53.4	107	70-130	
Bromochloromethane	ug/L	50	51.7	103	70-130	
Bromodichloromethane	ug/L	50	52.1	104	70-130	
Bromoform	ug/L	50	48.5	97	70-130	
Bromomethane	ug/L	50	46.6	93	54-130	
Carbon tetrachloride	ug/L	50	52.8	106	70-132	
Chlorobenzene	ug/L	50	53.3	107	70-130	
Chloroethane	ug/L	50	52.2	104	64-134	
Chloroform	ug/L	50	52.1	104	70-130	
Chloromethane	ug/L	50	49.6	99	64-130	
cis-1,2-Dichloroethene	ug/L	50	48.0	96	70-131	
cis-1,3-Dichloropropene	ug/L	50	48.2	96	70-130	
Dibromochloromethane	ug/L	50	54.1	108	70-130	
Dibromomethane	ug/L	50	52.8	106	70-131	
Dichlorodifluoromethane	ug/L	50	48.3	97	56-130	
Diisopropyl ether	ug/L	50	49.7	99	70-130	
Ethylbenzene	ug/L	50	53.8	108	70-130	
Hexachloro-1,3-butadiene	ug/L	50	60.2	120	70-130	
m&p-Xylene	ug/L	100	109	109	70-130	
Methyl-tert-butyl ether	ug/L	50	52.5	105	70-130	
Methylene Chloride	ug/L	50	47.5	95	63-130	
Naphthalene	ug/L	50	56.8	114	70-138	
o-Xylene	ug/L	50	53.6	107	70-130	
p-Isopropyltoluene	ug/L	50	57.8	116	70-130	
Styrene	ug/L	50	49.7	99	70-130	
Tetrachloroethene	ug/L	50	54.5	109	70-130	
Toluene	ug/L	50	52.5	105	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.7	97	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.0	94	70-132	
Trichloroethene	ug/L	50	52.3	105	70-130	
Trichlorofluoromethane	ug/L	50	47.5	95	62-133	
Vinyl acetate	ug/L	100	104	104	66-157	
Vinyl chloride	ug/L	50	48.4	97	69-130	
Xylene (Total)	ug/L	150	163	109	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			97	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: ECI ELON FACILITY 150153.421.0
Pace Project No.: 92151416

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 940528 940529

Parameter	Units	92151416001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	63.6	61.7	127	123	70-166	3	30	
Benzene	ug/L	ND	50	50	55.7	55.4	111	111	70-148	1	30	
Chlorobenzene	ug/L	ND	50	50	70.5	69.9	141	140	70-146	1	30	
Toluene	ug/L	ND	50	50	67.2	66.3	134	133	70-155	1	30	
Trichloroethene	ug/L	ND	50	50	67.7	67.5	135	135	69-151	0	30	
1,2-Dichloroethane-d4 (S)	%						96	98	70-130			
4-Bromofluorobenzene (S)	%						100	100	70-130			
Dibromofluoromethane (S)	%						95	96	70-130			
Toluene-d8 (S)	%						96	97	70-130			

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QUALIFIERS

Project: ECI ELON FACILITY 150153.421.0
Pace Project No.: 92151416

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ECI ELON FACILITY 150153.421.0
Pace Project No.: 92151416

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92151416001	**ECIE-0313-MW-16**	EPA 8260	MSV/22354		
92151416002	**ECIE-0313-DW2**	EPA 8260	MSV/22354		
92151416003	**ECIE-0313-DW2 (DUP)**	EPA 8260	MSV/22354		
92151416004	**ECIE-0313-ERB**	EPA 8260	MSV/22354		
92151416005	**TRIP BLANK**	EPA 8260	MSV/22354		

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TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92151416001
Operator : MCK
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 18-MAR-2013 19:49

Client SDG: 92151416
Client Smp ID: ECIE-0313-MW-16
Sample Date: 13-MAR-2013
Sample Point:
Date Received:15-MAR-2013 00:00
Level: LOW

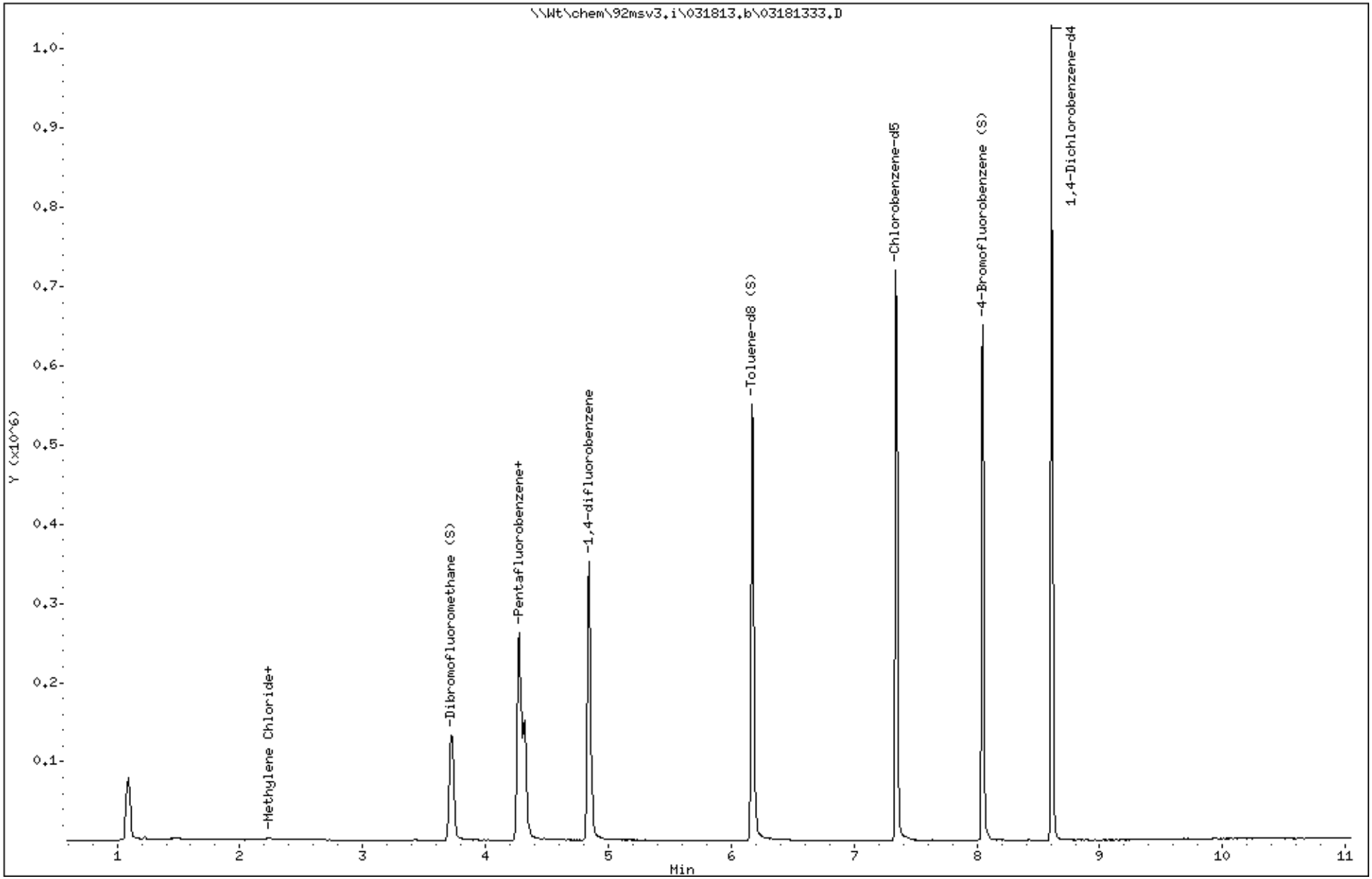
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\Wt\chem\92msv3.i\031813.b\03181333.D
Date : 18-MAR-2013 19:49
Client ID: ECIE-0313-MW-16
Sample Info: 031813,8260WLL,MCK,1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 92msv3.i
Operator: MCK
Column diameter: 0.18



Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92151416002
Operator : MCK
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 18-MAR-2013 20:05

Client SDG: 92151416
Client Smp ID: ECIE-0313-DW2
Sample Date: 13-MAR-2013
Sample Point:
Date Received:15-MAR-2013 00:00
Level: LOW

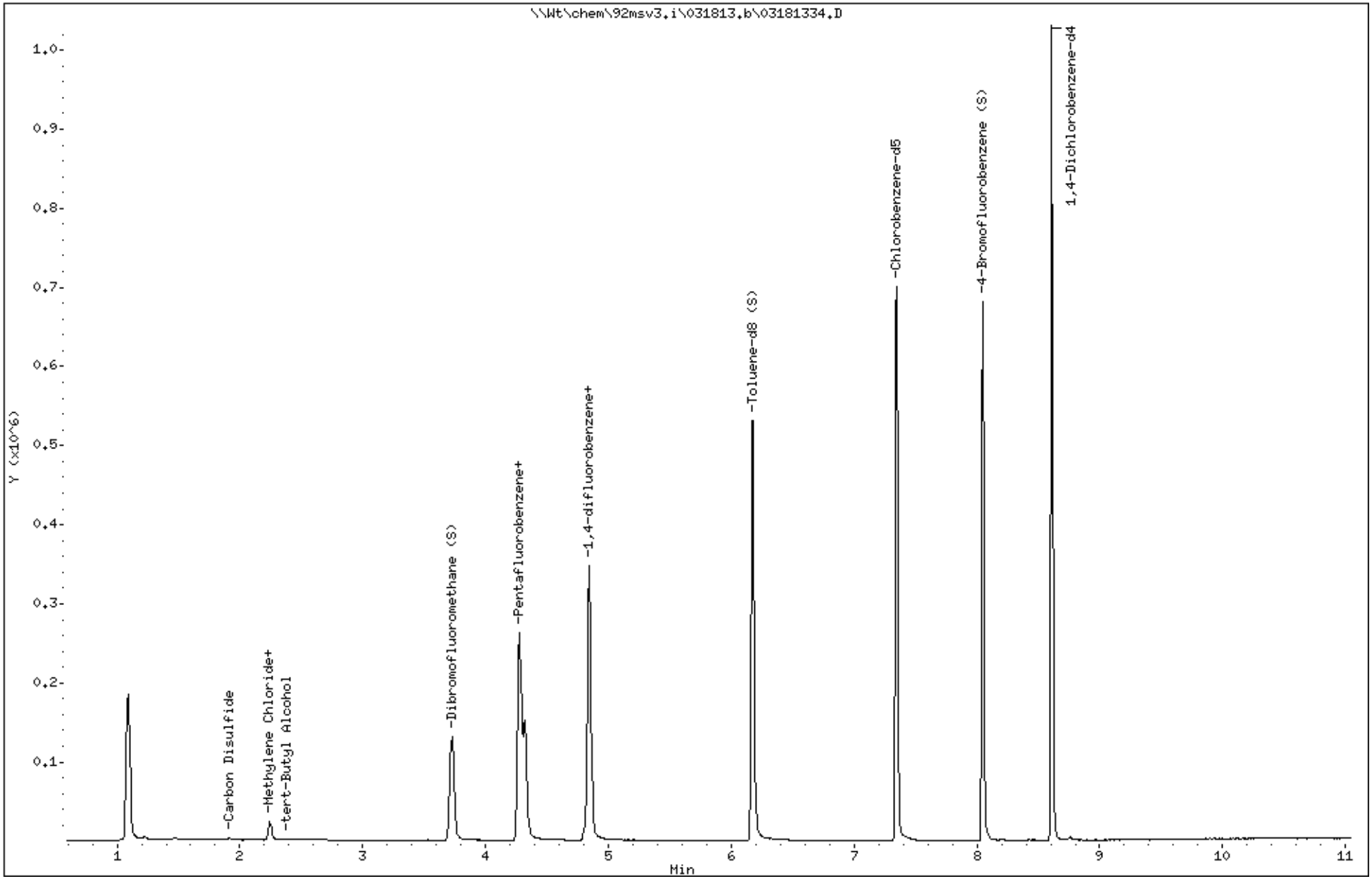
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\Wt\chem\92msv3.i\031813.b\03181334.D
Date : 18-MAR-2013 20:05
Client ID: ECIE-0313-DW2
Sample Info: 031813,8260WLL,MCK,1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 92msv3.i
Operator: MCK
Column diameter: 0.18



Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92151416003
Operator : MCK
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 18-MAR-2013 20:21

Client SDG: 92151416
Client Smp ID: ECIE-0313-DW2 (DUP
Sample Date: 13-MAR-2013
Sample Point:
Date Received:15-MAR-2013 00:00
Level: LOW

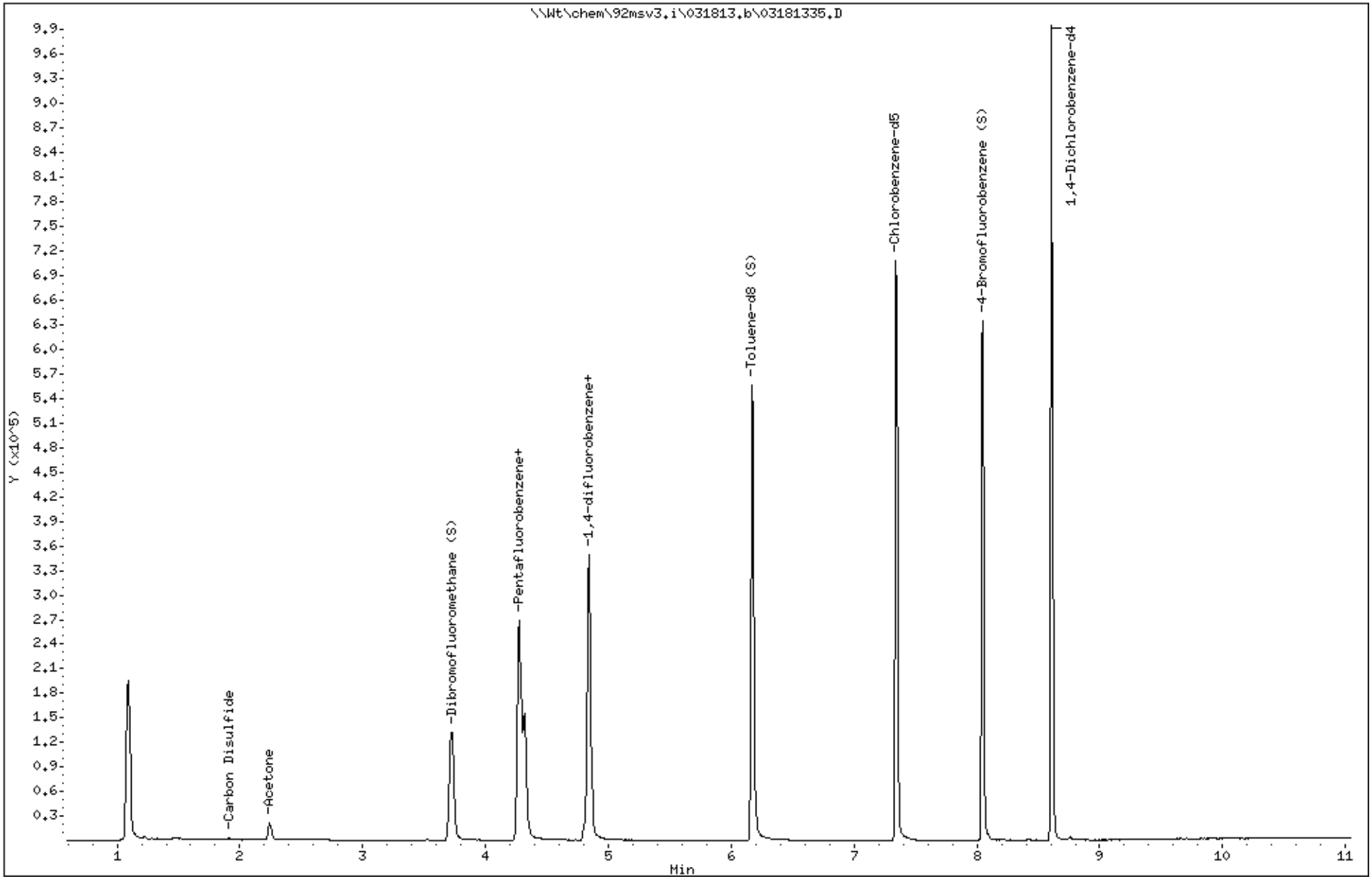
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\Wt\chem\92msv3.i\031813.b\03181335.D
Date : 18-MAR-2013 20:21
Client ID: ECIE-0313-DW2 (DUP
Sample Info: 031813,8260WLL,MCK,1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 92msv3.i
Operator: MCK
Column diameter: 0.18



Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92151416004
Operator : MCK
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 18-MAR-2013 20:37

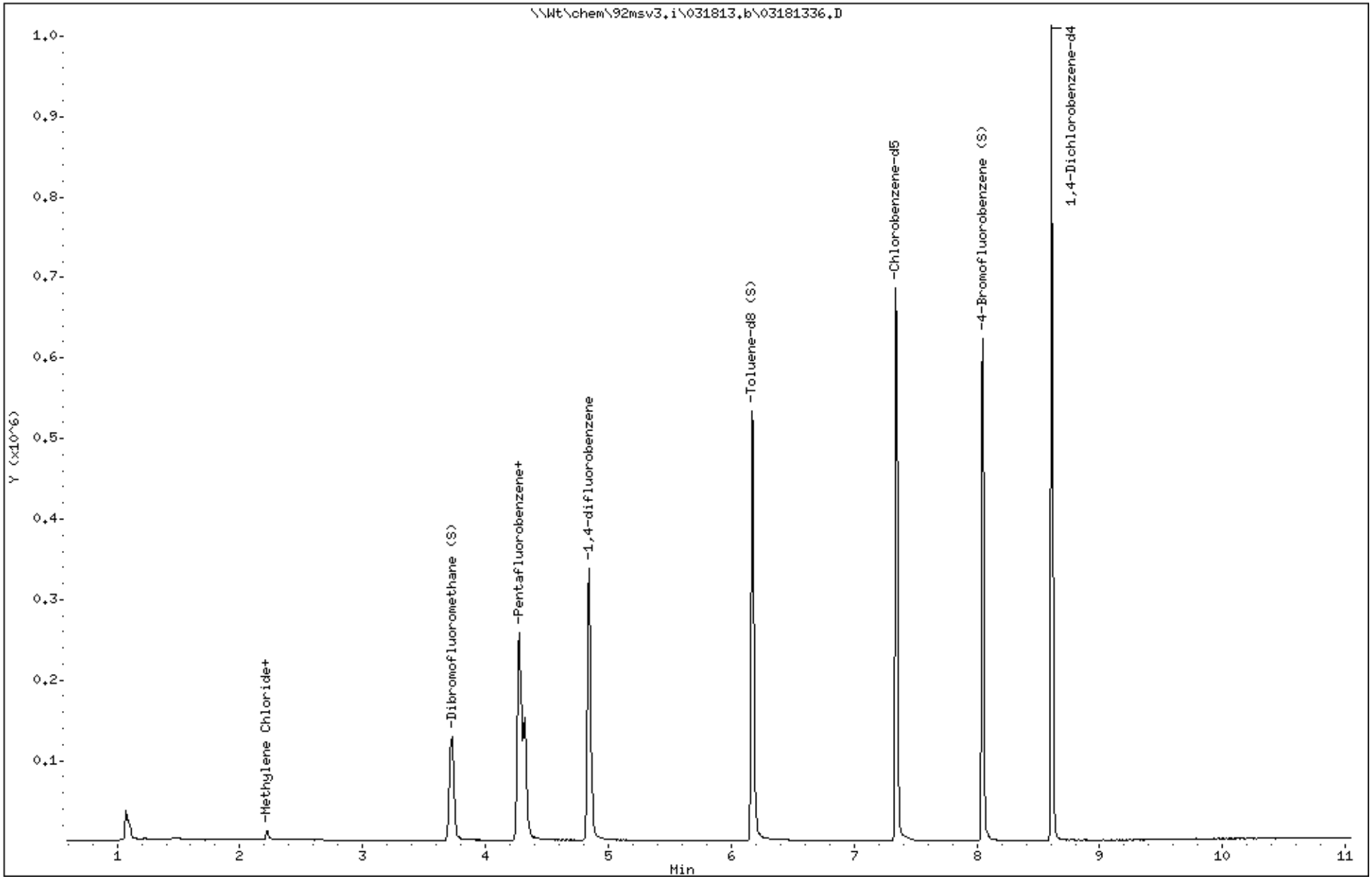
Client SDG: 92151416
Client Smp ID: ECIE-0313-ERB
Sample Date: 13-MAR-2013
Sample Point:
Date Received:15-MAR-2013 00:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\Wt\chem\92msv3.i\031813.b\03181336.D
Date : 18-MAR-2013 20:37
Client ID: ECIE-0313-ERB
Instrument: 92msv3.i
Sample Info: 031813,8260WLL,MCK,1
Purge Volume: 5.0
Operator: MCK
Column phase: RTX-VMS
Column diameter: 0.18



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TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Gaia Tech
Lab Smp Id: 92151416005
Operator : MCK
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 18-MAR-2013 20:53

Client SDG: 92151416
Client Smp ID: TRIP BLANK
Sample Date: 13-MAR-2013
Sample Point:
Date Received:15-MAR-2013 00:00
Level: LOW

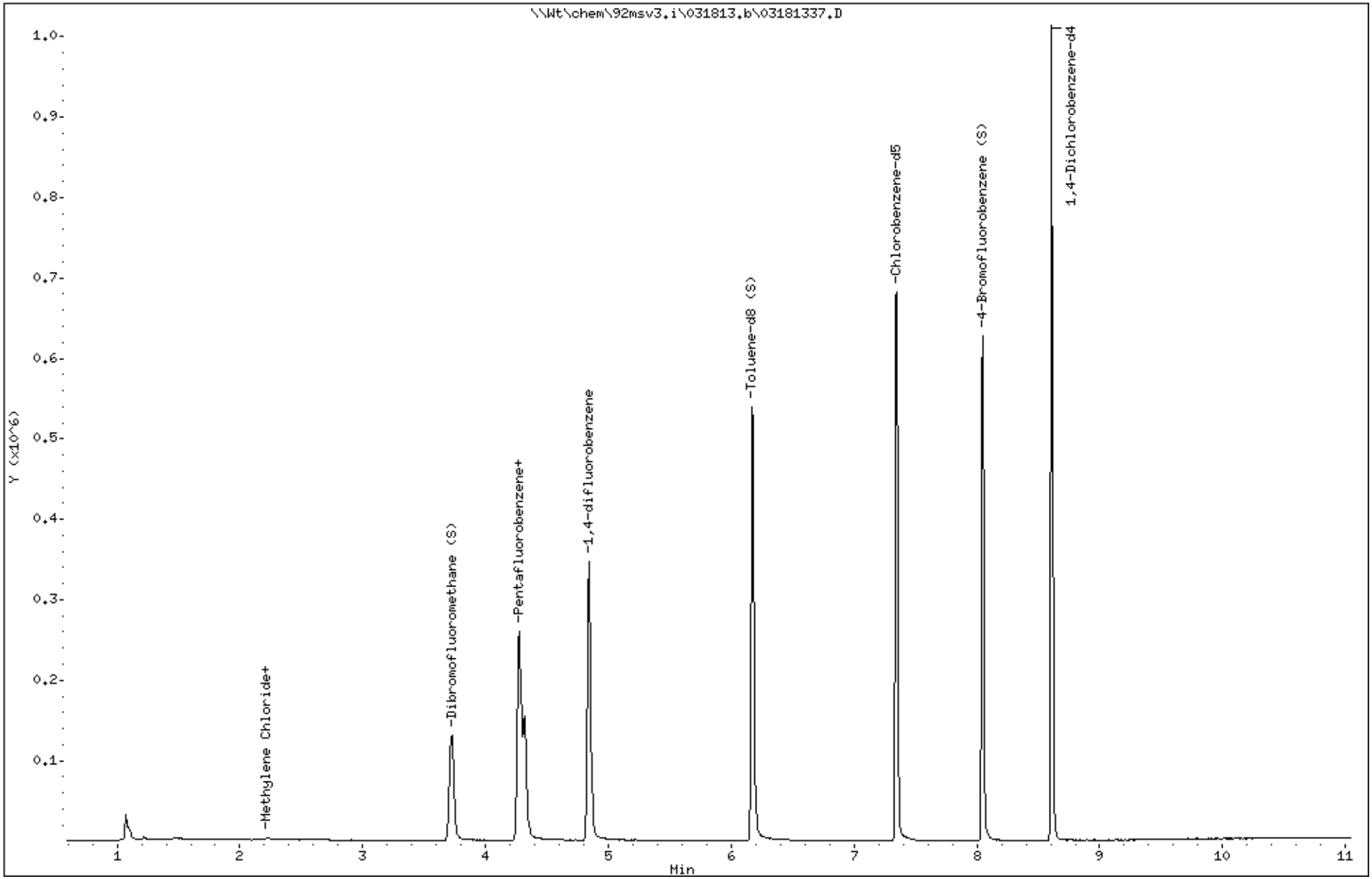
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\Wt\chem\92msv3.i\031813.b\03181337.D
Date : 18-MAR-2013 20:53
Client ID: TRIP BLANK
Sample Info: 031813,8260WLL,MCK,1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 92msv3.i
Operator: MCK
Column diameter: 0.18



Pace Analytical	Sample Condition Upon Receipt (SCUR)	Page 1 of 2
	Document Number: F-CHR-CS-03-rev.10	Issuing Authority: Pace Huntersville Quality Office

Client Name: Gaia Tech

Where Received: ☒ Huntersville ☐ Asheville ☐ Eden ☐ Raleigh

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1101 T1102 **Type of Ice:** Wet Blue None ☒ Samples on ice, cooling process has begun

Temp Correction Factor **T1101**: No Correction **T1102**: No Correction

Corrected Cooler Temp.: 2.0 C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: GA 03/15/13

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☒Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	15.
Trip Blank Present:	☒Yes ☐No ☐N/A	16. 03/15/13
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [signature] Date: 3/15/13

SRF Review: [signature] Date: 3/18/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Place label here

WO#: 92151416

92151416

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:

Company:	GaiaTech
Address:	3525 Piedmont Road NE Building 6, Suite 520
	Atlanta, GA 30305
Email To:	Mike Wilson and Will Lucas
Phone: (404) 812-0001	Fax: (404) 812-1992
Requested Due Date/TAT:	5 day TAT

Section B Required Project Information:

Report To:	Michael Wilson mwilson@gaiatech.com
Copy To:	Will Lucas wlucas@gaiatech.com
Purchase Order No.:	150153.421.00
Project Name:	ECI Elon Facility
Project Number:	150153.421.00

Section C Invoice Information:

Attention:	Michael Wilson
Company Name:	GaiaTech
Address:	Same as report address
Pace Quote Reference:	
Pace Project Manager:	Kevin Herring / Allison Cantrell
Pace Profile #:	5513-2

REGULATORY AGENCY

☐ Chec S ☐ GROUND WATER ☐ DRINKING WATER
☐ Chec ☐ RCRA ☐ OTHER _____

Site Location STATE: NC

Requested Analysis Filtered (Y/N)

Section D Client Information — Required

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOC 8260+TICs	~~VOC METALS~~	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92151416
1	ECIE-0313-MW16	WT	G	3/13/13	1900		3				3					X			001
2	ECIE-0313-DW2	WT	G	3/13/13	1530		3				3					X			002 MS/MSD
3	ECIE-0313-DW2 (DUP)	WT	G	3/13/13	1535		3				3					X			003 QA/QC Field Duplicate
4		~~WT~~	~~G~~																004
5	ECIE-0313-ERB	WT	G	3/13/13	1545		3				3					X			005 QA/QC Equipment Rinsate/Blank
6	TRIP BLANK	WT	G	NA	NA		2	1			1					X			QA/QC Trip Blank
7																			
8																			
9																			
10																			
11																			
12																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	GAIA TECH	3/15/13	1050		3/15/13	1052				
		3/15/13	1535		3/15/13	1535	2.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: William H. Lucas III

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 3/15/13

Appendix H
Quality Assurance/Quality Control Plan

QUALITY ASSURANCE/QUALITY CONTROL PLAN

Engineered Controls International, LLC
Elon Facility
100 Rego Drive, Elon, North Carolina

QA is defined as an integrative program designed to assure reliability of monitoring and measurement data. QC is defined as the routine application of procedures for obtaining prescribed performance standards for monitoring, measuring, and assessment data.

Data Quality Objectives

The quality assurance objectives associated with the project sampling are in place to ensure that the data collected during all phases of work are of sufficient quality to support decisions regarding delineation of soil and groundwater. Quality Assurance (QA) is established to assure appropriate equipment and methods are used. Data Quality Objectives (DQOs) are used to set parameters and guidelines to evaluate data with respect to precision, accuracy, representativeness, completeness and comparability. Specific quality control (QC) measures are developed for both field and laboratory procedures to help assure data quality falls within these parameters and guidelines in order to meet the DQOs.

Quality Control Samples

Quality control samples will be collected and field equipment will be calibrated throughout the field activities. Quality control samples will include trip blanks, equipment blanks for reusable equipment, and duplicate samples that will be collected during the sampling events.

Trip blanks will be prepared and provided by the laboratory prior to the sampling events. Trip blanks are to be stored with sample containers. They shall be packaged for shipment with the other sample containers for laboratory analysis. Trip blanks are not to be opened at any time by field personnel. Trip blanks are to be provided for each shipment of samples collected. The laboratory-prepared trip blanks are intended as a check on the occurrence of cross- contamination that may occur as a result of field handling or laboratory handling procedures. One trip blank for VOC analysis will be supplied for each cooler containing VOC samples.

Equipment blanks will be collected as a check for cross-contamination between samples due to incomplete decontamination procedures. Equipment blanks shall be prepared by rinsing field-cleaned equipment with deionized water and collecting the rinse water in a sample container. An equipment blank shall be prepared to verify the adequacy of decontamination procedures during the sampling events. One equipment blank sample will be prepared per reusable sampling tool, per every analysis, per 10 samples.

Field duplicate samples will be collected as a check on the laboratory's accuracy and precision. Duplicate samples shall be prepared by placing sample material collected simultaneously from the same source under identical conditions into two separate sample container sets. A duplicate sample will be collected during the sampling events. Duplicates will be collected at a rate of one per every 15 samples. Relative percent difference (RPD) between field duplicate samples will be evaluated against standard RPD criteria.

Duplicate Sample Preparation

Duplicate samples for soil analysis (other than VOCs) will be homogenized prior to placement in laboratory containers. Homogenization will be performed by mixing the soil sample in a stainless steel bowl and then distributing samples into their respective laboratory-provided containers. Samples for VOCs will be placed directly into containers without homogenization to prevent volatilization.

Duplicate samples for groundwater samples will be acquired at the same time the actual sample is collected. VOC samples will be placed in laboratory-supplied bottles until full and then sealed. Groundwater samples for other parameters will be distributed among containers during the filling process until all are full.

Field Cleaning Procedures for Sample Contacting Equipment

Sample contacting equipment such as split-barrel samplers, bailers, scoops, trowels, etc. shall be decontaminated in the field using the following procedure.

1. Clean with tap water and laboratory detergent using a brush if necessary to remove particulate matter and surface film;
2. Rinse thoroughly with tap water;
3. Rinse thoroughly with deionized/distilled water;
4. Rinse twice with solvent (isopropanol unless otherwise noted);

5. Rinse thoroughly with organic-free water and allow to air dry as long as possible.

If organic-free water is not available, allow equipment to air dry as long as possible.

Sample Identification

In instances where samples must be collected for laboratory analysis or evaluation, documentation of the sampling event will be included in the field notebook and on the appropriate laboratory paperwork. Sample labels will be attached to or affixed to each sample container. Labeling shall be performed with waterproof ink. The following information must be included on the sample container:

- Project Number or other identifying reference;
- Field Identification or Sample Station Number;
- Date and time of sample collection;
- Depth of sample location;
- Initials of sampler;
- Preservatives added;
- Analyses to be performed; and
- Relevant comments, if applicable (highly toxic, odor, reactive, etc.)

Chain-of-Custody

Chain-of-Custody forms shall be prepared to document the transfer of possession of samples. Standard Chain-of-Custody forms will be used for all sample shipments. The following information is required to complete the Chain-of-Custody:

- Project number and site location;
- Name and telephone number of individual completing the Chain-of-Custody;
- Identification, date, time, grab or composite, type (water, liquid, oil, solid), number of containers, analysis to be performed and relevant remarks for each sample;
- Comments such as packing and shipping information; and

- Signature, date and time of personnel relinquishing samples.

Sample Custody

Labels and sample containers of adequate number and size containing required preservatives shall be provided by the contract laboratory in addition to ice chests for storage and transport of samples. Sample containers shall generally be filled leaving a small amount of headspace. Samples for volatile organic compound analysis, however, shall be filled completely with no headspace remaining. Care should be taken to keep soil or other materials away from container threads so that an airtight seal can be achieved.

After collection, sample handling shall be minimized. Immediately after filling the sample container, the sample container shall be securely capped and labeled. Containers shall be placed inside plastic Zip-lock® bags and wrapped with packaging material if appropriate to reduce the potential for container damage during shipping. Containers shall be stored on ice immediately after collection and labeling, and shall be shipped in ice chests to the receiving laboratory with adequate ice to maintain appropriate temperature. Ice chests shall be secured with packaging tape and include custody seals. The receiving laboratory should be consulted about sample shipping and delivery arrangements so that sample holding times will not be exceeded.

Sample containers filled with heavily contaminated material should be placed immediately into a Zip-lock® bag after collection, preservation and identification. Samples with suspected heavy contamination shall be shipped separately from trace and ambient samples when practicable.

Samples must be maintained in a secure manner to maintain control over management of the sample conditions and to avoid tampering, vandalism and other negative effects. Samples are considered secure if one of the following applies:

- They are in the hands of the project team or transferee, such as Federal Express;
- They are in clear view of the project team or the transferee;
- The project team or transferee secured them in a manner to prevent obvious tampering (i.e., locked truck, car, storage cabinet); or
- They are placed in a designated secure area.

Calibration of Equipment

Field equipment requiring calibration includes photo-ionization detectors (PID); organic vapor analyzers (OVA); flame ionization detectors (FID), portable gas chromatographs; and other meters. Calibration procedures are generally specific to each model and are not included in this document. Calibration shall be performed per the manufacturer's instructions and recommended schedule.

Appendix I
Health and Safety Plan

LEVEL 2 WARN

HEALTH AND SAFETY PLAN

GMS Project # 0235393

This Level 2 Work Activity Risk Assessment (WARN) Health & Safety Plan (HASP) is intended to provide health and safety guidelines for project field work meeting ONE OR MORE OF the following criteria:

- **Some likelihood of physical and/or chemical hazard exposure (e.g., sampling)**
- **Number of job tasks is five or greater**
- **Use of subcontractors**
- **Fieldwork is being performed on an active or abandoned mining site**
- **"High-hazard" work to be performed, including but not limited to:**
  - **Excavations and trenching**
  - **Confined Spaces**
  - **Hot Work**
  - **Subsurface Clearance *(must complete and attach Subsurface Clearance Project Plan)***
  - **Hazardous Energy Control Operations**
  - **Work at heights**
  - **Overhead Utilities/Proximity Hazards**
  - **Lifting Operations**
  - **Construction**
  - **Decommissioning, Decontamination and Demolition (DDD) Operations**
  - **Injection Well Operations**

If NONE of the above applies, an e-mail or Level 1 HASP template may be used. For more complex sites with significant client health and safety requirements, the project team may consider use of a long-form Level 3 WARN HASP.

This HASP should be developed with input from the project team, and reviewed with all ERM project personnel (including subcontractors). A signed copy of the HASP must be maintained at the project site during work and in the project files.

H&S Team review is required for the Level 2 WARN HASP. This HASP must be reviewed by the Project Manager and Partner-in-Charge (PIC) and updated as warranted to address changes in scope, hazards present, project personnel, etc. At a minimum, HASPs must be reviewed annually or if the scope of work changes. Updated HASPs should also be sent to the H&S Team and PIC for approval.

Administrative Information **This document has been developed for the sole use of ERM staff. Subcontractors and other project participants must develop their own HASP.** **This document is valid for a maximum time period of one year after initial completion. This document must be reviewed if the scope of work or nature of site hazards changes and updated as warranted.** **All on-site personnel must be appropriately trained and qualified for the planned scope of work to be performed.**	Site Name and Location: Engineered Controls International, Inc., - Elon, NC	
	Client Contact and Phone: Jim McCandies 336-449-7707	
	Project Name: ECI-Elon	
	Health & Safety Plan Date: 2/11/14	Revision Number and Date: 1.0
	Field Work Start Date: 4/30/14	Anticipated Field Work End Date 2/14/14
	Project Manager (*responsible for implementing the site health and safety program on this project*) Lane Dorman	Partner In Charge (*responsible for overall site health and safety performance on this project).* Thomas Wilson
	Field Safety Officer (*responsible for all health & safety activities, recordkeeping and delegation of duties to any other project team members*) Greg Kanellis (Alternate: Tommy Fisher)	Additional ERM personnel on site Tom Naumann Tommy Fisher Chris Means Rob Laumann
H&S Team Review	Review Date R0: 2-12-2014, R1: 4-7-2014	Signature Donald Hall, Rob Laumann
Site Setting **Include relevant background information regarding the site, such as location, size, type of facility, topography, weather, infrastructure, security, previous site use, etc. Describe nature and extent of any soil/air/water/groundwater contamination.** **Describe any other aspects of the site that may potentially affect the health, safety, or security of on-site personnel.**	Site: This active facility has a TCE plume underneath the building. Past sampling results of indoor air indicated various volatile organic compounds (VOC) including TCE were detected between the collective cancer risk screening values of 1.0E-06 and 1.0E-04 and within a Hazard Index of 1. TCE was detected above the collective cancer risk screening value of 1.0E-04 or above the Hazard Index of 1 at select locations during the most recent (March 2013) sampling event.	

Project Background and Scope of Work **Include list of tasks to be completed by ERM personnel during this project, and a separate list of tasks to be completed by any subcontractors at the site.** **A site-specific Job Hazard Analysis (JHA) must be completed for each task to be performed. Subcontractors must provide their own HASP. Subcontractors must provide JHAs for each task they will perform for ERM review.** **JHA template and reference/example JHAs for more common tasks can be found at:** **Americas H&S Page - JHAs**	ERM Scope of Work: ***Air sampling***: Mobilize to site. Set up summa canisters to collect indoor air samples over an 8-hour time period. Periodically check pressure of summa canister. Once sampling is complete, close the summa canister and ship to the lab. ***Water sampling***: Mob to site. Set up sample equipment, purge groundwater, collect sample, repeat as necessary, ship samples. ***Soil borings***: Mob to site, provide oversight for drilling subcontractors (subcontractors are not yet determined as of 2/11/14), collect soil samples from split-spoons, package soil samples, ship to lab. Subcontractor(s) Scope of Work: Use DPT (Direct Push Technology) to obtain split-spoon samples. Prior to drilling use a subcontractor for utility locating.
	Subcontractor(s) to be used: — Has subcontractor been approved (PICS or other local approval)? Utility Locator: To be determined based upon availability — ☐ Y ☐ N Driller: To be determined based upon availability — ☐ Y ☐ N ☐ Y ☐ N ☐ Y ☐ N ☐ Y ☐ N
Site/Project General Information *** Complete and attach the appropriate Risk Assessment checklist.**	**Site Type (check all applicable boxes)** ☐ Remote Site* ☐ Inactive Facility* ☒ Hazardous waste release site (HAZWOPER) ☐ Railroad ☒ Industrial ☐ Residential ☐ Unsecured ☐ Coastal / Offshore (on or near water) ☐ Other (specify)

Safe Work Practices	Main Site Hazards (check all applicable boxes)			
Place a checkmark by applicable site hazards. **Adequate control measures for all checked hazards must be included in site-specific JHAs, which should be attached to the HASP** **** High hazard work requiring H&S team coordination (additional control measures required beyond JHA)** ***** Permit-required high hazard work, requiring safety team coordination and ERM or equivalent client-required permit to be completed** **More detailed guidance on specific safety topics can be found in the Health & Safety Guidance Documents Section on the Americas Safety Page on Minerva.**	☒ Natural Hazards (Plants, Insects Animals)	☒ Organic Chemicals	☐ Inorganic Chemicals	☐ Material Handling Equipment in Use*
	☐ Journey Management	☐ Overexertion / Fatigue	☐ Line Breaking***	☐ Extended Shifts (>14 hrs + driving)
	☐ Compressed Gas	☐ Asbestos	☐ High Noise (>85 dBA)	☐ Respirable Particles
	☐ Work at Heights > feet (1.2 m)**	☒ Extreme Weather	☐ Hand/Portable Power Tools	☐ Non-Ionizing Radiation
	☐ Use of Blasting Materials or Explosives**	☐ Confined Space Entry***	☐ ASTs/USTs	☒ Buried/Overhead Utilities and Subsurface Clearance***
	☐ Slip/Trip/Fall	☐ Forklift and Industrial Truck Use**	☐ Scissor Lift / Cherry Picker Use*	☐ Ergonomics / Manual Lifting
	☐ Scaffold Use	☐ Portable Ladders	☐ Welding or Hot Work***	☐ Construction**
	☐ Excavations and Trenching***	☐ All-Terrain Vehicle	☐ Helicopter Transportation	☐ Surface/Underground Mines
	☐ Control of Hazardous Energy***	☐ Working on or over water	☐ Working in or near surface waters (lakes/rivers)	☐ Underwater Diving**
	☐ Hazard Communication	☐ Medical Services and First Aid	☐ Airborne Contaminants	☐ Critical Lifting***
	☐ Chemical mixing and injection	☐ Unexploded Ordinance / Munitions and Explosives of Concern (UXO/MEC)**	☒ Personal Protective Equipment (PPE)	☐ Respiratory Protection
	☐ Travel to Medium/High Risk Locations**	☐ Drum Handling	☐ Protection by Armed Security Forces**	☐ Non-Standard Shifts (e.g., night work)
	☐ **Other (specify)**	☐ **Other(specify)**	☐ **Other(specify)**	☐ **Other(specify)**

Chemical Products Used or Stored Onsite	
For each chemical product identified, a Safety Data Sheet (SDS) or Chemical Safety Data Card (CSDC) must be attached to this HASP. **SDS/CSDS for many common chemicals may be found on the Americas Safety Page on Minerva.**	☒ Alconox or Liquinox* ☐ Hydrochloric acid (HCl)* ☐ Nitric acid (HNO_3)* ☐ Sodium hydroxide (NaOH)* ☐ Other (specify) ☐ Calibration gas (Methane) ☐ Calibration gas (Isobutylene) ☐ Calibration gas (Pentane) ☐ Calibration gas (4-gas mixture) ☐ Calibration gas (zero air) ☐ Other (specify) ☐ Isopropyl Alcohol* ☐ Household bleach (NaOCl)* ☐ Sulfuric acid (H_2SO_4)* ☐ Hexane ☐ Other (specify) ***NOTE: Eyewash solution must be readily available on ALL project sites where materials are used or stored that pose a risk of getting into the eyes from splashes / airborne dust/debris, etc., including sample preservatives. The eyewash unit – stationary or portable – must be large enough to provide at least 15 minutes of eye flushing.**
Chemicals of Concern **In the section to the right, check any chemicals present onsite in any media (air, soil, water), or check "No ERM exposure to these".** **These chemicals include OSHA-regulated potential occupational carcinogens (29 CFR 1910.1003-1910.1016) as well as those chemicals for which OSHA has established specific respiratory protection requirements (29 CFR 1910.134)** **If any of these chemicals are present on site, contact your safety team member for guidance. Then, describe additional protective measures to be taken for boxes checked.**	☐ Friable Asbestos ☐ 3,3'-Dichlorobenzidine ☐ Benzidine ☐ beta-Propiolactone ☐ N-Nitrosomethylamine ☐ Lead ☐ Benzene ☐ Acrylonitrile ☐ Methylenedianiline ☐ 4-Nitrobiphenyl ☒ **No ERM exposure to these** ☐ alpha-Napthylamine ☐ bis-Chloromethyl ether ☐ 4-Aminodiphenyl ☐ 2-Acetylaminoflourene ☐ Vinyl chloride ☐ Chromium (VI) ☐ Coke oven emissions ☐ Ethylene oxide ☐ 1,3-Butadiene ☐ Methyl chromoethyl ether ☐ beta-Napthylamine ☐ Ethyleneimine ☐ 4-Dimethylaminoazobenzene ☐ Inorganic arsenic ☐ Cadmium ☐ 1,2-Dibromo-3-chloropropane ☐ Formaldehyde ☐ Methylene chloride Additional measures to be taken based on associated chemical hazard(s):

The following section must be filled out completely for all chemicals (suspected or confirmed) present in site media (soil, air, water). Attach an SDS for each chemical.

Materials Present or Suspected at Site	Highest Reported Concentration (ug/m^3)	Exposure Limit (ppm)	IDLH Level (ppm)	Primary Hazards of the Material (explosive, flammable, corrosive, toxic, volatile, radioactive, biohazard, oxidizer, or other)	Symptoms and Effects of Acute Exposure	Ionization Potential (eV)	Respirator Cartridge Type	Respirator Cartridge Replacement Schedule
PCE	416 ug/m^3	PEL = 100 REL = N/A TLV = 25 Other= Skin Hazard ☐	150	Toxic	Chronic associations with bladder cancer			
TCE	355.9 ug/m^3	PEL = 100 REL = 25ppm (10hr TWA) TLV = 10 Other= Skin Hazard ☐	1,000	Toxic	At 1000 ppm for 2 hours: decrements in visual perception and motor skills			
Acetone	116.1	PEL = 1000 REL = 250 TLV = 500 Other= Skin Hazard ☐						
2-Butanone	4.9	PEL = 200 REL = 200 TLV = 200 Other= Skin Hazard ☐						
Cyclohexane	16.9	PEL = 300 REL = 300 TLV = 200 Other= Skin Hazard ☐						
Toluene	20.7	PEL = 200 REL = 100 TLV = 20 Other= Skin Hazard ☐						

FOR ADDITIONAL CHEMICALS, USE THE LEVEL 2 HASP CHEMICALS TABLE ATTACHMENT.
PEL = OSHA Permissible Exposure Limit - http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=9992
REL = NIOSH Recommended Exposure Limit - http://www.cdc.gov/niosh/npg/default.html
TLV = ACGIH Threshold Limit Value (Contact your Division H&S Leader for additional information on these values).
IDLH = Immediately Dangerous to Life or Health - http://www.cdc.gov/niosh/npg/default.html

Levels of Personal Protective Equipment (PPE) Required for each Task	Task Description	Level of PPE			
		A	B	C	D
Primary hazard control strategies, including elimination/avoidance, engineering controls, and/or administrative controls, must be documented for all tasks on task-specific JHAs, to be included as an attachment to this HASP. PPE is considered as the "last line of defense." **Signature of the H&S Team on Page 1 of this document signifies certification of PPE Hazard Assessment.**	Subsurface Clearance: Limited hazards identified. Consider using insect repellent.	☐	☐	☐	☒
	Drilling: Primary hazard control strategy will be to avoid underground utilities. Nitrile gloves will be used when handling soil. Consider using insect repellent.	☐	☐	☐	☒
		☐	☐	☐	☐
		☐	☐	☐	☐
		☐	☐	☐	☐
		☐	☐	☐	☐
		☐	☐	☐	☐

Personal Protective Equipment (PPE) based on identified tasks to be performed, as outlined in Scope of Work.

Req = Required PPE for one or more tasks to be performed; required on site at all times. PPE specific to each task must be outlined in detail on task-specific JHAs.

NA = Not applicable to this project

PPE	Req	NA	PPE	Req	NA
Steel Toe Boots	☒	☐	Hard Hat	☒	☐
Long Sleeve Shirt & Long Pants	☒	☐	Safety Glasses w/ side shields	☒	☐
Outer Disposable Boots	☐	☒	Chemical/impact-resistant Goggles	☒	☐
Tyvek Suit	☐	☒	Poly-Coated Tyvek	☐	☒
Fully Encapsulated Chemical Suit	☐	☒	Full-Face Respirator	☐	☒
Hearing Protection	☒	☐	Half-Face Respirator	☐	☒
Leather Gloves	☐	☒	Inner Chemical Gloves	☒	☐
Outer Chemical Gloves	☒	☐	Other (specify) High visibility safety vest	☒	☐

Training, Medical Surveillance, and Safety Supplies

Req = Requirements are based on specific tasks performed in the field and the type of environments, chemicals or hazards encountered.

NA = Not applicable to this project

*Provides specialized training over-and-above the 40-hour HAZWOPER training necessary to serve as an on-site manager supervising employees engaged in work covered by the HAZWOPER standard at 29 CFR 1910.120

**Physical examination requirements should be discussed with WorkCare well in advance of the start of work to allow adequate time to schedule examination requirements.

Training	Req	NA	Medical Surveillance**	Req	NA
40-hr HAZWOPER; current 8-hr refresher	☒	☐	Medical Clearance	☐	☒
8 Hour HAZWOPER Supervisor*	☐	☒	Respirator Clearance and Fit Test	☐	☒
Current CPR and First Aid	☒	☐	Blood Lead and ZPP	☐	☒
MSHA 40-hr New Miner and current 8-hr refresher	☐	☒	Other (specify)	☐	☐
ERM Field Safety Officer (FSO)	☒	☐	Other (specify)	☐	☐
DDD Practice FSO/DM	☐	☒	**Supplies**	**Req**	**NA**
Subsurface Clearance (SSC)	☒	☐	First Aid Kit	☒	☐
EPA Hazardous Waste	☐	☒	Eyewash Solution (capable of 15 minutes of eye flushing)	☐	☒
Hazmat/Dangerous Goods Shipping	☐	☒	Air Horn	☐	☒
International Traveler	☐	☒	Decontamination Supplies	☐	☒
Other (specify):	☐	☐	Fire Extinguisher	☐	☒
Other (specify):	☐	☐	Potable Water	☐	☒
Other (specify):	☐	☐	Toilets	☐	☒
Other (specify):	☐	☐	Other (specify):	☐	☐

Monitoring Equipment: All monitoring equipment on site must be calibrated per manufacturer specifications (including daily bump tests) and results recorded. Under stable site conditions, measurements must be made in the breathing zone at least once every 30 minutes.				
Instrument (Check all required)	**Task**	**Instrument Reading**	**Action Guideline**	**Comments**
☐ Combustible gas indicator model:	☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5	0 to 10% LEL	Monitor. Evacuate if confined space.	N/A
		10 to 25% LEL	Potential fire or explosion hazard.	
		>25% LEL	Fire/explosion hazard. Evacuate site.	
☐ Oxygen meter model:	☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5	>23.5% Oxygen	Fire hazard. Evacuate site.	N/A
		23.5 to 19.5% Oxygen	Normal oxygen levels.	
		<19.5% Oxygen	Oxygen deficient conditions. Evacuate site.	
☐ Radiation survey meter model:	☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5	Normal background	Proceed with normal operations.	Annual exposure not to exceed 1250 mrem per quarter. Background reading must be taken in area known to be free of radiation sources.
		Three times background	Notify Radiation Safety Officer.	
		>Three times background	Radiological hazard. Evacuate site.	
☐ Photoionization detector model: ☐ 11.7 eV ☒ 10.6 eV ☐ 10.2 eV ☐ 9.8 eV ☐ _____ eV Level A-D PPE Requirements	☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5	Any response below _____ ppm, sustained for 1 minute	Level "D" is acceptable up to the action level. For response above established background level(s), appropriate level PPE requirements must be met.	The action level for upgrading the level of protection is typically one-half of the lowest published exposure limit identified for the potential COCs at the site. For COCs with extremely low exposure limits (e.g., < 5 ppm), contact your Division H&S Leader or for guidance on action levels. Respirator selection should be based on the Assigned Protection Factor (APF) and the Maximum Use Concentration (MUC). To determine the appropriate respirator selection, the following contaminant information must be known: • Permissible Exposure Limit (PEL) or other published Exposure Limit (note that the lowest published exposure guideline should be used to establish action levels) • Short-term Exposure Limit • Ceiling Limit • Peak Limit • Any other exposure limit for the hazardous substance Contact your Division H&S Leader or Project Health and Safety Consultant for assistance in defining the APF and MUC, as necessary, as well as any time upgrading of respiratory protection is required based on established action levels.
		_____ ppm to _____ ppm, sustained for 1 minute	Level "C" is acceptable as appropriate.	
		Greater than _____ ppm above background, sustained for 1 minute	Stop work. Tasks requiring Level B or Level A PPE are not anticipated during this project. If Level B or Level A PPE is needed, as determined by the FSO and/or the PM, the Division H&S Leader will be notified and the HASP will be revised.	

Instrument (Check all required)	Task	Instrument Reading	Action Guideline	Comments
☐ Flame ionization detector model:	☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5	Any response above background to _____ ppm above background, sustained for 1 minute	Level "D" is acceptable up to the action level. For response above established background level(s), appropriate level PPE requirements must be met.	The action level for upgrading the level of protection is one-half of the lowest published exposure limit identified for the potential COCs at the site. Respirator selection should be based on the Assigned Protection Factor (APF) and the Maximum Use Concentration (MUC). To determine the appropriate respirator selection, the following contaminant information must be known: • Permissible Exposure Limit (PEL) or other published Exposure Limit • Short-term Exposure Limit • Ceiling Limit • Peak Limit • Any other exposure limit for the hazardous substance Contact your Division H&S Leader or Project Health and Safety Consultant for assistance in defining the APF and MUC, as necessary.
		_____ ppm above background to _____ ppm above background, sustained for 1 minute	Level "C" is acceptable as appropriate.	
		Greater than _____ ppm above background, sustained for 1 minute	Stop work. Tasks requiring Level B or Level A PPE are not anticipated during this project. If Level B or Level A PPE is needed, as determined by the FSO and/or the Project Health and Safety Consultant, the Division H&S Leader will be notified and the HASP will be revised.	
☐ Detector tube models:	☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5	Specify:	Specify:	
☐ Other (specify):	☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5	Specify:	Specify:	

Work Zones **If exclusion zones are necessary because of chemical and/or equipment hazards. Describe the set-up of these zones. Include landmarks, dimensions as necessary, equipment vs. personnel decontamination zones**	Exclusion Zone: Cordon off work area with cones and caution tape as needed
	Contamination Reduction Zone: N/A
	Support Zone: N/A
Site Access/Control **Describe procedures for limiting unauthorized entry to the work zone(s). Are there any security requirements?**	Access Control Procedures: N/A
Decontamination Procedures **Describe procedures for decontamination of personnel and equipment.**	Personnel: Wash hands after sampling.
	Equipment: Sink, soap, water.

Emergency Response Planning	ALL WORK-RELATED INCIDENTS MUST BE REPORTED. FOR ALL MEDICAL EMERGENCIES, CALL 911 OR THE LOCAL EMERGENCY NUMBER.
In the pre-work briefing and daily tailgate safety meetings, all onsite employees will be trained in the provisions of emergency response planning, site communication systems, and site evacuation routes. Note that clients may have their own procedures which may need to be followed. **Signal a site emergency or medical emergency with three blasts of a loud horn (car horn, fog horn, or similar device).** **To complete this section, attach a hospital route map to the HASP.**	**For ALL non-emergency incidents resulting in injury or illness, you must:** • Give appropriate first aid care to the injured or ill individual and secure the scene. • Immediately notify the Project Manager and/or Partner-in-Charge. • Immediately call WorkCare Incident Intervention at (888) 449-7787 (available 24 hours/7 days per week) (US only). • Clients may have their own procedures which we may need to follow. • Enter the event into the ECS within 24 hours. **In the event of an emergency that necessitates evacuation of the work task area or the site as a whole, the following procedures shall occur:** • The ERM FSO will contact all nearby personnel using the onsite communications system to advise of the emergency. • Personnel will proceed along site roads to a safe distance upwind from the hazard source. • Personnel will remain in that area until the site safety contact or other authorized individual provides further instruction. **In the event of a severe spill or leak, site personnel will follow the procedures listed below:** • Evacuate the affected area and relocate personnel to an upwind location. • Inform the ERM FSO, an ERM office, and a site representative immediately. • Locate the source of the spill or leak, and stop the source if it is safe to do so and appropriately trained personnel are onsite to do so. • Begin containment and recovery of spilled or leaked materials. • Notify appropriate local, state, and federal agencies after obtaining client consent to do so. **In the event of severe weather, site personnel will follow the procedures listed below:** • Site work shall not be conducted during severe weather, including high winds and lightning. • In the event of severe weather, stop work, lower any equipment (drill rigs), and evacuate the affected area.

Client Specific Emergency Response	Contributing factors initiating emergency response (process, material, weather)
In the event of an emergency, client specific emergency response procedures may take precedent over ERM established procedures.	Lights and/or sounds associated with evacuation
While engaging in field related activities on an active client site, measures they have in place to signal either emergency response or evacuation need to be reviewed and documented.	Drill requirements for contractors on-site
Once completed, this summary, along with evacuation map(s), should be discussed with all visitors, subcontractors and others subject to HASP review upon site visit.	Initial and alternative muster points
	Map associated with evacuation
	Specific evacuation procedures
	How does contractor account for all site visitors
	PPE and Spill Kit requirements (if emergency response is spill related)

Emergency Contacts	Name	Location	Phone	Cell Phone
Hospital (attach map)	Alamance Regional Medical Center	1240 Huffman Mill Rd, Burlington, NC	336-228-0254	
Police	Elon Police Department	104 S Williamson Ave, Elon, NC	336-584-1301	
Fire	Elon Fire Department	219 S. Williamson Avenue, Elon, NC	336-584-9190	
Project Manager	Lane Dorman	Raleigh, NC	919-233-4501	770-364-9002
Field Manager (if not PM)	Greg Kanellis	Raleigh, NC	919-233-4501	919-745-7197
Field Safety Officer (if not PM)	Greg Kanellis	Raleigh, NC	919-233-4501	919-745-7197
Division H&S Contact	Millard Griffin	Atlanta, GA	678-486-2700	678-294-8658
Alternate H&S Contact	Don Hall	Atlanta, GA	678-486-2700	704-472-3727
Americas Region H&S Contact	Mark Hickey	Denver, CO	720-200-7172	720-625-2869
Incident Intervention (US Only)	WorkCare	NA	888-449-7787	NA
SSC Experienced Person	Tom Naumann	Raleigh	919-233-4501	404-483-3093
Subcontractor Safety Contact(s)	N/A			
Client Site Contact	Jimmy McCandies	Whitsett	336-449-7707	336-380-5645

Acknowledgement	***I have read, understood, and agree with the information set forth in this Health & Safety Plan, and will follow guidance in the plan and in the ERM North America Health and Safety manual. I understand the training and medical monitoring requirements for conducting activities covered by this WARN HASP and have met these requirements.*** ***ERM has prepared this plan solely for the purpose of protecting the health and safety of ERM employees. Subcontractors, visitors, and others at the site are required to follow provisions in this document at a minimum, but must refer to their organization's health and safety program for their protection.***		
Printed Name	Signature	Organization	Date

Approval Signatures **Signatures in this section indicate the signing employee will comply with and enforce this WARN HASP, as well as procedures and guidelines established in the ERM NA H&S. Signatures in this section also indicate that any subcontractors performing work under contract to ERM have met the minimum safety standards in the ERM Subcontractor Prequalification Process.**	Project Manager Lane Dorman	Date:
	Partner in Charge Thomas Wilson	Date:

Check all appropriate documents to be attached to this HASP.	☒ Site-specific JHAs for all tasks (including subcontractors) ☐ SDS/CSDC for all chemicals brought to site and all chemicals suspected/confirmed in site media ☒ SSC Project Plan ☒ Map of Route to Hospital/Emergency Services ☐ High-Hazard Work Procedures: Type: ☐ High-Hazard Work Permits: Type(s): ☐ Facility site map(s) ☒ Tailgate Safety Meeting Forms ☐ Air Monitoring and Equipment Calibration Forms ☐ SOS (See-Own-Share) Field Cards ☐ Emergency Drill Forms ☐ OFP Contractor Leaflet ☐ Risk Assessment Checklists ☐ Health & Safety Guidance Documents: List: ☐ Client specific requirements ☐ Travel Risk Assessment (TRA) ☐ PLAN Risk Assessment ☐ Field Audit Forms ☐ PM H&S Checklist ☒ Vehicle Safety Checklist ☐ IH Sampling Data Sheet ☐ Other (specify): ☐ Other (specify):

See It – Own It – Share It	Stop Work Authority
It means that: • **We know that we have a responsibility to look out for each other, to intervene when necessary, to be proactive and to help keep safety issues from becoming problems.** • **We also look out for ourselves. If we recognize that a situation is unsafe, we are expected to stop what we're doing, reassess the situation and consult with others if necessary before proceeding safely.** • **We assign no blame to anyone who raises safety issues.** • **We strive to learn lessons from the large and small events that are part of our daily experience.**	**It is ERM policy that all ERM and ERM Subcontractor employees have the authority, without fear of reprimand or retaliation to:** • **Immediately stop any work activity that presents a danger to the site team or the public.** • **Get involved, question and rectify any situation or work activity that is identified as not being in compliance with the HASP or with broader ERM health and safety policies.** • **Report any unsafe acts or conditions to supervision or, preferably, intervene to safely correct such acts or conditions themselves.**

Revision Log	Date	By	Notes
	2/11/2013	S Perkins / M Griffin	Merged standard / intrusive L2 formats into single document. Revisions to include full HAZWOPER compliance, DDD practice applicability, and user feedback.
	5/2013	M. Griffin	Added additional user feedback.

ATTACHMENTS

Community Health Protection

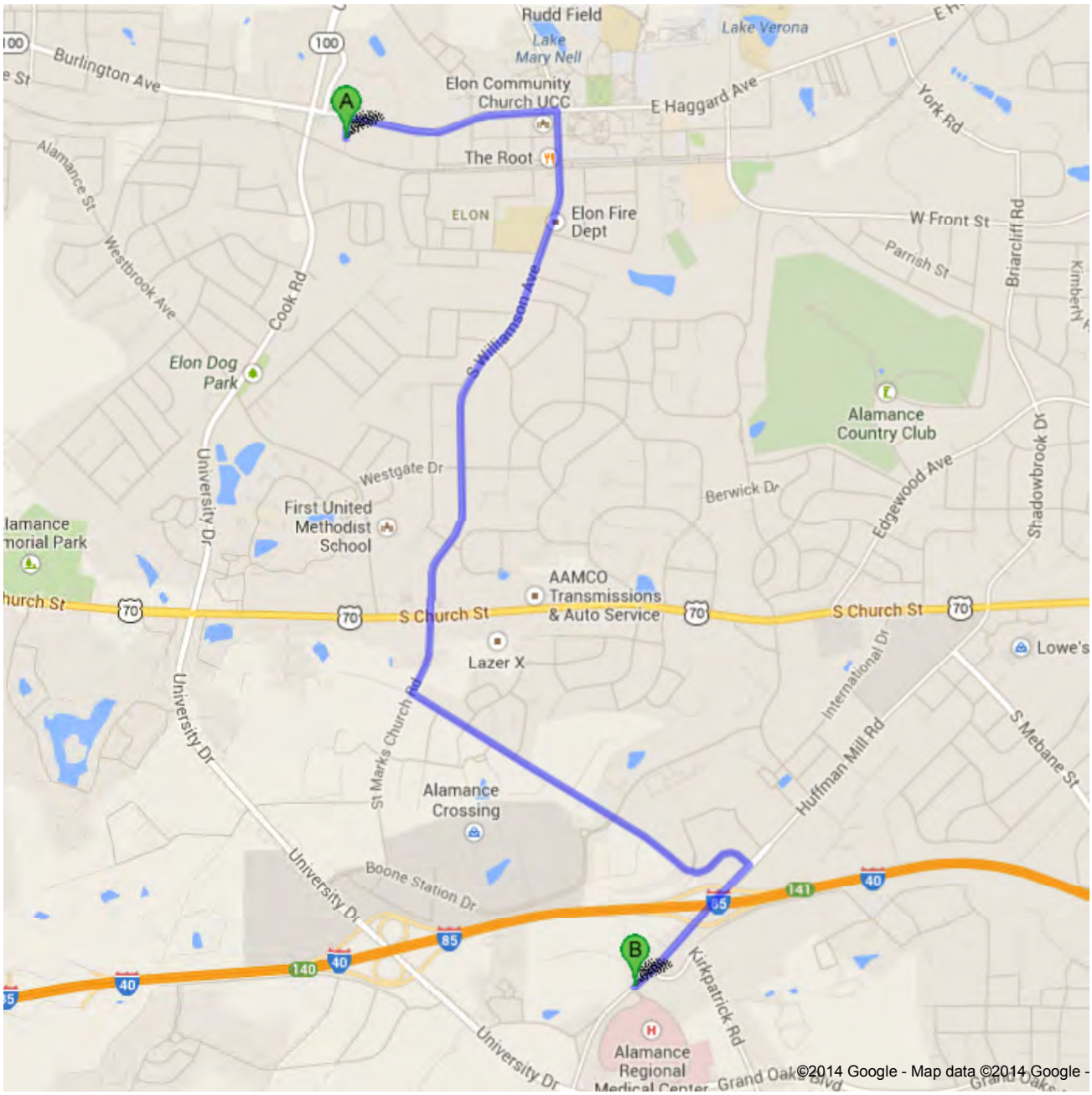
There will be little risk or disruption to the community during the implementation and progression of the activities; however, measures to protect the community and site workers from exposure will be taken. All work areas are located within the Site property boundaries. No unauthorized personnel will be permitted in the work areas. The Field Safety Officer will demarcate work zones and control work zone access.

It is very unlikely that airborne dust will be generated by the activities; however the FSO will visually monitor for fugitive dust emissions, document observations and implement dust control measures, as needed.

Vehicular traffic associated with the activities is minimal and will consist of construction trucks or normal passenger vehicles. Traffic will use the same ingress and egress routes as the site's existing truck traffic. Vehicular traffic operations are expected to be limited to normal daytime working hours. This additional traffic is not expected to negatively impact the surrounding community.

Decontamination procedures and containerization of investigation-derived hazardous waste will be performed to protect the public and the environment. Vehicles and equipment will be decontaminated prior to leaving the Site.

Directions to 1240 Huffman Mill Rd, Burlington, NC 27215
4.4 mi – about **10 mins**



100 Rego Dr, Elon, NC 27244

	1. Head **north** on **Rego Dr** toward **W Haggard Ave**	go 367 ft total 367 ft
	2. Turn right onto **W Haggard Ave** About 2 mins	go 0.7 mi total 0.7 mi
	3. Turn right onto **N Williamson Ave** About 3 mins	go 1.7 mi total 2.4 mi
	4. Continue onto **State Rd 1301/St Marks Church Rd**	go 0.3 mi total 2.7 mi
	5. Turn left onto **State Rd 1308/Garden Rd** Continue to follow Garden Rd About 3 mins	go 1.2 mi total 3.9 mi
	6. Turn right onto **Huffman Mill Rd** Destination will be on the left About 1 min	go 0.5 mi total 4.4 mi

1240 Huffman Mill Rd, Burlington, NC 27215

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

Map data ©2014 Google

Directions weren't right? Please find your route on maps.google.com and click "Report a problem" at the bottom left.

Subsurface Clearance Field Process Checklist

Site/Project Name: _____

Client: _____

ERM Project No.: _____

SSC Exp. Person: _____

Project Information Utilized for Field SSC Activities	Yes	No	N/A	Comments
Contact Person requested and identified				
Subcontractors prequalified and approved				
ERM / client SSC requirements have been communicated to all field personnel (including subcontractors)				
As-built drawings, site plans, aerial photographs, and/or other information sources available and reviewed				
Site Plan(s) / Drawing(s) developed showing subsurface lines/structures, Critical Zones, and planned Ground Disturbance Locations				
SSC Experienced Person with current SSC training assigned				
Project staff with current SSC training assigned				
UXO / MEC risks assessed: UXO / MEC is present or potentially present				If Yes, stop work and contact PIC

General Field Activity & Site Walk	Yes	No	N/A	Comments
HASP available, reviewed, and signed by project team				
Site walk Visual Clues / site features (below) integrated into Site Services Model				

Identified Visual Clue	Yes	No		Identified Visual Clue	Yes	No
Lights				Pipeline markers		
Signage				Fire hydrants		
Sewer drains / cleanouts				Sprinkler systems		
Cable markers				Water meters		
Utility poles with conduit leading to the ground				Natural gas meters		
Utility boxes				UST fill ports and vent pipes		
Manholes				Equipment locations		
Pavement scarring				Steam lines		
Distressed vegetation or vegetation in linear pattern				Remote buildings with no visible utilities		

Comments / Others:

Contact Person Approval of Ground Disturbance at All Locations (indicate verbal approval by printing "Verbal" in the signature space)

Name (Print)	Company	Name (Sign)	Date / Time

Utility Markouts	Yes	No	N/A	Comments
Public Utility Markouts completed (where available; waiver required if "NO")				
List utilities notified:				
Responses received from ALL companies notified?				
Private Utility Markout completed (waiver required if "NO")				
Performed by:				
Type of equipment/methods used:				
Note any limitations (e.g., sources of interference, geology, etc.):				
Final Critical Zone determinations made by the SSC EP				

Subsurface Clearance Field Process Checklist

Site/Project Name: _____

Client: _____

ERM Project No.: _____

SSC Exp. Person: _____

Critical Zones		
Are there any ground disturbance locations known or suspected to be inside Critical Zones?	☐	**Yes.** PIC and BU MP (or designee) must BOTH grant waiver for work within the Critical Zone. The SSC Location Disturbance Permit or equivalent is required for those locations.
	☐	**No.** Physical Clearance will proceed to the deeper of: 0.6 m / 2 feet below the frost line or 1.5 m / 5 feet below ground level, whichever is deeper.

Overhead Clearance	Yes	No	N/A	Comments
Overhead utility lines in the general vicinity of ERM work onsite?				
If overhead utilities are present, has nominal voltage been determined? If yes, list in comments section.				Voltage:
Overhead clearances confirmed with equipment operators for safely deploying equipment to the location? (The minimum horizontal distance from any point on the equipment to the nearest overhead electrical power line should adhere to the minimum clearance requirements stipulated by regulation, utility companies, client requirements, and/or industry best practice.)				Clearance distance(s):
Proximity alarms and /or spotters necessary to ensure safe clearances?				
If the equipment is closer than the minimum clearance distance to the overhead utility, can utility be de-energized via formal lockout/tagout (LOTO) program?				
If utility cannot be de-energized, alternate plan developed with approval from the PIC and client/site owner?				

Clearance for Point Disturbances	Yes	No	N/A	Comments
Physical Clearance technique used (waiver required if no Physical clearance performed)				Specify:
Diameter of physical clearance at least 125% larger than outside diameter of largest downhole tool (150% is best practice)				
Physical Clearance successfully completed at all locations				

Clearance for Excavations	Yes	No	N/A	Comments
Communicate excavation plan and Excavation Buffer location(s) to subcontractor. Delineate excavation buffers.				
There are disturbance locations known or suspected to be inside Critical Zones				
De-energize subsurface services via formal LOTO program prior to beginning excavation				

Additional Notes:

SSC Process Completed By (SSC Experienced Person)		
Name (Print)	Name (Sign)	Date / Time

ERM Vehicle Safety Form

(Required for ERM-Owned,Leased, Rented, Personal Vehicles Used in Field Site Projects)

Date	Operator	Project#
Vehicle Make/Model Lic#		Company Vehicle? ☐ Y ☐ N

I. Inspection	**Before Driving:**			**After Driving:**			
	OK	**Deficient**	**N/A**	**OK**	**Deficient**	**N/A**	**Comments**
<u>Daily</u> for All ERM Owned, Long Term Lease and Rentals, and Personal Vehicles used as <u>Part of Work at a Job Site</u> (not for simple commuting to a site) – These vehicles are part of our "project equipment", reflect on ERM, and should not be potential causes of incidents.							
Tires – condition/tread	☐	☐	☐	☐	☐	☐	
Tires – air pressure	☐	☐	☐	☐	☐	☐	
Jack/spare tire	☐	☐	☐	☐	☐	☐	
Headlights	☐	☐	☐	☐	☐	☐	
Tail Lights	☐	☐	☐	☐	☐	☐	
Brake lights	☐	☐	☐	☐	☐	☐	
Turn signals	☐	☐	☐	☐	☐	☐	
All glass and mirrors	☐	☐	☐	☐	☐	☐	
Windshield wipers	☐	☐	☐	☐	☐	☐	
Body damage	☐	☐	☐	☐	☐	☐	
Overall vehicle cleanliness	☐	☐	☐	☐	☐	☐	
Fuel	☐	☐	☐	☐	☐	☐	☐ **E** ☐ **¼** ☐ **½** ☐ **¾** ☐ **F**
Parking brake	☐	☐	☐	☐	☐	☐	
Horn	☐	☐	☐	☐	☐	☐	
Steering wheel play	☐	☐	☐	☐	☐	☐	
Light Switch	☐	☐	☐	☐	☐	☐	
Brakes	☐	☐	☐	☐	☐	☐	
Under vehicle – leaks/obstructions	☐	☐	☐	☐	☐	☐	
Reverse warning	☐	☐	☐	☐	☐	☐	

ERM – <u>Monthly</u> for ERM-Owned Vehicles/ Long Term Leased Vehicles Used as Part of Work at Job Site				
Engine oil	☐	☐	☐	Comments
Coolant level	☐	☐	☐	Comments
Transmission level	☐	☐	☐	Comments
Hydraulic oil	☐	☐	☐	Comments
Battery	☐	☐	☐	Comments
Belts/hoses	☐	☐	☐	Comments
Misc. vehicle performance (shimmy, vibrations, noises loose parts, etc. – requires comment)	☐	☐	☐	Comments

II. Trip Planning

1. Travel route					Have map directions? ☐ Y ☐ N	
2. Weather conditions	☐ Rain	☐ Sleet/snow	☐ Fog	☐ Wind	☐ Unpaved	☐ Night ☐ Urban/traffic
3. Equipment secured?	☐ Y ☐ N ☐ N/A			Heavy/awkward loads? ☐ Y ☐ N ☐ dolly/assistance		
5. Communication with office	☐ Beginning of day		☐ End of day		☐ Other:	
6. Basic H&S supplies/equipment	☐ First aid kit		☐ Fire exting.		☐ reflective safety vest	☐ 2-way radio
	☐ Means of roadside warning (flare, etc.)				☐ camera	☐ flashlight

III. Safety Reminders

1. Drive defensively - scan road ahead and anticipate actions of other drivers.
2. Seat belts worn by all passengers at all times.
3. Adjust seat / mirrors / headrest / steering wheel and ensure clean windows with no obstructions; Secure loose items.
4. Eliminate distractions - limit mobile phone use while driving (forbidden by certain clients, states, countries, regions).
5. Obey all posted traffic signs / signals.
6. Maintain safe following distance - use "3-second rule."
7. Adjust speed / driving habits for adverse road/weather conditions.
8. Limit backing up; look behind vehicle for traffic / pedestrians / parked vehicles / objects.
9. Watch for pedestrians / cyclists / construction crews.
10. Check mirrors frequently; stay out of other drivers' blind spots.
11. Use signals prior to turns and lane changes.

Daily Safety Meeting Documentation Form

Project Name: Project Number: Meeting Date & Time: Meeting Leader:

Document Routing	
FSO	Retain copy in site health & safety file.

What work will be conducted on site today and by whom?

Work Task	Conducted By

What overlapping operations/simultaneous operations will occur today?

Any follow-up from previous Major Incidents, Near Misses, Unsafe Acts or Unsafe Conditions discussed today?

List any new / short-service personnel on site today?

Safety Meeting Core Topics – All Site Workers *and* Visitors

- ☐ What PPE is required in order to enter the work zone?
- ☐ What are the potential hazards associated with today's work. How will they be managed?
- ☐ What are the potential impacts of planned activities to: Visitors? Nearby workers? Public?
- ☐ Is everyone aware that they are empowered to stop work if something is questionable or unsafe?
- ☐ What happens and who do you contact if there is an injury or emergency? If working at an active facility, how will you be alerted of an emergency and what will you do?
- ☐ Who do you contact if you have questions, or before deviating from written procedures?
- ☐ Where is fire extinguisher, first aid kit, eyewash, safety shower located?
- ☐ Are any work permits required? Are permits completed and posted in plain view of workers?
- ☐ Have all excavation / borehole locations been cleared of underground utilities/structures, in accordance with ERM and client-specific subsurface clearance procedures?
- ☐ Have all tools / equipment / vehicles been inspected today to ensure safe operating condition?
- ☐ Will a follow-up safety meeting be conducted after lunch?
- ☐ Has anything unexpected or out-of-the-ordinary occurred on this job recently to share?
- ☐ What is the worst that could happen if something goes wrong today?

Daily Safety Meeting Documentation Form

Project Name:
Project Number:
Meeting Date & Time:
Meeting Leader:

Safety Topics Related to ERM 2011/2012 Incident Trends – All Site Workers *and* Visitors

- ☐ What activities occurring today could result in hand injuries? Is everyone aware that the use of fixed open-blade knives is not permitted without cut-resistant gloves?
- ☐ Does the site pose natural hazards to be avoided? Thorny underbrush/ticks/poison ivy?
- ☐ What areas of the site have slip/trip/fall hazards? Are everyone's work boots in good shape?
- ☐ How will the on-site team avoid vehicle accidents? Is everyone aware that taking their eyes off the road for more than 2 seconds (for any reason) leads to vehicle accidents?

Who attended the safety meeting today (employees, subcontractors, visitors)?

Name	Company	Signature	Sign-In Initials*	Sign-Out Initials**

* Initials in this space verify that the employee is fit for performing work.
**Initials in this space verify that the employee was uninjured during the workday.

Who visited the site today but was not involved in work activities?

Name	Company	Arrival Time